

N.S.E.

THE FEBRUARY 1936

# RADIO INDEX

The All-wave DX Log of the World



25<sup>c</sup>

A Mystery Radio Contest

All Hours on the Air for All Stations

The Most Nearly Complete List of  
Short Wave Stations Published

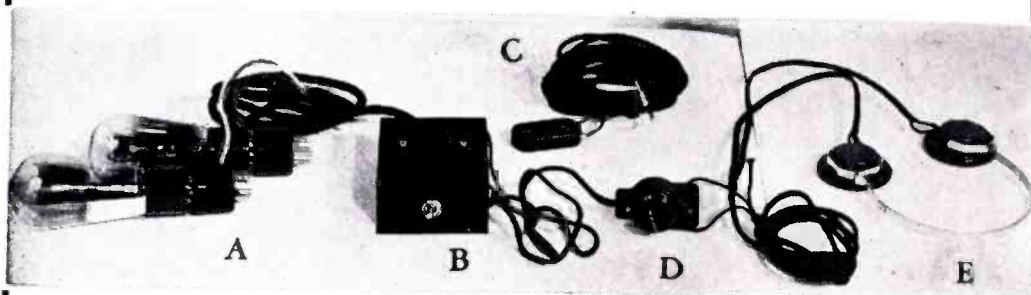
No. 96

# 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.



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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.

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Adapter with 2000-ohm phones .....	6.70
Adapter with the very best "Featherweight" 24,000-ohm phones .....	12.00

All prices postpaid

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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**



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- ★ nerve-cracking seconds—a hundred thousand voices
- ★ proclaiming new champions. National anthems flung
- ★ to the breeze where float the banners of a hundred
- ★ nations strong!
- ★ Make sure you hear it all at its best—direct from
- ★ Reich Sport Field—with the magnificent new 23-
- ★ tube SCOTT Full Range Hi-Fidelity AllWave.

Travel on—if you're a dyed-in-the wool DXer burning the midnight oil of Aladdin's Lamp! Cross the hemispheres — at a turn of the dial! Australia — Argentine — Indo-China — Japan — Russia — dozens upon dozens of foreign stations! Remote stations you've never heard before — leaping into bright reality with a volume, a cleavage through adjacent stations, a quartz-brilliant clarity not even approached by any other radio in the world!

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February 1, 1936



# RADIO INDEX

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TWELFTH YEAR

NUMBER 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

**D**URING 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

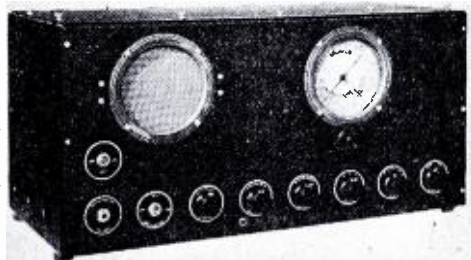
that every contestant *prove* that he heard each broadcaster which he reports. As we have said, five points will be given for each station so identified.

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. Tomlinson 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,



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

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

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



**T**HROUGH the co-operation of the General Electric Co. and their short-wave station W2XAF, 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

**T**HE 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, I. D. A.

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 DXing 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.

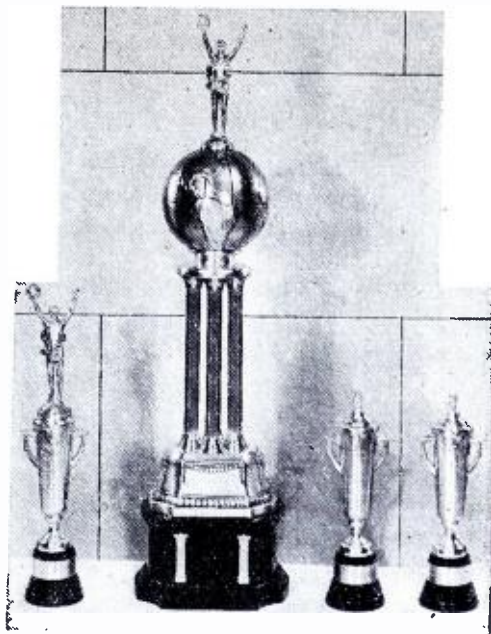
Simultaneously with the change into an all-wave organization, the I. D. A. became one of the world's most popular radio clubs and members from all sections of the globe began to enroll. Certain entrance requirements for short wave listeners were made part of our by-laws.

### 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

**I**N 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 other 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; LRS, 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 IDA.*

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.

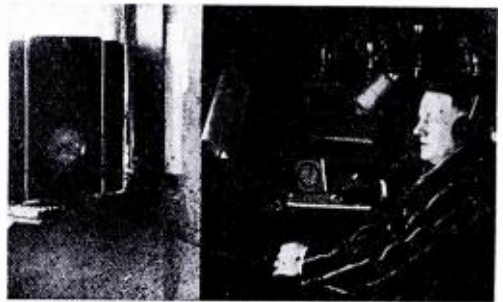
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*The manufacturers of the Raytheon tubes have kindly offered a set of renewal tubes as a prize in the Mystery Contest.*

**I**N 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 overseas 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 CRBC 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

**T**HE 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-

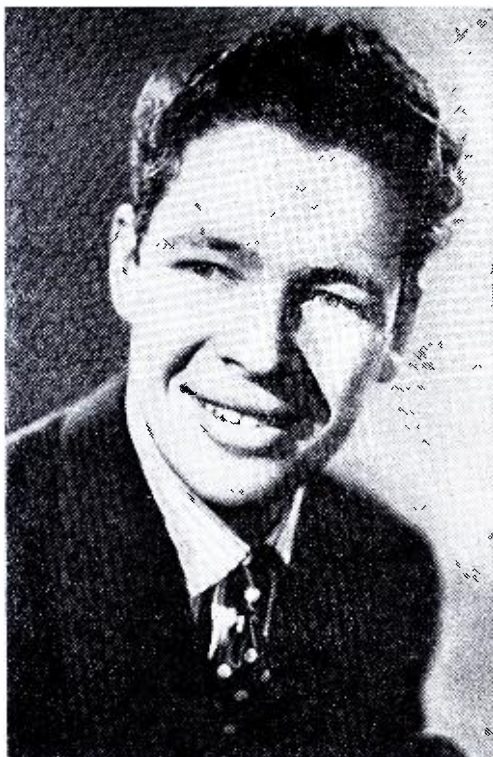
try transmitters is going right ahead. The British Broadcasting Corporation writes, "It is hoped that the year 1936 will witness still further developments in our short-wave broadcasting service. Contracts have already been let by the BBC for two new shortwave transmitters of high power to be erected 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. Propietarios (owners), Cesar y Mario Arango M., Perelra, 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-stooge 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 Oceanic," 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 multilingual 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 identified 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

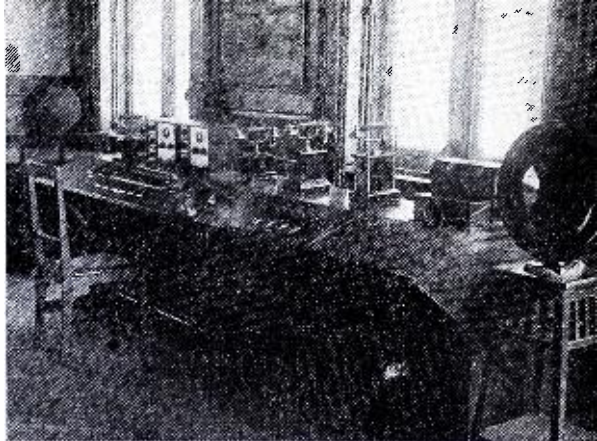
phones are about the best ones at the present time.

"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 H11S, 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 W1OXFH, 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

**F**ROM 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 preselector 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 peeps 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

**P**ROBABLY 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; FFZ, 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 over-lap 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, Blooming-

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 Wolford Collegé, 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 interstation 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 falling 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		
590	WOW	Omaha, Nebr., 1000 to 5000
630	CJGX	Yorkton, Sask., 500 to 1000
1210	WGCM	Gulfport, Miss., 500 to 100
1290	WNEL	San Juan, P. R., 500 to 1000
1370	WAGF	Dothan, Ala., 100 to 250
1380	CMBX	Havana, Cuba, 150 to 500
1460	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 WB80
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

600	FJC	Noumea, New Caledonia, .6 kw.
900	....	Shanghai, China, .5 kw.
1050	JOHG	Kagoshima, Japan, .5 kw.
1060	JOIG	Toyama, Japan, .5 kw.
1185	....	Nice-Corse, France, 60. kw.
1249	....	Saarbrucken, Germany, .7 kw.
1310	XLIP	Suchow, 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	....	Marseille, France, 5000 to 1600
760	XLHJ	Shanghai, China, 15 to 100
950	XGOP	Peiping, China, 280 to 300
968	....	Bordeaux, France, 1000 to 3000
990	XGOD	Hangchow, China, 1000 to 2000
1068	....	Paris, France, 2000 to 800
1300	OAX4C	Lima, Peru, to 1000
1398	....	Radio-Lyons, France, 5000 to 25,000
1456	....	Eiffel Tower, France, 5900 to 20,000

### FREQUENCIES

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

### LOCATION

720	CW9	Colonla, Uruguay, from Brazil
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### CALLS

880	YV3RC	from YV2RC
1270	XLIH	from XDYF

### DELETE

580	....	Lisbon, Port.
620	ZEK	Hong Kong
1429	....	Beziers
....	....	Radio L.L., Paris
1450	XOMO	Peiping

## 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

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 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	WOKO 1430	Albany, N. Y.	
	WMBR 1370	Jacksonville, Fla.	
2:50-3:10	WCAX 1200	Burlington, Vt.	
	WOPI 1500	Bristol, Tenn.	
3:00-3:20	KTRH 1290	Houston, Texas	
	WMBO 1310	Auburn, N. Y.	
	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.	
	KNBR 1430	Memphis, Tenn.	
3:30-3:50	WFPV 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.
	KCRJ 1310	Jerome, Ariz.
	KMLB 1200	Monroe, La.
4:20-4:40	KLUF 1370	Galveston, Tex.
	WDEF 550	Waterbury, Vt.
	KGDM 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.
	KRE 1370	Berkeley, Calif.
4:50-5:10	WJBR 1420	Gastonia, N. C.
	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	WFBG 1310	Altoona, Pa.
2:40-3:00	WMBG 1210	Richmond, Va.
2:50-3:10	WBRB 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	Scranton, Pa.
4:20-4:40	WRAR 1420	Parkersburg, W. Va.	3:10-3:30	KFYO 1310	Lubbock, Tex.
	KRMD 1310	Shreveport, La.		WGL 1370	Fort Wayne, Ind.
	WCLO 1200	Janesville, Wisc.		WLEU 1420	Erie, Pa.
	KFIO 1120	Spokane, Wash.	3:20-3:40	KGFI 1500	Corpus Christi, Tex.
4:30-4:50	WSYR 570	Syracuse, N. Y.		WIBU 1210	Poynette, Wisc.
	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.
4:40-5:00	WBNF 1500	Binghamton, N. Y.	3:40-4:00	KGGM 1230	Albuquerque, N. M.
	KFJM 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.
4:50-5:10	WGH 1310	Newport News, Va.	4:00-4:20	KGHI 1200	Little Rock, Ark.
	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.
5:00-5:20	WWSW 1500	Pittsburgh, Pa.		WJIM 1210	Lansing, Mich.
	WSPD 1340	Toledo, Ohio	4:20-4:40	KJBS 1070	San Francisco, Calif.
	KMED 1310	Medford, Ore.		KGKB 1500	Tyler, Texas
	WSAY 1210	Rochester, N. Y.		WBOW 1210	Terre Haute, Ind.
5:10-5:30	KNET 1420	Palestine, Texas	4:30-4:50	KGU 750	Honolulu, T. H.
	WAVE 940	Louisville, Ky.		KGKL 1370	San Angelo, Tex.
	KAST 1370	Astoria, Ore.		WCBS 1420	Springfield, Ill.
5:20-5:40	KWKC 1370	Kansas City, Mo.	4:40-5:00	KSUN 1200	Lowell, Ariz.
	WXYZ 1240	Detroit, Mich.		WDAH 1310	El Paso, Texas
	KFJI 1210	Klamath Falls, Ore.		WTMV 1500	E. St. Louis, Ill.
5:30-5:50	KIDW 1420	Lamar, Colo.		KHSL 950	Chico, Calif.
	WGAR 1450	Cleveland, Ohio	4:50-5:10	WHBF 1210	Rock Island, Ill.
	KGCX 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.

**Wednesday Mornings**

**February 12**

2:00-2:20	WMFJ 1420	Daytona Beach, Fla.
2:10-2:30	WAIM 1200	Anderson, S. C.
2:20-2:40	KVOL 1310	Lafayette, La.
2:30-2:50	WHBQ 1370	Memphis, Tenn.
2:40-3:00	WKAQ 1240	San Juan, P. R.
2:50-3:10	WSJS 1310	Winston-Salem, N. C.
3:00-3:20	KABR 1420	Aberdeen, S. D.
	WFAM 1200	South Bend, Ind.
	WMFD 1370	Wilmington, N. C.
3:10-3:30	KLCN 1290	Blytheville, Ark.
	WPAX 1210	Thomasville, Ga.
3:20-3:40	KFPL 1310	Dublin, 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.
	WDZ 1020	Tuscola, Ill.
5:10-5:30	KELD 1370	El Dorado, Ark.
5:20-5:40	KDLR 1210	Devils Lake, N. D.

**Thursday Mornings**

**February 13**

2:00-2:20	WWSV 1370	Buffalo, N. Y.
2:10-2:30	WKOK 1210	Sunbury, Pa.
2:20-2:40	WRWA 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	WSBY 1500	Rutland, Vt.
3:00-3:20	KICA 1370	Clovis, N. M.
	WEBQ 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.
	WIBX 1200	Utica, N. Y.
3:30-3:50	KUOA 1260	Fayetteville, Ark.
	WHDF 1370	Calumet, Mich.
	WAGM 1420	Presque Isle, Me.
3:40-4:00	KIUJ 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.
	WCMJ 1310	Ashland, Ky.
4:10-4:30	WLBF 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	KGDE 1200	Fergus Falls, Minn.
5:00-5:20	KIUN 1420	Pecos, Texas
5:10-5:30	KGKE 1200	Sterling, Colo.
5:20-5:40	KMAC 1370	San Antonio, Tex.
5:30-5:50	WIL 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 1370	Decatur, Ala.
2:20-2:40	WBOC 1210	Charlotte, N. C.
2:30-2:50	WTJS 1310	Jackson, Tenn.

2:40-3:00	WSIX	1210	Springfield, Tenn.				
2:50-3:10	WROL	1310	Knoxville, Tenn.	4:10-4:30	KFQD	780	Anchorage, Alaska
3:00-3:20	KOTN	1500	Pine Bluffs, Ark.		KONO	1370	San Antonio, Texas
	WQAM	560	Miami, Fla.		WKBZ	1500	Muskegon, Mich.
3:10-3:30	KWYO	1370	Sheridan, Wyo.	4:20-4:40	KVOS	1200	Bellingham, Wash.
	WCLS	1310	Joliet, Ill.		KTSM	1310	El Paso, Texas
	WPRP	1420	Ponce, P. R.	4:30-4:50	KRLC	1420	Lewiston, Idaho
3:20-3:40	KGCU	1240	Mandan, N. D.		KWEA	1210	Shreveport, La.
	WHBY	1200	Green Bay, Wisc.	4:40-5:00	KUJ	1370	Walla Walla, Wash.
	WNEL	1290	San Juan, P. R.		KCMC	1420	Texarkana, Ark.
3:30-3:50	KXYZ	1440	Houston, Texas	4:50-5:10	KRNR	1500	Roseburg, Ore.
	WKBV	1600	Richmond, Ind.		KWTN	1210	Watertown, S. D.
	WAML	1310	Laurel, Miss.	5:00-5:20	KVL	1370	Seattle, Wash.
3:40-4:00	KRGV	1260	Westaco, Texas		KGGF	1420	Shawnee, Okla.
	WJBL	1200	Decatur, Ill.	5:10-5:30	KIT	1310	Yakima, Wash.
	WPFB	1370	Hattiesburg, Miss.		KBTM	1200	Jonesboro, Ark.
3:50-4:10	KNEL	1500	Brady, Texas	5:20-5:40	KRKO	1370	Everett, Wash.
	WGBF	630	Evansville, Ind.		KPRO	1370	Longview, Texas
	WEED	1420	Rocky Mount, N. C.	5:30-5:50	KGEZ	1310	KallsPELL, Mont.
4:00-4:20	KVSO	1210	Ardmore, Okla.	5:40-6:00	KFXD	1200	Nampa, Idaho
	WFDF	1310	Flint, Mich.	5:50-6:10	KXRO	1310	Aberdeen, Wash.
				6:00-6:20	KGY	1210	Olympia, Wash.
					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

<b>February 2</b>			
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	KFRO	1370	Longview, Texas NNRC
3:00- 5:00	CFFT	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. UDXC
1:00- 5:00	CMBX	1380	Havana, Cuba UDXC
2:00- 3:00	WPFB	1370	Hattiesburg, Miss. NNRC
2:30- 3:30	KFRO	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	WBRR	1300	Brooklyn, N.Y.
4:00- 6:00	KVOL	1310	Lafayette, La.

## February 9, 23

2:00- 4:00	WJBO	1420	Baton Rouge, La.
<b>February 2, 9, 16, 23</b>			
1:00- 3:00	CMJA	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	CKOV	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	KFBI	1050	Abilene, Kans.

## February 24

2:00- 6:00	RADEX		MYSTERY DX CONTEST
<b>February 3, 10, 17, 24</b>			
12:01- 2:00	CMHW	810	Clientuegos, Cuba
1:00- 2:00	WGES	1360	Chicago, Illinois

## Tuesday Mornings

### February 4

3:00- 4:00	WNEL	1290	San Juan, P.R.
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### 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	CFCY	630	Charlottetown, P.E.I.
2:00- 3:30	KIUL	1210	Garden City, Kans.

### February 25

2:30- 4:00	KADA	1200	Ada, Oklahoma
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### February 4, 11, 18, 25

1:00- 2:00	WHEF	1500	Kosciusco, Miss.
2:00- 3:00	XEFL	1420	Monterrey, N. L.
3:00- 4:00	KFXM	1210	San Bernardino, Cal.
5:00- 5:15	WBNS	1430	Columbus, Ohio

## Wednesday Mornings

### February 5

1:00- 1:30	WEBC	1290	Superior, Wisc.
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	1240	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.

<b>February 26</b>		<b>February 14</b>	
2:00- 3:00	WOC 1370 Davenport, Ia. NNRC	2:15- 2:45	KPOF 880 Denver, Colo.
3:00- 4:00	WIXBS 1530 Waterbury, Conn.	3:00- 6:30	FCC Frequency Checks
3:00- 4:00	WNEL 1290 San Juan, P.R.	<b>February 21</b>	
<b>February 12, 26</b>		1:31- 1:39	CJKL 530 Kirkland Lake, Ont.
6:00- 6:30	WOOD 1270 Grand Rapids, Mic. COXR	2:01- 2:09	CFNB 580 Fredericton, N.B.
<b>February 5, 12, 19, 26</b>		<b>February 28</b>	
12:01- 1:00	WOWO 1160 Fort Wayne, Ind.	1:00- 1:15	KPRC 920 Houston, Texas
1:30- 2:00	WKBB 1500 East Dubuque, Ill.	1:00- 1:15	WLLH 1370 Lowell, Mass.
4:30- 4:45	WCAL 1250 Northfield, Minn.	2:15- 2:30	WCSH 940 Portland, Me.
<b>Thursday Mornings</b>		4:00- 5:00	WKAQ 1240 San Juan, P.R. NNRC
<b>February 6</b>		<b>February 7, 14, 21, 28</b>	
2:00- 3:00	KFRO 1370 Longview, Texas NNRC	12:01- 2:00	CFCN 1030 Calgary, Alta.
<b>February 13</b>		<b>Saturday Mornings</b>	
2:00- 6:20	FCC Frequency Checks	<b>February 1</b>	
2:15- 2:30	WLLH 1370 Lowell, Mass.	3:00- 4:00	CHAB 1200 Moose Jaw, Sask. CDXR
<b>February 20</b>		3:00- 4:00	WOI 640 Ames, Iowa CDXR
1:01- 1:09	CRCS 950 Chicoutimi, P.Q.	4:30- 5:30	CKNX 1200 Wingham, Ont. CDXR
1:11- 1:19	CJCB 1240 Sydney, N.S.	<b>February 8</b>	
1:21- 1:29	CHNS 930 Halifax, N.S.	5:00- 6:00	WOV 1130 New York, N. Y. CDXR
1:31- 1:39	CHRC 580 Quebec, P.Q.	<b>February 15</b>	
1:51- 1:59	CJLS 1310 Yarmouth, N.S.	<b>February 15</b>	
2:00- 3:00	WRUF 830 Gainesville, Fla. UDXC	<b>February 15</b>	
2:01- 2:09	CFNB 550 Fredericton, N. B.	<b>February 15</b>	
2:11- 2:19	CHSJ 1120 St. John, N.B.	2:10- 6:30	FCC Frequency Checks
3:00- 4:00	CMHJ 1160 Clenfuegos, Cuba UDXC	2:30- 4:00	CX26 1050 Montevideo, Ur. NNRC
3:01- 3:09	CHNC 1410 New Carlisle, P.Q.	3:30- 4:30	KIDW 1420 Lamar, Colo.
3:15- 3:30	KGGM 1230 Albuquerque, N.M.	4:00- 4:30	KFNF 890 Shenandoah, Iowa
<b>February 27</b>		<b>February 22</b>	
4:00- 4:30	KGKY 1500 Scottsbluff, Neb.	2:00- 6:00	RADEX MYSTERY DX CONTEST
5:10- 6:00	WFLA 620 Clearwater, Fla.	3:00- 4:00	KYA 1230 San Francisco, Cal. CDXR
5:30- 6:00	WRAW 1310 Reading, Pa. GCDXC	4:00- 5:00	WHJB 620 Greensburg, Pa. CDXR
<b>February 6, 13, 20, 27</b>		<b>February 29</b>	
12:30- 1:15	KLRA 1390 Little Rock, Ark. MCDXE	2:00- 3:00	WHP 1430 Harrisburg, Pa. CDXR
<b>Friday Mornings</b>		2:30- 3:30	WTFI 1450 Athens, Ga. CDXR
<b>February 7</b>		<b>February 1, 8, 15, 22, 29</b>	
2:00- 3:00	KDYL 1290 Salt Lake City CDXR	12:30- 3:00	KLRA 1390 Little Rock, Ark. MCDXE
		2:00- 3:00	XEFB 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	WSBC 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**  
 KFH KGKO KMBC KRLD KRNT  
 KSCJ KTRH K TSA KFOR KWKH  
 WAAB WABC WACO WBNS WBRC  
 WBT WCAO WCCO WHAS WIBW  
 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**  
 KFAB KMBC KMOX KRLD KRNT  
 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 WDRS 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, WTCC**  
**WWVA**

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

**R — Ames 'n' Andy**  
 CRCT KSD KYW WBNB WCAE  
 WBSH 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 Charioteers**  
CFRB KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLZ KMJ KOIN KOL KSL KVI KWG WABC WBBM WCAO WCAU WCCO WEAN WFBL WFBM WGR WJAS WJSV WKRC WNAC WOKO

**R — Uncle Ezra's Radio Station**  
KYW WBEN WCAE WCSH WDAF WDAF WDAF WEEI WFBR WGY WHO WIRE WJAR WMAQ WOW WRC WSAI WTAG WTAM  
**B — Ivory Stamp Club**  
KDKA KOIL KSO KWK WBAL WBZ WBZA WCKY WENR WFIL 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 WHK WJAS WJR WJSV WKRC WNAC WOKO WSPD  
**B — Lum and Abner**  
WBZ WBZA WENR WGAR WJZ WLW WSYR

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**C — Boake Carter**  
KMBC KMOX KOMA KRLL WABC WBBM WBT WCAO WCAU WCCO WDRC WEAN WFBL WGR WHAS WHK WJAS WJR WJSV WKRC WNAC

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C — Guy Lombardo and Orchestra**  
KLRA KWKH WABC WBIG WBT WCAO WCAU WCHS WCSC WDBJ WDNC WDOD WDRC WEAN WFBC WFBL WGR WHEC WHP WIBX WICC WJAS WJSV WLAC WLBZ WMAS WMBG WNAC WNBFWNOX WOKO WORC WPG WREC WSJS WWL WVVVA

**R — Hammerstein's Music Hall**  
KSD KYW WBEN WCAE WCSH WDAF WDAF WEEI WFBR WGY WHO WHIO WJAR WMAQ WOW WRC WSAI WTAG WTAM WTIC WWJ

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

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — Pick and Pat**  
KFAB KMBC KMOX KRNT KSCJ WABC WADC WBBM WCAO WCAU WDRC WEAN WFBL WFBM WGR WGST WHAS WHEC WHK WJAS WJR WJSV WKRC WMAS WNAC WOKO WORC WSPD

**R — Voice of Firestone**  
CFCF CRCT KFYR KPRC KSD KSTP KTBS KVOO KYW WAVE WBEN WCAE WCSH WDAF WDAY WDAF WEBC WEEI WFAA WFRB WFLA WGY WHO WHIO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WMAQ WMC WOA WOW WPTF WRC WSAI WSB WSM WTAG WTAM WTAR WTIC WWJ WNNC

WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WNNC  
**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 KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLL KRNT KSL KTRH KTSa KTUL KVI KWG WABC WADC WBBM WBNS WBRC WBT WCAO WCAU WCCO WDAE WDBJ WDRC WEAN WFBL WFBM WGST WHAS WHEC WHK WICC WISN WJAS WJR WJSV WKBW WKRC WLAC WNAC WNAX WOKO WORC WQAM WREC WSPD WWL

**R — A. & P. Gypsies**  
KSD KYW WBEN WCAE WCSH WDAF WDAF WEEI WGY WHO 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 WBAL WBZ WBZA WDAY WEBC WFAA WFLA WGAR WHAM WIBA WIOD WIS WJAX WJDX WJZ WKY WLS WLW WMAL WMC WMT WOA WPTF WREN WRVA WSB WSM WSMB WSOC WSUN WSYR WTAR WTMJ WNNC WXYZ

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**R — Grace Moore**  
KDYL KFI KFSD KFYR KGHL KGIR KGW KHQ KOA KOMO KPO KPRC KSD KSTP KTAR KTBS KVOO KYW WAVE WBEN WCAE WCSH WDAF WDAY WDAF WEBC WEEI WFBR WFLA WGY WHO WHIO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WLW WMAQ WMC WOA WOV WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WWJ WNNC

**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 KFRC KGB KHJ KLZ KMBC KMJ KMOX KOIN KOL KRLL KSL KVI KWG WAAB WABC WADC WBBM WBNS WCAO WCAU WCCO WDRC WEAN WFBL WFBM WHAS WHK WIBW WJAS WJR WJSV WKBW WKRC WOKO WSPD WWL

**R — Contented Program**  
CFCF CRCT KDYL KFI KGW KHQ KOA KOMO KPO KPRC KSD KYW WBEN WCAE WCSH WDAF WDAF WEEI WFBR WFLA WGY WHO WIOD WIS WJAR WJAX WKY WMAQ WMC WOA WOV WPTF WRC WRVA WSAI WSB WSM WTAG WTAM WTAR WTIC WWJ WNNC

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**C — Clyde Barrie and Orchestra**  
CFRB CKAC KFH KHJ KSL

KRNT KSCJ KTRH KTSa KVOR KWKH WAAB WABC WACO WADC WALA WBBM WBIG WBNS WBRG WBT WCAO WCAU WDAE WDBJ WDBO WDNC WDOD WDRC WFBL WFBM WFEA WGR WHAS WHEC WHP WIBW WIBX WISN WJAS WJSV WKBN WKRC WLAC WLBZ WMAS WMBD WMBR WMMN WNAX WNOX WOC WOKO WORC WPG WQAM WREC 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 WFBL WFEA WHEC WHK WIBX WJAS WKBN WKBW WLBZ WMAS WOKO WORC WPG WSBT WSPD

**C — Myrt and Marge**  
KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLRA KLZ KMBC KMJ KMOX KOIN KOL KOMA KRLL KSL KTRH KVI KWG WALA WBBM WBRG WCCO WFBM WGST WHAS WLAC WREC WSFA WWL

**R — Amos 'n' Andy**  
KDYL KFI KOW KHQ KOA KOMO KPO KPRC KSD KTHS WBAF WDAF WHO WKY WMAQ WMC WOA WOV WSP WSM WSMB

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C — Singing Sam**  
KDB KERN KFAB KFBK KFPY KFRC KGB KHJ KLZ KMJ KOIN KOL KSL KVI KWG

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

**C — Pick and Pat**  
KDB KERN KFAB KFPY KFRC KGB KHJ KLZ KMJ KOIN KOL KSL KVI KWG

**R — Voice of Firestone**  
KDYL KFI KFSD KGHL KGIR 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**  
KFH KGKO KLRA KLZ KMBC KOMA KRLL KSCJ KTRH KTSa KVOR KWKH WAAB WABC WACO WALA WBBM WBIG WBRG WCAO WCAU WDAE WDBJ WDBO WDNC WDOD WDRC WESG WFBL WFBM WFEA WGR WGST WHEC WIBX WJR WKBN WLAC WLBZ WMAS WMBD WMBG WMBR WNOX WOC WOKO WORC WQAM WREC 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 WBBO  
 WBRC WCAO WDAE WDBJ WDBC  
 WDNC WDOD WFBL WGST WIBX  
 WJSV WKBN WLAC WLZB WMAS  
 WNOX WORC WQAM WREC 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**  
 KDKA KDYL KFI KGW KHQ KOA  
 KOIL KOMO KPO KSO KWK WBAL  
 WBZ WBZA WCKY WENR WFIL  
 WGAR WHAM WJZ WMAL WMT  
 WSYR WXYZ

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**R — Popeye, The Sailor**

KFYR KSD KSTP KYW WBEN  
 WCAE WCSH WDAF WDAY WFAF  
 WEBC WEEI WFBR WGY WHIO  
 WIBA WIRE WJAR WMAQ WOW  
 WRC WSAI WTAG WTAM WWJ

**C — Krueger Musical Teast**  
 WABC WBIG WBT WDAE WDBJ  
 WDBO WDNC WDOD WDRC WEAN  
 WFBL WFEA WGR WGST WIBX  
 WJCV WJSV WLZB WMAS WMBG  
 WMBR WNAC WNBFWNOX WOKO  
 WORC WQAM WTCO

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

KFAB KMBC KMOX KRLL KRNT  
 KTRH WABC WADC WBBM WBNS  
 WBRC WBT WCAO WCAU WCCO  
 WDAE WDRC WEAN WFBL WFBM  
 WGR WGST WHAS WHK WISN  
 WJAS WJR WJSV WKBN WKRC  
 WLZB WMAS WMBG WMBR WNAC  
 WOKO WWL WVA

**B — Lum and Abner, See Monday**

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

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C — Frank Munn; Lucy Menree**

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

**R — Leo Reisman and Orchestra**

KFYR KPRC KSD KSTP KTBS  
 KVOO KYW WAVE WBAP WBEN  
 WCAE WCSH WDAF WDAY WFAF  
 WEBC WEEI WFBR WFLA WGY  
 WHO 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 — Eno Crime Clues**

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

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

CFRB CRMC KDB KERN KFAB  
 KFBK KFH KFPY KFRC KGB  
 KOKO KHJ KLRA KLZ KMBC KMJ  
 KMOX KOH KOIN KOL KOMA

KRLD KRNT KSCJ KSL KTRH  
 KTSA KTUL KVI KFOR KWG  
 KWKH WABC WACO WADC WALA  
 WBIG WBNS WBRC WBT WCAO  
 WCAU WCCO WCOA WDAE WDBJ  
 WDBO WDNC WDOD WDRC WEAN  
 WFBL WFBM WGR WGST WHAS  
 WHEC WHK WHP WIBW WIBX  
 WICC WISN WJAS WJR WJSV  
 WKBN WKRC WLAC WMAS WMBG  
 WMBR WNAC WNAX WNOX WOC  
 WOKO WORC WQAM WREC WSFA  
 WJRS WSPD WTCO WWL

**R — Wayne King and Orchestra**

KFYR KPRC KSD KSTP KTBS  
 KVOO KYW WAVE WBAP WBEN  
 WCAE WCSH WDAF WDAY WFAF  
 WEEI WGY WHO WIBA WIRE  
 WJAR WJDX WKY WMAQ WMC  
 WOAI WOW WRC WSAI WSB WSMB  
 WTAG WTAM WTAR WTIC WTMJ  
 WWJ

**B — Edgar Guest, Welcome Valley**

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

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

**C — Walter O'Keefe; Glen Gray**

KFAB KFH KGKO KLRA KMBC  
 KMOX KOMA KRLD KRNT KSCJ  
 KTRH KTSA KTUL KWKH WABC  
 WACO WADC WALA WBBM WBIG  
 WBNS WBRC WBT WCAO WCAU  
 WCCO WDAE WDBJ WDBO WDNC  
 WDOD WDRC WEAN WFBL WFBM  
 WFEA WGST WHAS WHEC WHK  
 WHP WIBW WIBX WICC WJAS  
 WJR WJSV WKBN WKBW WKRC  
 WLAC WLZB WMAS WMBD WMBG  
 WMBR WNAC WNAX WNOX WOKO  
 WORC WOWO WPG WQAM WREC  
 WSBT WSFA WSJS WSPD WTCO  
 WWL

**R — N. T. G. and His Girls**

KDYL KFI KGW KHQ KOA KOMO  
 KPO KSD KYW WAVE WBEN  
 WCAE WCSH WFAF WEEI 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 KSO KTBS  
 KTHS KVOO KWK WBAL WBAP  
 WBZ WBZA WFIL WFLA WGAR  
 WHAM WIOD WIS WJAX WJZ WKY  
 WLS WLW WMAL WMT WOAI  
 WPTF WREN WRVA WSOC WSYR  
 WTAR WWNC WXYZ

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

**C — Fred Waring's Pennsylvanians**

CFRB CKAC KFAB KFH KGKO  
 KLRA KLZ KMBC KMOX KOH  
 KOMA KRLD KSCJ KSL KTRH  
 KTSA KTUL KFOR KWKH WABC  
 WACO WADC WALA WBBM WBIG  
 WBNS WBRC WBT WCAO WCAU  
 WCCO WCOA WCSH WDAE WDBJ  
 WDBO WDNC WDOD WDRC WEAN  
 WFBL WFBM WFEA WGST WHAS  
 WHEC WHK WHP WIBW WIBX  
 WICC WISN WJAS WJR WJSV  
 WKBN WKRN WKBW WKRC WLAC  
 WLZB WMAS WMBD WMBR WNAC  
 WNAX WNBFWNOX WOC WOKO  
 WORC WOWO WPG WQAM WREC  
 WSBT WSFA WSJS WSPD WTCO  
 WWL

**R — Jumbo-Fire Chief Show**

KDYL KFI KFSD KFYR KGHL

KGIR KGW KHQ KOA KOMO KPO  
 KPRC KSD KSTP KTAR KTBS  
 KTHS KVOO KYW WAVE WBAP  
 WBEN WCAE WCSH WDAF WDAY  
 WFAF WEBC WEEI 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 — Helen Hayes, Drama**

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**

**R — Swift Studio Party**

CRCT KFI KFYR KGW KHQ KOA  
 KOMO KPO KPRC KSD KSTP KTBS  
 KTHS KYW WBAP WBEN WCAE  
 WCSH WDAF WDAY WFAF WEBC  
 WEEI WFBR WGY WHO WHIO  
 WIBA WJAR WKY WLW WMAQ  
 WOAI WOW WRC WTAG WTAM  
 WTIC WTMJ WWJ

**B — Wendell Hall**

CFCF KDKA KOIL KSO KWK  
 WBAL WBZ WBZA WCKY WENR  
 WFIL WGAR WHAM WIRE WJZ  
 WMAL WMT WOOD WREN WSYR  
 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 KFBK KFPY  
 KFRC KGB KHJ KLZ KMBC KMJ  
 KMOX KOIN KOL KRLD KRNT  
 KSL KVI KWG WABC WADC  
 WBBM WBNS WCAO WCAU WCCO  
 WDRC WEAN WFBL WFBM WGST  
 WHAS WHEC WHK WJAS WJR  
 WJSV WKBW WKRC WNAC WOKO  
 WSPD WWL

**R — Jimmy Fidler; Hellyweed Gossip**

KDYL KFI KGW KHQ KOMO KPO  
 KPRC KSD KTBS KTHS KYW  
 WAPI WAVE WBEN WCAE WCKY  
 WCSH WDAF WFAF WEEI WFAA  
 WFBR 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 WDRC WFBL WFEA WHEC  
 WHK WIBX WJAS WJSV WKBW  
 WLZB WMAS WOKO WORC WSBT  
 WSPD

**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**

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

**C — Walter O'Keefe; Glen Gray**

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



## TUESDAY (Continued)

**R — Leo Reisman and Orchestra**  
KDYL KFI KFSB KGHL KGIR  
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 KFBK 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 — Amos 'n' Andy; See Monday**

**B — Easy Aces; See Tuesday**

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C — Imperial Hawaiian Band**  
KFAB KMOX KRNT WABC WADC  
WBBM WCAO WCAU WDRC WEAN  
WFBL WFBM WGR WIJK 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 — Boake Carter; See Monday**

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C — Cavalcade of America**  
KDB KERN KFAB KFBK KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KRLD KRNT  
KSL KVI KWG WABC 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 KFYZ KGW KHQ KOA  
KOMO KPO KPRC KSD KSTP  
KTAR KTBS KVOO KYW WAVE  
WBEN WCAE WCHS WDAF WDAY  
WEAF WIBC WEEI WFAA WFRB  
WFLA WGY WHO WHIO WIBA  
WIOD WIRE WIS WJAR WJAX  
WJDX WKY WLW WMAQ WMC  
WQAI WOW WPTF WRC WRVA  
WSB WSM WSMB WTAG WTAM  
WTIC WTMJ WWJ WWNC

**B — Rendezvous; Phil Ducey**  
CRCT KDKA KOIL KSO KWK  
WBAL WBZ WBZA WCKY WFIL  
WGAR WHAM WJZ WLS WMAL  
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 KFII KLRA  
KMBC KMOX KOMA KRLD KRNT  
KBCJ KTRH KTSa KTUL KWKH  
WABC WADC WBBM WBNS WBRC  
WBT WCAO WCAU WCCO WDAE  
WDBJ WDBO WDRC WEAN WFBL

WFBM WFEA WGR WGST WHAS  
WHEC WHK WHP WIBW WIBX  
WICC WJAS WJR WJSV WKRC  
WLAC WLBZ WMBG WMBD WMBG  
WMBR WNAC WNAX WNOX WOKO  
WORC WPG WQAM WREC 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 WMAL WMT WREN  
WSYR WXYZ

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**C — Chesterfield Program**  
KDB KERN KFAB KFBK KFII  
KFPY KFRC KGB KGKO KGMB  
KHJ KLRA KLZ KMBC KMJ KMOX  
KOH KOIN KOL KOMA KRLD  
KRNT KSCJ KSL KTRH KTSa  
KTUL KVI KVOR KWG KWKH  
WABC WACO WADC WALA WBBM  
WBIG WBNS WBRC WBT WCAO  
WCAU WCCO WCOA WDAE WDBJ  
WDBO WDNC WDOA WDRC WEAN  
WFBL WFBM WFEA WGST WHAS  
WHEC WHK WHP WIBW WIBX  
WICC WISN WJAS WJR WJSV  
WKBH WKBW WKRC WLAC WLBZ  
WMAS WMBD WMBG WMBR  
WNAC WNAX WNBW WNOX WOC  
WOKO WORC WOWO WPG WQAM  
WREC WSFA WSJS WSPD WTOC  
WWL

**R — Town Hall; Fred Allen**  
KFYR KPRC KSD KSTP KTBS  
KTBS KVOO KYW WAVE WBEN  
WCAE WCHS WDAF WDAY WEAF  
WIBC WEEI WFAA WFRB WFLA  
WGY WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WQAI WOW WPTF WRC WSB  
WSM WSMB WSOC 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 KFBK  
KFII KFPY KFRC KGB KGKO KHJ  
KLRA KLZ KMBC KMJ KMOX KOH  
KOIN KOL KOMA KRLD KRNT  
KSCJ KSL KTRH KTSa KTUL KVI  
KWG KWKH WABC WACO WADC  
WALB WBBM WBIG WBNS WBRC  
WBT WCAO WCAU WCCO WCOA  
WDAE WDBJ WDBO WDOD WDRC  
WEAN WFBL WFBM WFEA WGST  
WHAS WHEC WHK WHP WIBW  
WIBX WICC WJAS WJR WJSV  
WKBH WKBW WKRC WLAC WLBZ  
WMBD WMBG WMBR WNAC  
WNOX WOC WOKO WORC WOWO  
WPG WQAM WREC WSFA 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 WMAL  
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 KTSa  
KTUL KWKH WAAB WABC WBBM  
WBNS WBRC WBT WCAO WCAU  
WCBL WCCO WDAE WDBJ WDBO  
WDRC WEAN WFBL WFBM WGST  
WHAS WHEC WHK WJAS WJR  
WJSV WKBW WKRC WLAC WMBG  
WMBR WOKO WORC WOWO  
WQAM WREC 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  
WMAL 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 WDOD  
WDRC WEAN WFBL WFBM WFEA  
WGST WHAS WHEC WHK WICC  
WJAS WJR WJSV WKBW WKRC  
WLAC WLBZ WMBG WMBR WNOX  
WOKO WORC WQAM WREC WSPD  
WTOC

**C — Burns and Allen**  
KDB KERN KFBK 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  
KOM A KRLD KRNT KSCJ KTRH  
KTSa KVOR KWKH WAAB WABC  
WALA WBIG WBNS WBRC WBT  
WCAO WCAU WDAE WDBO WDNC  
WDOD WFBL WFBM WGST WHK  
WISN WJAS WJR WJSV WKBW  
WLAC WMBG WMBR WNOX  
WOKO WQAM WREC 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 WDOA WFBL WGST  
WHEC WIBX WJSV WLAC WBLZ  
WMAS WORC WQAM WREC 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 Toast; See Tuesday**  
**B — Nine to Five; Comedy Sketch**  
KDKA KOIL KSO KWK WBAL  
WBZ WBZA WENR WFIL WGAR  
WHAM WJZ WMAL WMT WREN  
WBAI 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 — Boake Carter; See Monday**

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

## THURSDAY (Continued)

WADC WBBM WBNS WCAO WCAU  
WCCO WDRC WEAN WFBL WFBM  
WGR WHAS WHK WJAS WJR WJSV  
WKRC WMAS WNAC WOKO WSPD

**R — Rudy Vallee's Variety Hour**  
CFCF CRCT KDYL KFI KFYY  
KGW KHQ KOA KOMO KPO KSD  
KSTP KTAR KYW WBEN WCAE  
WCSH WDAF WDAY WEAF WEBC  
WEEI WFBR WGY WHO WJAR  
WLW WMAQ WOW WRC WTAG  
WTAM WTIC WTMJ WWJ

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — The March of Time**  
KFAB KLZ KMBC KMOX KRLD  
KRNT KSL WABC WADC WBBM  
WBNS WCAO WCAU WCCO WDRC  
WEAN WFBL WFBM WGST WHAS  
WHEC WHK WJAS WJR WJSV  
WKBW WKRC WNAC 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 KFYY KGH  
KGR KGW KHQ KOA KOMO KPO  
KPRC KBD KSTP KTAR KTBS  
KYW WAPI WAVE WBAP WBEN  
WCAE WCHS 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 WTAR WTIC  
WTMJ WWJ WWNC

**B — Death Valley Days**  
KDKA KOIL KSO KWK WBAL WBZ  
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 KFRC KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLD KRNT KSL KTRH KTS  
KVI KWG KWKH WABC WADC  
WBBM WBNS WBRC WBT WCAO  
WCAU WCCO WDDC WDRC WEAN  
WFBL WFBM WGST WHAS WHEC  
WHK WHP WISN WJAS WJR WJSV  
WKBW WKRC WLAC WMBG  
WMBR WNAC WOKO WOWO WREC  
WSPD WTOC WWL

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C — Horace Heidt and Orchestra**

KDB KERN KFAB KFBK KFH  
KFPY KFRC KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIN KOL  
KRLD KRNT KSL KTRH KTS  
KTUL KVI KWG WABC WBBM  
WBNS WBRC WBT WCAO WCAU  
WCCO WDBO WDRC WFBL WFBM  
WGST WHAS WHK WISN WJAS  
WJR WJSV WKBW WKRC WLAC  
WMBG WNAC WNAX WOC WOKO  
WQAM WREC WWL

**R — Bing Crosby; Jimmy Dorsey**  
CFCF CRCT KDYL KFI KFYY  
KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTAR KTBS KTHS  
KV00 KYW WAVE WBAP WBEN  
WCAE WCHS WDAF WDAY WEAF  
WEBC WEEI WFBR WFLA WGY  
WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WOAI WOW WPTF WRC

WRVA WSB WSM WSMB WSOC  
WTAG WTAM WTAR WTIC WTMJ  
WWJ WWNC

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**C — Just Another Amateur; Phil Cook**  
KDB KERN KFAB KFBK KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KRLD KRNT  
KSL KVI KWG WABC WADC  
WBBM WBNS WCAO WCAU WCCO  
WDRC WEAN WFBL WFBM WGST  
WHAS WHEC WHK WJAS WJR  
WJSV WKBW WKRC WNAC 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 WBRC WBT  
WCAO WCAU WDAE WDBJ WDBO  
WDNC WDDC WDRC WEAN WFBL  
WFBM WFEA WGST WHAS WHEC  
WHK WIBX WICC WJAS WJR  
WJSV WKBW WKBW WKRC WLAC  
WLZ WMAS WMBG WMBR WNOX  
WOKO WORC WQAM WREC WSBT  
WSJS WSMK WSPD WTOC

**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 — Kaitenborn Edits News**

CFRB KGKO KHJ KLRA KLZ  
KMOX KOMA KRNT KSCJ KTRH  
KTSA KVOR KWKH WABC WADC  
WADC WALA WBRC WDAE WDBJ  
WDBO WDNC WDDC WEAN WFBL  
WFBM WGST WHAS WHEC WIBX  
WICC WJSV 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 WBRC  
WBT WCAO WCAU WCCO WDRC  
WEAN WFBL WFBM WGR WGST  
WHAS WHK WJAS WJR WJSV  
WKRC WMAS WMBG WNAC  
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 KFH KMBC KMOX KRNT  
WABC WADC WBBM WBNS WCAO  
WCAU WCCO WDRC WEAN WFBL  
WFBM WGR WHAS WHEC WHK  
WIBW WICC WJAS WJR WJSV  
WKRC WLZ WMAS WMBD WNAC  
WOC WOKO WORC WSPD

**R — Cities Service Concert**  
CRCT KOA KPRC KSD KSTP KTBS  
KTHS KYW WBEN WCAE WCHS  
WDAF WEAF WEBC WEEI WFAA  
WFBR WGY WHO WHIO WIOD  
WJAR WKY WMAQ WOAI WOW  
WRVA WSAI WTAG WTAM  
WTIC WTMJ WWJ

**B — Irene Rich; Drama**  
KDKA KDYL KFI KGW KHQ KOIL  
KOMO KPO KSO KTAR KWK WAVE  
WBAL WBZ WBZA WCKY WFIL  
WGAR WHAM WIRE WJZ WLS  
WMAL 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  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KOMA KRNT  
KSL KVI KWG WABC WADC  
WBBM WBNS WBRC WBT WCAO  
WCAU WCCO WDRC WEAN WFBL  
WFBM WGR WGST WHAS WHK  
WJAS WJR WJSV WKRC WMAS  
WMBG WNAC WOKO WSPD WWL

**B — Red Nichols and Orchestra**  
KDKA KDYL KFI KFSD KGW KHQ  
KOIL KOMO KPO KSO KTAR KWK  
WBAL WBZ WBZA WFIL WGAR  
WHAM WJZ WLS WLW WMAL  
WMT WREN WSYR WXYZ

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

CFRB CKAC KDB KERN KFAB  
KFBK KFH KFPY KFRC KGB KHJ  
KLRA KLZ KMBC KMJ KMOX  
KOIN KOL KOMA KRLD KRNT  
KSCJ KSL KTRH KTSA KTUL KVI  
KVOR KWG KWKH WABC WADC  
WBBM WBNS WBRC WBT WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDRC WEAN WFBL WFBM WFEA  
WGST WHAS WHEC WHK WHP  
WIBW WIBX WICC WJAS WJR.  
WJSV WKBW WKRC WLAC WLZ  
WMAS WMBD WMBG WMBR  
WNAC WNAX WNOX WOKO WORC  
WPG WQAM WREC WSPD WWL

**R — Frank Munn; Bernice Claire**  
KSD KYW WBEN WCAE WCHS  
WDAF WEAF WEEI WFBR WGY  
WJAR WLW WMAQ WOW WRC  
WTAG WTAM WWJ

**B — Al Pearce and his Gang**  
KDKA KDYL KFI KGW KHQ KOA  
KOIL KOMO KPO KSO KWK WBAL  
WBZ WBZA WCKY WFIL WGAR  
WHAM WHIO WIRE WJZ WLS  
WMAL 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 WBEN  
WCAE WCHS WEAF WEEI WFBR  
WGY WHO WHIO WJAR WMAQ  
WOW WRC WTAG WTAM WTIC  
WWJ

## 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  
 KTSA KTUL WAAB WABC WADC  
 WBBM WBNS WCAO WCAU WCCO  
 WDBJ WDRC WFBL WFBM WGST  
 WHAS WHK WIBX WJAS WJR  
 WJSV WKBW WKRC WOKO WORC  
 WSBT WSPD

**R — Compana's First Nighter**  
 KDYL KFI KFSD KGW KHQ KOA  
 KOMO KPO KPRC KSD KSTP  
 KTAR KVOO KYW WBEN WCAE  
 WCSH WDAF WDAF WDFB WEEI  
 WFAA WFBR WFLA WGY WHO  
 WIOD WJAR WJAX WKY WLW  
 WMAQ WMC WOI WOW WRC  
 WRVA WSB WSM WSMB WTAG  
 WTAM WTIC WTMJ WWJ WWNC

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

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C — Dance Orchestra**  
 CFRB CKAC KLRA KSCJ WAAB  
 WABC WADC WALA WBNS WBRB  
 WBT WCAO WCAU WDAE WDBJ  
 WDBO WDNC WDOD WDRC WFBL  
 WFEA WGST WHEC WHK WIBX  
 WISN WJAS WJR WKBW WLAC  
 WLBZ WMAS WMBD WMBG  
 WMBR WNAX WNOX WOC WOKO  
 WORC WPG WQAM WREC 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 WBRB WBT  
 WCAO WCAU WDAE WDBJ WDBO  
 WDNC WDOD WDRC WEAN WFBL  
 WFBM WFEA WGST WHAS WHEC  
 WHK WIBX WICW WJAS WJR WJSV  
 WKBW WKRC WLAC WLBZ 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 KGKO KLRA KLZ KMBC  
 KMOX KOMA KRLL KSCJ KSL  
 KTRH KTSA KVOR KWKH WAAB  
 WABC WACO WADC WALA WBBM  
 WBIG WBRB WBT WCAO WCCO  
 WDAE WDBJ WDBO WDNC WDOD  
 WESG WFBL WFBM WGST WHEC  
 WHK WIBW WICW WISN WJAS  
 WJR WJSV WKBW WKRC WLAC  
 WLBZ WMBG WMBR WNOX WOKO  
 WORC WQAM WREC 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 KGKO KLRA KLZ  
 KMBC KMOX KOMA KRLL KSCJ  
 KTRH KVOR KWKH WAAB WABC  
 WACO WADC WALA WBBM WBIG  
 WBRB WCAO WCAU WDAE WDBJ  
 WDBO WDNC WDOD WDRC WESG  
 WFBL WFBM WFEA WGST WHEC  
 WHK WIBW WICW WISN WJAS  
 WJR WJSV WKBW WLAC WLBZ  
 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 WBRB  
 WBT WCAO WCAU WCCO WEAN  
 WDBJ WDBO WDRC WEAN WFBG  
 WFBL WGBI WGR WGST WHEC  
 WHK WHP WIBX WICC WJAS  
 WMAS WMBG WMBR WNAC  
 WNBC WOKO WORC WQAM  
 WRAC 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  
 WFBL 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  
 KTSA KTUL KWKH WABC WBBM  
 WBNS WBRB WBT WCAO WCAU  
 WCCO WDAE WDBJ WDBJ WDRC  
 WEAN WFBL WFBM WGR WGST  
 WHAS WHEC WHK WJAS WJR  
 WJSV WKRC WLAC WLBC WMBG  
 WMBR WNAC WOKO WORC WQAM  
 WREC WTOC WWL

**R — The Hit Parade**  
 KDYL KFI KFSD KFYR KGHL  
 KGIR KGU KGW KHQ KOA KOMO  
 KPO KPRC KSD KSTP KTAR KTBS  
 KYW WAPI WAVE WBAP WBEN  
 WCAE WCSH WDAF WDAY WFAE  
 WFBM WEEI WFBR WFLA WGY  
 WHO WHIO WIBA WIOD WIRE  
 WIS WJAR WJAX WJDX WKY  
 WLW WMAQ WMC WOI WOW  
 WPTF WRC WRVA WSB WSM  
 WSMB WSOC WTAG WTAM WTAR  
 WTIC 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 KGU KGW KHQ KOA KOMO  
 KPO KPRC KSD KSTP KTAR KTBS  
 KTBS KYW WAPI WAVE WBAP  
 WBEN WCAE WCSH WDAF WDAY  
 WFAE WFBM WEEI WFBR WFLA  
 WGY WIBA WIOD WIRE WIS  
 WJAR WJAX WJDX WKY WLW  
 WMAQ WMC WOI WOW WPTF  
 WRC WRVA WSB WSMB WSOC  
 WTAG WTAM WTAR WTIC WTMJ  
 WWJ WWNC

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Along Rialto Row; Variety**

CFRB KFH KGKO KLRA KLZ  
 KMBC KMOX KOL KOMA KRLL  
 KRNT KSCJ KSL KTRH KTSA  
 KVOR KWKH WABC WACO WADC  
 WAIA WBBM WBIG WBNS WBRB  
 WBT WCAO WCAU WDAE WDBJ  
 WDBO WDNC WDOD WDRC WFBL  
 WFBM WFEA WGST WHAS WHEC  
 WHK WIBW WICW WISN WJAS  
 WJR WJSV WKBW WKRC  
 WLAC WLBZ WMAS WMBD WMBG  
 WMBR WNAC WNOX WOC WOKO  
 WORC WPG WQAM WREC WSBT  
 WSJS WSPD WTOC

**R — Shell Chateau; Al Jolson**  
 KDYL KFI KFSD KFYR KGHL  
 KGIR KGU KGW KHQ KOA KOMO  
 KPO KSD KSTP KTAR KYW WBEN  
 WCAE WCSH WDAF WDAY WFAE

WEBC WEEI WFBR WGY WIBA  
 WJAR WLW WMAQ WOW WRC  
 WTAG WTAM WTIC WTMJ WWJ

**B — National Barn Dance**  
 KDKA KOIL KPRC KSO KTBS  
 KTBS KVOO KWK WAPI WAVE  
 WBAL WBAP WBZ WJAZ WFIL  
 WGAR WHAM 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 KGKO KLRA  
 KLZ KMBC KMOX KOMA KSCJ  
 KTRH KTSA KVOR KWKH WABC  
 WACO WADC WALA WBBM WBIG  
 WBNS WBRB WBT WCAO WCAU  
 WCCO WDAE WDBJ WDBO WDNC  
 WDOD WDRC WEAN WFBL WFBM  
 WFEA WHAS WHEC WHK WIBW  
 WIBX WICC WISN WJAS WJR  
 WJSV WKBW WKRC WLAC WLBZ  
 WMAS WMBD WMBG WMBR  
 WNAC WNOX WOC WOKO WORC  
 WPG WQAM WREC WSBT WSJS  
 WSMK WSPD WTOC

**R — Corn Cob Pipe Club**  
 KDYL KFI KGA KGW KJR KOA  
 KPO KSD KYW WBEN WCAE  
 WCKY WCSH WDAF WFAE WEEI  
 WFBR WGY WHO WIRE WJAR  
 WMAQ WOW WRC WRVA WTAG  
 WTAM WTIC WWJ

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

**C — Dance Orchestra**  
 CFRB CKAC KFH KGKO KLRA  
 KLZ KMBC KMOX KOMA KRLL  
 KSCJ KSL KTRH KTSA KVOR  
 KWKH WABC WACO WADC WALA  
 WBBM WBNS WBRB WBT WCAO  
 WCAU WCCO WDAE WDBJ WDBO  
 WDNC WDOD WDRC WFBL WFBM  
 WFEA WGST WHAS WHEC WHK  
 WIBW WIBX WICC WISN WJAS  
 WJR WJSV WKBW WKRC WLAC  
 WLBZ WMAS WMBD WMBG  
 WMBR WNAX WNOX WOC WOKO  
 WORC WQAM WREC WSBT WSJS  
 WSMK WSPD WTOC

**C — Palmolive Beauty Box Theater**  
 KDB KERN KFBK KFPY KFRC  
 KMJ KOIN KOL KVI KWG

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

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

**C — Dance Orchestra**  
 CFRB CKAC KFH KGKO KLRA  
 KLZ KMBC KMOX KOMA KSL  
 KTRH KTSA KVOR KWKH WABC  
 WACO WADC WALA WBNS WBRB  
 WBT WCAO WCAU WDAE WDBJ  
 WDBO WDNC WDOD WDRC WEAN  
 WFBL WFBM WFEA WGST WHAS  
 WHEC WHK WIBW WICW WICC  
 WJAS WJR WKBW WKRC WLAC  
 WLBZ WMAS WMBG WMBR WNOX  
 WOKO WORC WQAM WREC WSBT  
 WSJS WSMK WSPD WTOC

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

**C — Dance Orchestra**  
 CKAC KFH KLRA KMBC KMOX  
 KOMA KRLL KSCJ KSL KTRH  
 KTSA KVOR KWKH WABC WBBM  
 WBNS WBRB WCAU WCCO WDNC  
 WDOD WEAN WFBL WFBM WGST

# SATURDAY (Continued)

WIBW WIBX WICC WISN WJR  
WKBW WKRC WLAC WMBD  
WMBR WNOX WOC WOKO WQAM  
WSBT 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 WGBT WHAS WIBW  
WIBX WISN WJAS WJR WJSV  
WKBW WKRC WLAC WLBZ WMAS  
WMBD WMBR WNAC WNAX  
WNOX WOKO WORC WQAM WREC  
WSBT WSMK WSPD WTOC

**R — Major Bowes' Capitol Family**  
KDYL KFYP KOA KPRC KSTP  
KTBS KVOO WAPI WCAE WDAF  
WDAY WEAF WEBC WFAA WFRB  
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-9:30

**B — Radio City Music Hall**  
CFPC CRCT KDKA KDYL KFI  
KFYP KGO KGW KHQ KOIL KOMO  
KPRC KSO KVOO WAPI WBAL  
WBZ WBZA WCKY WDAY WEBC  
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 WIBX WJAS WJSV  
WKBW WLAC WLBZ WMBD WMBR  
WNAC WOC WOKO WORC WPG  
WQAM WREC WSJS WSMK WSPD  
WTOC 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 WIBW WIBX WJAS  
WJSV WKBW WKRC WLAC WLBZ  
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 Footnotes**  
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 KOMA KRLD  
KRNT KSL KTRH KTUL WABC  
WADC WBBM WBNS WBEC WBT  
WCAO WCCO WDRC WEAN WFBM  
WHAS WHEC WHK WJR WJSV  
WKBW WKRC WLAC WNAC WOKO  
WOW WREC WWL

**B — Magic Key of RCA**

CFPC CRCT KDKA KDYL KFI  
KFYP KGU KGW KHQ KOA KOIL  
KOMO KPO KPRO KSO KSTP KTBS  
KTBS KVOO KWK WAPI WAVE  
WBAL WBZ WBZA WCKY WDAY  
WEBC WENR WFAA WFIL WFLA  
WGAR WHAM WHIO WIBA WIOD  
WIRE WIS WJAX WJDX WJZ WKY  
WMAL WMC WMT WOAI WPTF  
WREN WRVA WSB WSM WSMB  
WSOC WSYR WTAR WTMJ WWNC  
WXYZ

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

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

**R — Vox Pop; Sidewalk Interviews**  
KSD KYW WBEN WCAE WCSH  
WEAF WEEI WFBR WGY WHO  
WHIO WIRE WJAR WMAQ WWC  
WRC WSAI WTAG WTAM WTV  
WWJ

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  
WGBT WHAS WHEC WHK WIBW  
WIBX WICC WISN WJAS WJR  
WKBW WKBW WKRC WLAC WLBZ  
WMAS WMBD WMBG WMBR  
WNAC WNOX WOC WOKO WORC  
WQAM WREC WSBT WSJS WSMK  
WSPD WTOC

**B — Your English**

KDKA KDYL KFI KGW KHQ KOA  
KOIL KOMO KPO KPRC KSO KSTP  
KTBS KVOO KWK WAPI WAVE  
WBAL WBZ WBZA WDAY WEBC  
WENR WFAA WFIL WFLA WGAR  
WHAM WIOD 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 KFYP KOIL KSO KSTP KWK  
WBAL WBZ WBZA WDAY WEBC  
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 KSD KTBS KTBS  
KVOO KYW WAPI WAVE WBEN  
WCAE WCKY WCSH WDAF WEAF  
WEEI 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 WTV WWJ  
WWNC

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  
WJDX WJR WLBZ WLH 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**

CFPC KDYL KFI KFYP KGW KHQ  
KOA KOMO KPO KPRC KSTP  
KTBS KTBS KVOO KYW WAPI  
WAVE WBAF WBEN WCAE WCSH  
WDAF WDAY WEAF WEBC 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  
WTV WWJ WWNC

**B — Roses 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 WIBX  
WICC WJR WJSV WMAS WOKO  
WORC WSPD WWL WWVA

**C — Jose Manzanaras and Orchestra**

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

**R — Dream Drama**

KYW WBEN WCAE WCSH WDAF  
WEAF WEEI WFBR WGY WJAR  
WMAQ WRC WSAI WTAG WTAM  
WTV WWJ

**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 Himber and Orchestra**  
KSD KYW WBEN WCAE WCSH  
WDAF WEAF WEEI WFBR WGY  
WHO WHIO WIRE WJAR WMAQ  
WOW WRC WSAI WTAG WTAM  
WTV WWJ

**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 KFPY KFRC KGB KHJ KLZ  
KMBC KMJ KMOX KOIN KOL  
KRLD KSL KVI KWG WAAB WABC  
WBBM WBNS WBT WCAO WCAU  
WCCO WDRC WFBL WFBM WGBT  
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  
WBBM WBNS WBRC WBT WCAO  
WCAU WCCO WDBJ WDRC WEAN  
WFBL WHAS WHEC 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 WBBM  
WBT WCAO WCAU WCCO WDRC  
WEAN WFBL WFBM WHAS WHEC  
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  
KTSa KTUL KWKH WABC WADC  
WBBM WBNS WBRC WBT WCAO  
WCAU WCCO WDOD WDRC WEAN  
WFBL WFBM WGR WGST WHAS  
WHEC WHK WICC WJAS WJR  
WJSV WKRC WLAC WNAC WOKO  
WOWO WREC WSPD WWL

## B — Jack Benny; Johnny Green

CFCF CRCT KDKA KFJR KOIL  
KPRC KSO KSTP KTBS KVOO KWK  
WAVE WBAL WBZ WBZA WDAY  
WEBC WENR WFAA WFIL WFLA  
WGAR WHAM WIBA WIOD WIS  
WJAX WJDX WJZ WKY WLW  
WMAL WMC WMT WOAI WPTF  
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 KTSa  
KWKH WABC WACO WADC WALA  
WBGH WBNS WBRC WBT WCAO  
WCAU WCOA WDAE WDBJ WDBO  
WDNC WDOD WDRC WEAN WFBL  
WFBM WFEA WGR WGST WHAS  
WHEC WHK WHP WIBX WICC  
WJAS WJR WJSV WKBW WKRC  
WLAC WLBZ WMAS WMBR WNAC  
WNBF WNOX WOKO WORC WQAM  
WREC WSBT WSFA WSJS WSMK  
WSPD WTOC WWL WWVA

## R — Fireside Recitals

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

## B — Ozzie Nelson; Robt. L. Ripley

KDKA KDYL KFI KFJR KGW  
KHQ KOA KOIL KOMO KPO KPRC  
KSO KSTP KTAR KVOO KWK  
WBAL WBZ WBZA WCKY WDAY  
WEBC WFAA WFLA WGAR WHAM  
WIBA WIOD WJAX WJDX WJZ  
WKY WLS WMAL WMC WMT  
WOAI 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 WBNB

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

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

### R — Major Bowes' Amateur Hour

CFCF CRCT KDYL KFI KFJR  
KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTAR KVOO KYW  
WAVE WBNB WBY WBZA WCAE  
WCSH WDAF WDAY WDAF WEBC  
WFAA WFBW WFLA WGY WHO  
WIOD WIS WJAR WJAX WJDX  
WKY WLW WMAQ WMC WOAI  
WOW WPTF WRC WRVA WSB  
WSM WSMB WTAG WTAM WTAR  
WTIC WTMJ WWJ WWNC

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

### C — Ford Concert

CFRB CKAC KDB KERN KFAB  
KFBK KFH KFPY KFRC KGB  
KGKO KHJ KLRA KLZ KMBC KMJ  
KMOX KOH KOIN KOL KOMA  
KRLL KRNT KSCJ KSL KTRH  
KTSa KTUL KVI KVOR KWG  
KWKH WABC WACO WADC WALA  
WBBM WBGH WBNS WBRC WBT  
WCAO WCAU WCCO WCOA WDAE  
WDBJ WDBO WDNC WDOD WDRC  
WEAN WFBL WFBM WFEA WGST  
WHAS WHEC WHK WHP WIBW  
WIBX WICC WISN WJAS WJR  
WJSV WKBW WKBW WKBW WKRC  
WLAC WLBZ WMAS WMBD WMBR  
WNAC WNAX WNOX WOC WOKO  
WORC WOWO WQAM WREC WSBT  
WSFA WSJS WSMK WSPD WTOC  
WWL

## R — Manhattan Merry-Go-Round

CFCF KDYL KFI KFJR KGW KHQ  
KOA KOMO KPO KSD KSTP KYW  
WBNB WCAE WCSH WDAF WDAY  
WDAF WEBC WFBR WGY WHO  
WHIO WIBA WJAR WMAQ WOW  
WRC WSAI WTAG WTAM WTIC  
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 KFJR  
KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTBS KYW WAPI  
WAVE WBNB WCAE WCSH WDAF  
WDAY WDAF WEBC WEEI WFAA  
WFBW WFLA WGY WHO WHIO  
WIBA WIOD WIS WJAR WJAX  
WJDX WKY WMAQ WMC WOAI  
WOW WPTF WRC WRVA WSAI  
WSB WSM WSMB WSOC WTAG  
WTAM WTAR WTMJ WWJ WWNC

## B — 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 WBBM  
WBNS WCAO WCAU WCCO WDRC  
WFBL WFBM WHAS WHK WIBW  
WJAS WJR WJSV WKBW WKRC  
WOKO WSPD WWL

## R — General Motors Concert

CFCF CRCT KDYL KFI KFSD  
KFJR KGHL KGIR KGU KGW  
KHQ KOA KOMO KPO KPRC KSTP  
KTAR KTBS KTHS KYW WAPI  
WAVE WBAF WBNB WCAE WCSH  
WDAF WDAY WDAF 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 WTAR WTIC 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 WBGH WBRC  
WBT WCAO WCAU WDAE WDBJ  
WDBO WDNC WDOD WDRC WEAN  
WFEA WGST WICC WJSV WLAC  
WLBZ WMAS WMBG WMBR WNAC  
WORC WQAM WREC WSJS WTOC

## C — Jack Hylton and Orchestra

KFAB KFH KLZ KMBC KMOX  
KRNT KCSJ KVOR WBBM WCCO  
WFBM WIBW 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 KFBK KFPY KFRC  
KGB KHJ KMJ KOIN KOL KSL  
KVI KWG

## R — The Melody Master

KYW WBNB WCAE WDAF WEEI  
WFBR WGY WJAR WMAQ WRC  
WTAG WTAM WTIC WWJ

## R — Sunset Dreams; Morin Sisters

KDYL KFI KFSD KGW KHQ KOA  
KOMO KPO KPRC KTAR KTBS  
KTHS WBAF WDAF WKY

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

### B — Walter Winchell

KDYL KFI KFSD KGHL KGIR  
KGW KHQ KOA KOMO KPO KPRC  
KTAR KTBS KTHS WAPI WAVE  
WBAF 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 KFBK KFPY KFRC  
KGB KHJ KLZ KMJ KOIN KOL KSL  
KVI KWG

## B — Jack Benny; Johnny Green

KDYL KFI KFSD 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 KFBK 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

Arceo 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; 10:00 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  
Jose Manzanera, 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, 3:00 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  
Harv 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  
Pick 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  
Magic 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

Fritz 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  
 Frederio 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 megas. 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. Neder-  
 landsch Indische-Radio Omroep Meats-  
 chappij, Koningsplein W. 5, Batavia-Centrum,  
 Java, N. E. I. Daily, 0530-1100; 1745-1845;  
 2230-0130.

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

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

1.540 megas. 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 Can-  
 adian Marconi)

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

1.566 megas. 191.46 m.  
**WIED**, Broadcast pickup. 50 watts. National Broad-  
 casting Co., 30 Rockefeller Plaza, N. Y. City  
**WIEX**, Broadcast pickup. 50 watts. Address, see  
 WIED above.

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

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

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

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

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

1.596 megas. 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.  
**YYP**, Prince Albert, Sask. Address, CFC above.  
**WPGG**, 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 megas. 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 Rocke-  
 feller 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, Wis.	
WMEF, Broadcast pickup. 150 W. National Broadcasting Co.	
....., Funtler Bay Camp, Alaska.	
1.610 megas. 186.22 m.	
....., Chicago, Ill.	
....., DeQuoin, Ill.	
....., Effingham, Ill.	
....., Macomb, Ill.	
....., Pontiac, Ill.	
....., Springfield, Ill.	
....., Sterling, Ill.	
1.615 megas. 185.65 m.	
YDB4, Tjepoe, N. E. I. 25 W. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	
1.620 megas. 185.07 m.	
CFD, Kenora, Ont. 150 W. Ontario Dept. of Lands and Forests.	
CFJ, Red Lake, Ont. Address CFD above.	
CFL, Tabouret, P. Q. 100 W. Laurentian Forest Protective Association, Ltd., 126 St. Peter St., Quebec, P. Q.	
CFM, Manicouagan River Estuary, P. Q. 100 W. Address CFL above.	
CZB, Bellevue, P. Q. 100 W. Address CFL above.	
CZY, Riviere du Chef, P. Q. 100 W. Address CFL above.	
CZZ, St. Felecion, P. Q. 100 W. Address CFL above.	
1.622 megas. 184.85 m.	
KGXU, Port Armstrong, Alaska. Buchan & Heinen.	
KHP, Deep Cove, Alaska. (KIJV) Atlas Packing Co.	
KIED, Broadcast pickup. (KFWB, 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 megas. 183.94 m. $6\frac{1}{2}$	
WEY, Boston, Mass. Marine Fire Station.	
WKDT, Detroit, Mich. Marine Fire Station.	
YDD2, Bandoeng, Java, N. E. I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Tegallegh O. 23, Bandoeng. 0530-1100; 1745-1845; 2230-0130.	
1.634 megas. 183.48 m. $6\frac{1}{2}$	
WPHE, Marion County, Ind. 1 kW. Indiana State Police.	
WPHS, Culver, Ind. 1 kW. Municipal police.	
WPHU, Jasper, Ind. 1 kW. State of Ind., Dept. of Safety.	
WQFE, Seymour, Ind. 1 kW. State of Ind., Dept. of Public Safety.	
WQFW, Columbia City, Ind. 1 kW. State of Ind.	
1.640 megas. 182.82 m.	
YDA3, Buitenzorg, N. E. I. 25 watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	
1.642 megas. 182.59 m. $5\frac{1}{2}$	
WRDS, E. Lansing, Mich. 1 kW. night; 5 kW. day. State police.	
1.646 megas. 182.15 m.	
KNEC, Broadcast pickup. 40 w. KVI, Puget Sound Brdcastg. 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 megas. 181.71 m.	
VBY, Lunenburg, N. S. Works ships. Lunenburg Sea Products Ltd. Operated by Canadian Marconi.	
1.658 megas. 180.83 m. $5$	
KNHD, Redwood Falls, Minn. 400 w. State of Minn.	
KSW, Berkeley, Calif. Municipal police.	
WPGC, S. Schenectady, N. Y. 1 kW. night; 5 kW. day. State police.	
....., Redwood Falls, Minn. 500 watts.	
1.660 megas. 180.62 m.	
YDB3, Djokja, N. E. I. 100 watts. N. V. Nederlandsch Indische Radio Omroep Moatschappij, Koningsplein W. 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	
1.666 megas. 179.96 m. $4\frac{3}{4}$	
WMP, Framingham, Mass. 1 kW. State police.	
WPEL, W. Bridgewater, Mass. 1 kW. State police.	
WPEV, Portable in Mass. 50 watts. State police.	
WPEW, Northampton, Mass. 1 kW. State police.	
WXXA, Nashville, Tenn. Municipal police.	
1.668 megas. 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 megas. 179.10 m. $4\frac{1}{2}$	
KGHK, Palo Alto, Calif. 20 watts. Municipal police.	
KGZT, Santa Cruz, Calif. 100 watts.	
KIUK, Jefferson City, Mo. State police.	
WPSF, Harrisburg, Pa. 1 kW. State police.	
1.682 megas. 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.	
W8XA, Portable in Ohio. 50 watts. Dept. of Highways, Div. of State Highway Patrol.	
1.692 megas. 177.19 m.	
WQFT, Portable in Ohio. 100 w.	



# SHORT WAVE STATIONS BY FREQUENCIES

1.698 mags.	176.57 m.	1.960 mags.	152.97 m.
KNGG, Phoenix, Ariz. 1 kW. Arizona State Highway Dept.		YDH8, Bandoeng, N.E.I. Owner: v. d. Heyden.	
1.706 mags.	175.74 m. 3	1.980 mags.	151.42 m.
—KGPC, St. Louis, Mo. City of St. Louis.		YDO8, Soerabaja, N.E.I. Owner: Gazalieuhs.	
—WKDU, Cincinnati, Ohio. City of C.		2.020 mags.	148.43 m.
—WPET, Lexington, Ky. City of L.		KNED, Broadcast pickup. 50 watts. (WBAP, Blackstone Hotel, Ft. Worth, Texas).	
1.712 mags.	175.13 m. 2 1/2	WIEO, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.	
CMPN, Havana, Cuba Police.		WMEF, Broadcast pickup. 150 watts. Address WIEO above.	
CZG, Prince Rupert, B. C., 150 watts. B. C. Provincial police.		2.050 mags.	146.25 m.
KGHY, Whittier, Calif. 30 watts. City of W.		W9XAK, Manhattan, Kans. Television. Mon., 1945-2030. Wed. 2100-2200.	
KGJX, Pasadena, Calif. 460 watts. City of P.		2.060 mags.	145.54 m.
KGPJ, Beaumont, Tex. City of B.		KIFO, Broadcast pickup. 200 watts.	
KGPL, Los Angeles, Calif. City of Los A.		KIIQ, Broadcast pickup. (KMTR Radio Corp., Hollywood).	
KGPQ, Honolulu, T. H. 500 w. City and County of H.		WNER, Broadcast pickup. 100 watts. WAIU, Deshler-Wallick Hotel, Columbus, Ohio.	
KGPR, Fort Worth, Texas. City of Ft. W.		2.070 mags.	144.84 m.
—KGZB, Houston, Tex. City of H.		YD07, Soerabaja, N.E.I. Owner: v. Wingen.	
KGZL, Shreveport, La. City of S.		2.090 mags.	143.45 m.
KGZQ, Waco, Texas. City of W.		KNEC, Broadcast pickup. KVI, Puget Sound Brd-cstg. Co., Tacoma.	
KGZY, San Bernardino, Calif. 50 watts. City of San. B.		YDG5, Batavia, Java, N.E.I. Batavia Radio Vereeniging.	
KNEJ, Pomona, Calif. 50 watts. City of P.		2.102 mags.	142.64 m.
KNGE, Cleburne, Tex. 50 watts. City of C.		KIGA, Broadcast pickup. KSTP, St. Paul Hotel, S. P. Minn.	
KNGL, Galveston, Tex. 50 watts. City of G.		KIGW, Broadcast pickup.	
KNHF, Denton, Texas. 50 w. City of D.		KNED, Broadcast pickup. 50 watts. (WBAP, Blackstone Hotel, Ft. Worth, Texas)	
—KYP, Dallas, Tex. 500 watts. City of D.		WHER, Broadcast pickup. (KDKA, Grant Bldg., Pittsburgh).	
—FYR, Montreal, P. Q. 400 watts. Police calls in French and English. City of M. Police Dept.		WIEO, Broadcast pickup. 50 watts. Address WIEO, 2.020 mags.	
—WPDB, Chicago, Ill. City of C.		WIEW, Broadcast pickup. Address WIEO, 2.020 mags.	
—WPDC, Chicago, Ill. City of C.		WIEX, Broadcast pickup. Address WIEO, 2.020 mags.	
—WPDD, Chicago, Ill. City of C.		WJER, Broadcast pickup. WTMJ, The Journal Co., 333 W. State St., Milwaukee, Wisc.	
—WPPU, Pittsburgh, Pa. City of P.		WMEF, Broadcast pickup. 150 watts. Address WIEO, 2.020 mags.	
—WPED, Arlington, Mass. Town of A.		2.110 mags.	142.09 m.
—WPEH, Somerville, Mass. City of S.		W1XH, Boston, Mass.	
—WPEI, E. Providence, R. I. E. Prov. Police Dept.		YD12, Soekaboemi, N. E. I., Batavia Radio Vereeniging.	
WPEJ, Brookline, Mass. City of B.		2.150 mags.	139.45 m.
—WPEA, Newton, Mass. City of N.		KIED, Broadcast pickup. KFWE, Warner Bros., Hollywood, Calif.	
—WPFN, Fairhaven, Mass. Address: City of New Bedford Police.		KIEO, Broadcast pickup. KFSD, U. S. Grant Hotel San Diego, Calif.	
—WPGF, Providence, R. I.		KIFI, Broadcast pickup. WDGY, Dr. Young, 909 W. Broadway, Minneapolis, Minn.	
—WPGV, Boston, Mass. 500 watts. City of B.		KIFT, Broadcast pickup. KJBS, 1380 Bush St., San Francisco, Calif.	
—WPHG, Medford, Mass. 50 watts. City of M.		KIIQ, Broadcast pickup. KMTR Radio Corp., 915 N. Formosa Ave., Hollywood, Calif.	
WQEL, Oak Park, Ill. City of O. P.		KILU, Broadcast pickup. 5 watts. KARK, N.S.L. Bldg., Little Rock, Ark.	
—WQFX, Waukegan, Ill.		WIEG, Broadcast pickup. WMCA, 1697 Broadway, N. Y. City.	
1.715 mags. to 2.000 mags. 174.82 m. to 149.91 meters Amateur Band. Phones in following countries work between 1.875 and 2.000 mags. (149.91 m. to 159.90 meters). Australia, Argentina, Canada, Ecuador, Estonia, Union of South Africa, United States of America.		WKEM, Broadcast pickup. Hearst Radio, 110 E. 58th St., N. Y. C.	
1.840 mags.	162.95 m.	WLEZ, Broadcast pickup. WJAG, Norfolk Daily News, Norfolk, Nebr.	
YDJ4, Cheribon, N. E. I. Batavia Radio Vereeniging.		2.190 mags.	136.90 m.
1.850 mags.	162.06 m.	KIIH, Broadcast pickup. KFAB, Cornhusker Hotel, Lincoln, Nebr.	
YDU5, Bandjermasin, Borneo, N. E. I. Owner: "Eureka."		KNEC, Broadcast pickup. 40 w. KVI, Puget Sound Brd-cstg. Co., Tacoma.	
1.860 mags.	161.19 m.		
YDK6, Semarang, N. E. I. Radio Vereeniging Midden Java.			
1.880 mags.	159.47 m.		
YD09, Soerabaja, N. E. I. Owner: Holvast.			
1.900 mags.	157.80 m.		
YDG6, Batavia, N. E. I. Batavia Radio Vereeniging.			
1.920 mags.	156.16 m.		
YDH9, Buitenzorg, N.E.I. Batavia Radio Vereeniging.			
1.940 mags.	154.55 m.		
YDN2, Kediri, N.E.I. Owner: Goldberg.			

## SHORT WAVE STATIONS BY FREQUENCIES

<b>WIEK</b> , Broadcast pickup. Columbia Broadcasting System, 485 Madison Ave. at 52nd St., New York City.	<b>WIEX</b> , Broadcast pickup. 50 watts. Address <b>WIED</b> above.
<b>WIEL</b> , Broadcast pickup. Address <b>WIEK</b> above.	
2.212 megs. 135.54 m.	2.396 megs. 125.14 m.
<b>VYZ</b> , High Falls, P. Q. 50 watts. James McLaren Co., Ltd.	<b>VYW</b> , Winnipeg, Man. 600 watts. Board of Police Commissioners. Tests 15, 35 and 55 minutes past each hour.
2.284 megs. 131.22 m.	2.406 megs. 124.61 m.
<b>CFT</b> , Leamington, Ont. 14 watts. Dept. of Public Works.	<b>KGHZ</b> , Little Rock, Ark. City of L. R. Police.
<b>CFX</b> , Pelee Island, Ont. 22 watts. Dept. of Public Works.	<b>KGPW</b> , Salt Lake City, Utah. City of S. L. C. Police.
<b>CKB</b> , Pictou, N. S. 15 watts. Dept. of Public Works.	....., Fort Smith, Ark.
<b>CKO</b> , Crane Island, P. Q. 15 watts. Dept. of Public Works.	2.414 megs. 124.20 m.
<b>CKP</b> , Montmagny, P. Q. 15 watts. Dept. of Public Works.	<b>KACE</b> , Olympia, Wash. 50 w. City of O.
<b>CKU</b> , Pictou Island, N. S. 15 watts. Dept. of Public Works.	<b>KCHW</b> , Centralia, Wash. 15 watts. City of C. Police.
2.290 megs. 130.93 m.	<b>KGPA</b> , Seattle, Wash. Seattle Police Dept.
<b>CFV</b> , Namu, B. C. 100 watts. British Columbia Packers, Ltd.	<b>KGPF</b> , Santa Fe, N. Mex. 25 watts. Police.
<b>CFW</b> , Bones Bay, B. C. 100 watts. Canadian Fishing Co., Ltd.	<b>KGPS</b> , Bakersfield, Calif. City of B. Police.
<b>CJE</b> , Ceepeece, B. C. 10 watts. Canadian Packing Corp.	<b>KGZA</b> , Fresno, Calif. 500 watts. City of F. Police.
<b>CJX</b> , Margaret Bay, B. C. Canadian Fishing Co., Ltd.	<b>KGZM</b> , El Paso, Texas. City of E. P. Police.
<b>CZL</b> , Humpback Bay, B. C. 100 watts. Chatham Sound Fishing & Packing Co., Ltd.	<b>KGZN</b> , Tacoma, Wash. City of T. Police.
<b>VFJ</b> , Homalke, B. C. 100 watts. Homalke Logging Co., Ltd.	<b>KGZO</b> , Santa Barbara, Calif. City of S. B. Police.
2.304 megs. 130.13 m.	<b>KGZV</b> , Aberdeen, Wash. 150 watts. City of A. Police.
<b>KBAI</b> , Ketchikan, Alaska. Forestry.	<b>KGZX</b> , Albuquerque, N. Mex. City of A. Police.
<b>KMYA</b> , Juneau, Alaska. Forestry.	<b>KNFA</b> , Clovis, N. Mex. 50 watts. City of C. Police.
2.342 megs. 128.02 m.	<b>KNFI</b> , Mt. Vernon, Wash. 50 watts. Skagit County Police.
<b>CGZ</b> , Vancouver, B. C. 400 w. Corp. of the City of V.	<b>KNFP</b> , Everett, Wash. 50 watts. City of E. Police.
2.350 megs. 127.58 m.	<b>KNGU</b> , Yakima, Wash. 100 watts.
<b>VBQ</b> , Halifax, N. S. 25 watts. Works ships in harbor.	<b>WCK</b> , Detroit, Mich. D. City Police.
<b>YDE5</b> , 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.	<b>WMO</b> , Highland Park, Mich. City of H. P. Police.
2.366 megs. 126.72 m.	<b>WPDA</b> , Tulare, Calif. 150 watts.
<b>WAKC</b> , Freehold, N. J. 100 w. Monmouth County Welfare House, Brier Hill Rd.	<b>WPDJ</b> , Passaic, N. J.
2.382 megs. 125.87 m.	<b>WPDY</b> , Detroit, Mich. City of D. Police.
<b>KGHT</b> , Brownsville, Tex. 25 watts. City of B.	<b>WPDY</b> , Atlanta, Ga. City of A. Police.
<b>KGHV</b> , Corpus Christi, Texas. 50 watts. City of C. C.	<b>WPFH</b> , Baltimore, Md. City of B. Police.
<b>KNFE</b> , Duluth, Minn. City of D. Police.	<b>WPFI</b> , Columbus, Ga. City of C. Police.
<b>KNBH</b> , Green Bay, Wisc. 50 w. City of G. B.	<b>WPGH</b> , Albany, N. Y. 500 watts. City of A. Police.
<b>WPDN</b> , Auburn, N. Y. Police.	<b>WPGJ</b> , Utica, N. Y. 100 watts. City of U. Police.
<b>WPEA</b> , Syracuse, N. Y. City of S. Police.	<b>WPGM</b> , La Grange, Ga. 50 watts.
<b>WPFM</b> , Birmingham, Ala. 400 watts. City of B. Police.	<b>WQFB</b> , Macon, Ga. 50 watts.
<b>WPGW</b> , Mobile, Ala. 400 watts. City of M. Police.	<b>WQFJ</b> , Oneonta, N. Y. 50 w. City of O.
....., Hibbing, Minn.	<b>WQFV</b> , Augusta, Ga. 250 w. City Council of A.
2.385 megs. 125.71 m.	<b>WRDR</b> , Grosse Pointe, Mich. Township of C. P.
<b>YDA2</b> , Batavia (C), Java, N. E. I. 15 j watts. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein W. Batavia Centrum, Java, N.E.I. 0530-1100 1745-1845 2230-0130.	....., Bakersfield, Calif.
2.390 megs. 125.45 m.	....., Lodi, Calif.
<b>CJW</b> , Saint John, N. B. 15 watts. Dept. of Public Safety.	2.415 megs. 124.15 m.
<b>CJZ</b> , Verdun, P. Q. 20 watts. City of V. Police.	<b>YDE4</b> , 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.
<b>WIED</b> , Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.	2.416 megs. 124.09 m.
	<b>CZG</b> , Prince Rupert, B. C. 150 watts. B. C. Provincial Police.
	2.422 megs. 123.79 m.
	<b>KGPE</b> , Kansas City, Mo. City of K. C. Police.
	<b>KGPG</b> , Vallejo, Calif. City of V. Police.
	<b>KGZC</b> , Topeka, Kans. City of T. Police.
	<b>KNFF</b> , Leavenworth, Kans. 100 watts. City of L.
	<b>KNGF</b> , Sacramento, Calif. 500 watts.
	<b>KNGV</b> , Salina, Kans., 50 w. City of S.
	....., Eureka, Calif.
	<b>WMJ</b> , 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.

**KGHX**, Santa Ana, Calif. 400 watts. Orange county Police.  
**KGPB**, Minneapolis, Minn. 500 watts. City of M.  
**KGZI**, Phoenix, Ariz. Municipal Police.  
**KNGP**, Shreveport, La. 100 watts.  
**WPDI**, Columbus, Ohio. Franklin County Police.  
**WPDN**, Dayton, Ohio. City of D. Police.  
**WPDN**, 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.

**WPDE**, 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.  
**WPED**, Grand Rapids, Mich. 500 watts. City of G. R.

**WPES**, Saginaw, Mich. City of S. Police.  
**WPFK**, Muskegon, Mich. City of M. Police.  
**WPFJ**, Reading, Pa. City of R. Police.

**WPFJ**, Jacksonville, Fla. City of J. Police.  
**WFFT**, Lakeland, Fla. 50 watts. City of L. Police.

**WPFY**, 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.

**WPGI**, 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.  
**WQFQ**, 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.

**KGPB**, 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.

**KNCT**, 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**, Peterburg, Va. 50 w. City of P.

**YDB2**, Semarang, N. E. I. 150 watts. N. V. Nederlandsche Indische Radio Omroep Maatschappij, Koningsplein West 3, Batavia-Centrum, Java, N. E. I. 0510-2100; 1745-1845; 2210-0110.

..... , 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.

**WPDG**, Youngstown, Ohio. 250 w. City of Y.  
**WPDO**, Akron, Ohio. 250 w. City of A. Police  
**WPDF**, Charlotte, N. C. City of C. Police.

**WPFS**, Asheville, N. C. 200 watts. Buncombe County Police.  
**WPGD**, Rockford, Ill. City of R. Police.

**WPHD**, Steubenville, Ohio. 100 watts.  
**WQFZ**, Ottawa, Ill. 250 w. La Salle County Police.

**WRRH**, Cleveland, Ohio. City of C.

2.466 megs. 121.51 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.  
**KGZG**, 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.

**WPFV**, Pawtucket, R. I. City of P. Police.  
**WPFW**, Bridgeport, Conn. 50 w. City of B. Police.

**WPGA**, Bay City, Mich. City of B. C. Police.  
**WPGB**, Port Huron Mich. City of P. H. Police.  
**WPGK**, Cranston, R. I. 50 w. City of C. Police.

**WPGX**, Worcester, Mass. 100 watts. City of W. Police.  
**WPHA**, Fitchburg, Mass. 50 watts. City of F. Police.

**WPHN**, Tampa, Fla. 100 w. City of T. Police.  
**WPHP**, Jackson, Mich. 50 w. City of J. Police.  
**WQFA**, New Haven, Conn. 100 watts.

**WQFC**, Gainesville, Fla. 50 watts.  
**WQFK**, Clearwater, Fla. 50 w. City of C.

2.474 megs. 121.19 m.

**KGHC**, 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.  
**WDDP**, 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.  
**WPCT**, New Castle, Pa. 50 watts. City of N. C. Police.  
**WPIIZ**, 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.  
**KGHQ**, Chinook Pass, Wash. 10 watts. State of W., Highway & Police.  
**KGHR**, Portable in Wash. 10 watts. State of Wash.  
**KGZD**, San Diego, Calif. City of S. D. Police. Two transmitters, one 50 watts and another, 100 watts.  
**KGZU**, Lincoln, 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**, Hells Crossing Camp, Wash. 10 watts.  
**KNGA**, Satus Pass Camp, Wash. 10 watts.  
**KNGB**, Yakima, Wash. 50 watts.  
**KNCC**, Vancouver, Wash. 50 watts.  
**KNCD**, Walla Walla, Wash. 10 watts.  
**KNCJ**, El Centro, Calif. 50 watts.  
**KNCN**, Norfolk, Nebr. 25 watts.  
**KNCQ**, Wenatchee, Wash. 50 watts. Address KNFS.  
**KNCR**, Spokane, Wash. 50 w. Address KNFS.  
**KNGZ**, Ephrata, Wash. 10 w. State of W.  
**WAKA**, Huntington, Ind. 50 w. City of H.  
**WPDJ**, Kokomo, Ind. City of K. Police.  
**WPDZ**, Fort Wayne, Ind. City of F.W. Police.  
**WPFJ**, Clarksburg, W. Va. City of C. Police.  
**WPGN**, South Bend, Ind. 100 watts. City of S. B. Police.  
**WPGO**, Huntington, N. Y. 25 watts. Town of H. Police.  
**WPGS**, Mineola, N. Y. County of Nassau Police.  
**WPHI**, Charleston, W. Va. 50 watts. City of C. Police.  
**WPHJ**, Fairmont, W. Va. 100 watts.  
**WPHQ**, Parkersburg, W. Va. 50 watts. City of P. Police.

2.506 megs.      119.64 m.

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

2.512 megs.      119.36 m.

**KGM**, Ketchikan, Alaska. Alaska Pacific Salmon Co.  
**KLB**, Port Althorp, 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, Leonino; WIDM,  
 Sally S.; WIDN, Virginia E.; WNFN, Alca.

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 KIJB, KLA, KFF, KLD daily at 0130. Owner: A. R. Brueger.  
**KDV**, Cordova (Eyak River), Alaska. Pioneer Sea Foods Co.  
**WNFG**, M. S. Arb No. 3. Owner: A. R. Bureger.

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**, Napoleon, Mo. 500 watts. United States Army.

2.616 megs.      114.61 m.

**KAEB**, Hyaburg, Alaska. 40 w. Territory of A.  
**KAED**, Angoon, Alaska. 40 w. Territory of A.  
**KAEF**, Jack Wade, Alaska. 40 w. Territory of A.  
**KION**, Tia City, Alaska. 200 w. American Tin Fields, Inc.  
**KIUQ**, Igloo, Alaska. 50 w. H. H. Burkher.  
 . . . . ., Deering, Alaska.  
 . . . . ., Kasloff, 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**, Kadiak Island, Alaska. Kadiak Fisheries Co.  
**KIMA**, Port Hobron, Alaska. American Pacific Whaling Co.

## SHORT WAVE STATIONS BY FREQUENCIES

<p>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 (Raspberry Straits), Alaska. 50 watts. Southwestern Herring Co.                      KIOI, Akutan, Alaska. 50 watts. American Pacific Whaling Co.                      ..... , Funter Bay Camp, Alaska.</p> <hr/> <p style="text-align: center;">2.670 megs.                      112.29 m.</p> <p>NMC, Point Bonita, Calif. 200 watts. United States Coast Guard.                      NMD, Cleveland, Ohio. 200 watts.                      NMF, Winthrop, Mass. 200 watts. U. S. Coast Guard.                      NMG, Mobile, Ala. U. S. Coast Guard.                      NMN, Cape Henry, Va. 200 watts. U. S. Coast Guard.                      NMP, Wilmette, Ill. 200 watts.                      NMV, Fort Lauderdale, Fla. 200 watts. U. S. Coast Guard.                      NMW, Grays Harbor, Wash. 200 watts.                      NMY, Rockaway Point, N. Y. 200 watts. U. S. Coast Guard.                      NOB, Buffalo, N. Y. 200 watts. U. S. Coast Guard.                      NOF, St. Petersburg, Fla. 200 watts. U. S. Coast Guard.                      NOG, Gloucester, Mass. 50 watts. U. S. Coast Guard Base 7.                      NOJ, San Pedro, Calif. 200 watts. U. S. Coast Guard Base 17.                      NOM, Miami, Fla.                      NOP, Woods Hole, Mass. 50 watts. U. S. Coast Guard, Section Base 18.                      NOR, Sault Ste. Marie, Mich. 200 watts.                      NOU, New London, Conn. 200 watts. U. S. Coast Guard.                      NOV, Cape May, N. J. 200 watts. U. S. Coast Guard.                      NOY, Galveston, Texas. 200 watts.                      NOZ, Port Townsend, Wash. 200 watts.                      ..... , Yaquina Bay, Ore. U. S. C. G.</p> <hr/> <p style="text-align: center;">2.698 megs.                      111.13 m.</p> <p>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.</p> <hr/> <p style="text-align: center;">2.710 megs.                      110.63 m.</p> <p>YDK5, Semarang, N. E. I. Radio Vereniging Midden-Java.</p> <hr/> <p style="text-align: center;">2.726 megs.                      109.98 m.</p> <p>KIIW, San Gabriel Dam No. 2, Calif. 200 watts. Los Angeles County Flood Control District.                      KIIIX, Tujunga Dam No. 1, Calif. Address KIIW above.                      KIIY, Los Angeles, Calif. 400 watts. Address KIIW above.                      KINT, Portable, Los Angeles County, Calif. 50 watts. Address above.</p> <hr/> <p style="text-align: center;">2.728 megs.                      109.90 m.</p> <p>KIJY, Hood River, Ore. 100 watts. Special emergency station owned by Crag Rats, Inc., a mountain-climbing organization.                      KIJZ, Portable in Oregon. See above.</p> <hr/> <p style="text-align: center;">2.738 megs.                      109.50 m.</p> <p>KLGG, 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. Pencin.                      WLFQ, Yacht "Holjim". 40 w. J. V. Griffith, Tacoma, Wash.                      WLFS, "Uganik." San Juan Fishing &amp; Packing Co.                      WOFM, "Principia." L. A. Macomber.</p>	<p>WOFW, Yacht "Gallant Lady," 40 w. M. C. Riggs. Tacoma, Wash.</p> <hr/> <p style="text-align: center;">2.750 megs.                      109.03 m.</p> <p>YDL6, Djokjakarta, N. E. I. Owner: v. Wingen.</p> <hr/> <p style="text-align: center;">2.760 megs.                      108.63 m.</p> <p>WIEO, Broadcast pickup. 50 watts. N. B. C., 30 Rockefeller Plaza, N. Y. City.                      WMEF, Broadcast pickup. 150 watts. Address WIEO above.</p> <hr/> <p style="text-align: center;">2.770 megs.                      108.24 m.</p> <p>YDO6, Soerabaja, N. E. I. Owner: Eureka.</p> <hr/> <p style="text-align: center;">2.790 megs.                      107.46 m.</p> <p>YDN3, Madioen, N. E. I. Owner: v. Wingen.</p> <hr/> <p style="text-align: center;">2.810 megs.                      106.70 m.</p> <p>YDQ6, Malang, N. E. I. Owner: v. Wingen.</p> <hr/> <p style="text-align: center;">2.830 megs.                      105.94 m.</p> <p>KNEC, Broadcast pickup. 40 w. Puget Sound Broadcast Co., Tacoma, Wash.                      KNEF, Broadcast pickup. 200 w. KSL, Salt Lake City.                      YDU4, Medan, Sumatra, N. E. I. Owner: Avrom.</p> <hr/> <p style="text-align: center;">2.850 megs.                      105.20 m.</p> <p>YDG4, Batavia, Java, N. E. I. Owner: Lindeteves Stokvis.</p> <hr/> <p style="text-align: center;">2.870 megs.                      104.47 m.</p> <p>YDA6, Cheribon, N. E. I. 15 watts.                      YDJ3, Tegal, N. E. I. Owner: v. Wingen.</p> <hr/> <p style="text-align: center;">2.910 megs.                      103.03 m.</p> <p>YDE3, Semarang, N. E. I. 15 watts.                      YDK3, Semarang, N. E. I. Owner: v. Wingen.</p> <hr/> <p style="text-align: center;">2.912 megs.                      102.96 m.</p> <p>KHW, Akutan, Alaska. American Pacific Whaling Co.                      KHZ, Port Hobron, Alaska. Address KHW.</p> <hr/> <p style="text-align: center;">2.930 megs.                      102.33 m.</p> <p>WMEP, Suffield, Ohio. 400 watts.                      WMEU, St. Petersburg, Fla. 400 watts.                      WMEV, Opa Locka, Fla. (Goodyear Zeppelin Base). 400 watts.                      WDO5, Soerabaja, N. E. I. Owner: Goldberg.</p> <hr/> <p style="text-align: center;">2.950 megs.                      101.63 m.</p> <p>YDQ5, Malang, N. E. I. Owner: Vis.</p> <hr/> <p style="text-align: center;">2.980 megs.                      100.61 m.</p> <p>CZA, Drummondville, P. Q. 4 kW. Phones ships. Canadian Marconi Co., Box 1690, Montreal, P. Q.</p> <hr/> <p style="text-align: center;">2.986 megs.                      100.41 m.</p> <p>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 &amp; 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.</p> <hr/> <p style="text-align: center;">2.994 megs.                      100.14 m.</p> <p>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. Growden.                      KIIJ, Tanana, Alaska. Northern Commercial Co.                      KIIK, Circle, Alaska. 50 watts. Phones Fairbanks, Anchorage, etc. Northern Commercial Co.                      KIIL, Fort Yukon, Alaska. 50 watts. Phones WXP</p>
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## SHORT WAVE STATIONS BY FREQUENCIES

Fairbanks, and WXE Anchorage. Northern Commercial Co.		3.200 megas.	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.	
KII0, McGrath, Alaska. 50 watts. See KIIL above.		KBCC, Mt. Shasta, Calif. Forestry.	
KIJB, Cape Pole, Alaska. 50 watts. R. Brueger.		3.210 megas.	93.49 m.
KILY, Excursion Inlet, Alaska. 50 watts. Asteria & Puget Sound Canning Co.		YDL5, Djokjakarta, N. E. I. Owner: Helant Muller.	
KNBZ, Pillar Bay, Alaska. (KDY) Address KDY above.		3.230 megas.	92.82 m.
		YDQ4, Malang, N. E. I. Owner: Radlnova.	
3.040 megas.	98.62 m.	3.250 megas.	92.25 m.
CFQ, Edmonton, Alta. Edmonton Journal, Ltd.	CGE, Calgary, Alta. 100 watts. Calgary Herald Ltd., Southam Bldg.	YDH5, Garoot, Java, N. E. I. Bandoeng Radio Vereeniging.	
CKS, Portable. 100 watts. Calgary Herald; see above.	YDA, Tandjongplok, N. E. I. 10 kW. N. V. Nederlandsche Indische Radio Omroep Moetschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.	3.265 megas.	91.83 m.
3.070 megas.	97.66 m.	KAEB, Hydraburg, Alaska. 40 w. Territory of A.	
CJU, Winnipeg, Man. Canadian Airways, Ltd. (Western Lines), 60 Brock St., Winnipeg.	WKDL, Miami, Fla. (airway).	KIBZ, Waterfall, Alaska. Nakat Packing Corp.	
WMDU, San Juan, Puerto Rico. (airway).		KICE, Nakeen, Alaska. Nakat Packing Corp.	
		KICG, Union Bay, Alaska. Nakat Packing Corp.	
3.093 megas.	96.94 m.	KIDE, Hidden Inlet, Alaska. Nakat Packing Corp.	
KAED, Angeon, Alaska. 40 w. Territory of A.	KIAP, Rose Inlet, Alaska. 100 watts. Alaska Pacific Salmon Co.	KIKY, Saldevia, Alaska. 40 watts. Adam W. Lipke.	
KIAW, Port Althorp, Alaska. Address KIAP above.	KIAY, Ketchikan, Alaska. Address KIAP above.	3.270 megas.	91.69 m.
KIBA, Kake, Alaska. Address KIAP above.	KIC1, Vlaw Cove, Dall Island, Alaska. 50 watts. Superior Portland Cement Co.	YDA7, Pekalongan, N. E. I. 15 watts.	
KIIP, Willow Creek Mines, Luckysshot, Alaska. 30 watts. Phones Anchorage. Owner: W. E. Dunkle.	KIKN, Eyak River, Alaska. 50 watts. Pioneer Sea Foods Co.	YDJ2, Pekalongan, N. E. I. Owner: v. Wingen.	
KIUZ, Hoonah, Alaska. 40 w. Territory of A.		YDK4, Magelang, N. E. I. Owner: v. Wingen.	
3.125 megas.	95.94 m.	3.290 megas.	91.13 m.
SHIPS work between 3.125 and 3.147 megas. (95.27 to 95.94 meters).	A number of SHIPS are listed on 4.413 megas. and 4.430 megas. We do not know definitely which of these ships work also on 3.125-3.147 megas. Reports of actual reception from listeners are invited.	YDO3, Soerabaja, N. E. I. Owner: Radio Electric.	
3.130 megas.	95.79 m.	3.300 megas.	90.85 m.
YDH6, Bandoeng, N. E. I. Owner: Prot. Kerk.		CZV, Waterloo Mine, B. C. Waterloo Gold Mines Ltd.	
3.150 megas.	95.18 m.	KBAT, Olympia, Wash. Forestry.	
YDG3, Batavia, Java, N. E. I. Owner: Luyks.		KBAU, Quilcene, Wash. Forestry.	
3.152 megas.	95.12 m.	KBCQ, Boise, Idaho. Forestry.	
CGM, Montreal, P. Q. Canadian Marconi Co., Box 1690, M. Phones CGY.	CGY, Yamachicho, P. Q. Phones CGM. Address CGM above.	YDG7, Batavia, Java, N. E. I. Owner: Planohandel Kok.	
3.155 megas.	95.03 m.	3.310 megas.	90.58 m.
KBCJ, San Francisco, Calif. Weather Bureau.		YDH4, Bandoeng, Java, N. E. I. Owner: Luyks.	
3.170 megas.	94.58 m.	3.320 megas.	90.31 m.
YDO4, Soerabaja, N. E. I. Owner: Jarico.		YDM2, Tjopoe, N. E. I. Radio Vereeniging.	
3.190 megas.	93.99 m.	3.330 megas.	90.04 m.
KI1J, Tanana, Alaska. Northern Commercial Co.	KI1K, Circle, Alaska. 50 watts. Phones Fairbanks and Anchorage. Northern Commercial Co.	YDV2, Bandjermasin, Borneo, N. E. I. Owner: Eureka.	
KI1L, Fort Yukon, Alaska. 50 watts. See KI1K above.	KI1M, Hot Springs, Alaska. 50 watts. See KI1K above.	3.340 megas.	89.77 m.
KI1N, Eagle, Alaska. 50 watts. See KI1K above.	KI1O, McGrath, Alaska. 50 watts. See KI1K above.	CGD, Drummondville, P. Q. Private station of Canadian Marconi Co., P. O. Box 1690, Montreal, P. Q.	
YDK2, Semarang, N. E. I. Owner: Wels.		CGM, Montreal, P. Q. Private CMC station. Address CGD above.	
		3.345 megas.	89.63 m.
		SP33, Weaverville, Calif. Forestry.	
		3.350 megas.	89.50 m.
		YDQ3, Malang, N. E. I., operated by Malangsche Radio Vereeniging. Owner: W. Lammerce, c/o Radio-Technisch Bureau Lammerce, Bromostraat 21a, Malang.	
		3.385 megas.	88.57 m.
		KBAA, Portland, Ore. Forestry.	
		KBCA, Santa Barbara, Calif.	
		KBCB, Santa Barbara, Calif.	
		KBCC, Yreka, Calif.	
		KBCH, Oakland, Calif.	
		3.387 megas.	88.50 m.
		KGYA, Longmire, Wash. Forestry station. Address Mr. R. D. Waterhouse, Mount Ranier National Park, Longmire.	
		KGYB, Longmire, Wash. Address KGYA above.	
		KGYC, Paradise Inn, Mt. Ranier National Park, Longmire, Wash.	
		KGYD, 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 mags. 88.44 m.
YDQ2, Djember, N. E. I. Owner: v. Wingen.	3.390 mags. 88.44 m.
KBAD, Spokane, Wash. KNKG, Ash Mt., Sequoia Natl. Park, Calif. KNLO, Death Valley National Monument, Calif. KNLP, Wild Rose Canyon, Death Valley, Calif. KNLQ, 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.	3.410 mags. 87.92 m.
WOZ, New York, N. Y. American Telephone & Telegraph Co., 32 Sixth Ave., N. Y. C.	3.423 mags. 87.59 m.
YDO2, Soerabaja, N. E. I. Owner: Soekaradio.	3.430 mags. 87.41 m.
KBAM, Grants Pass, Ore. Forestry. KBCD, North Fork, Calif. CCC Co. 988, North Fork KBCE, North Fork, Calif. KBCF, North Fork, Calif.	3.445 mags. 87.03 m.
YDL3, Solo, N. E. I.	3.450 mags. 86.90 m.
CJU, Winnipeg, Man. Canadian Airways Ltd. (Western Lines), 60 Brock St., Winnipeg.	3.452 mags. 86.85 m.
YDG2, Batavia, Java, N. E. I. Owner: Batavia Radio Vereeniging.	3.470 mags. 86.40 m.
YDH3, Bandoeng, Java, N. E. I. Owner: de Kort.	3.490 mags. 85.91 m.
W7XK, Seattle, Wash. 80 watts. Northern Radio Co., Kullen Bldg.	3.493 mags. 85.83 m.
AMATEURS WORK BETWEEN 3.500 and 4.000 mags. (74.96 to 85.56 meters). Phones between 3.900 and 4.000 mags.	
CT1CT, Lisbon, Portugal. 500 watts. "Radio Eddy-Stone." Sr. Oscar G. Lomellino, Rua Gomez Friere 79, 2-D, Lisbon. Daily, 0900-1100.	3.750 mags. 79.95 m.
ZP11, Asuncion, Paraguay.	3.800 mags. 78.90 m.
CT2AJ, Ponta Delgada, Azores. 50 watts. Mr. H. E. J. Smith, St. Michael, Ponta Delgrada. Wed., Sat., 1700-1900.	4.000 mags. 74.96 m.
WND, Hialeah, Fla. 400 watts. Phones ZFS Nassau.	4.098 mags. 73.16 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.	4.122 mags. 72.74 m.
KIFM, Fairbanks, Alaska. Airway.	4.124 mags. 72.70 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.	4.178 mags. 71.76 m.
YT2, Fort Lewis, Wash. Army Airway.	4.200 mags. 71.39 m.
....., Tavernier, Fla.	4.243 mags. 70.66 m.
WKF, Lawrenceville, N. J. A. T. & T. Address WOO above. WOG, Ocean Gate, N. J.	4.253 mags. 70.50 m.
RV15, Khabarovsk, USSR (Siberia). 20 kW. "Far East Radio Station." Announcements in Russian, Chinese, English. Never verifies; mailing address unknown. Daily, 0300-0900.	4.273 mags. 70.16 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.	4.276 mags. 70.11 m.
IBEJ, S. S. Conte Rosso. Works IAC, WOO. IBGI, S. S. Conte Verde. Works IAC, WOO. IBLI, S. S. Conte di Savola. Works IAC, WOO. ICEJ, S. S. Rex. Works IAC, WOO.	4.280 mags. 70.05 m.
WTDV, St. Thomas, Virgin Islands. 250 watts. Mr H. M. McKenzie. WTDW, St. Croix, Virgin Islands. 250 watts. WTDX, St. John, Virgin Islands. 250 watts.	4.295 mags. 69.81 m.

## SHORT WAVE STATIONS BY FREQUENCIES

4.320 megs.	69.40 m.	4.505 megs.	66.55 m.
DAF, Norden, Germany. Phones ships. Hauptfunkstelle Norddeich, Norden-Land, Germany.		CGO, Ocean Falls, B. C. North-West Telephone Co.	
GDB (G6RX), Rugby, England. 15 kW. Engineer-in-Chief, GPO (Radio Section), Armour House, St. Martins Le Grand, London EC1, England.		CZO, Prince George, B. C. Address CGO above.	
		CZP, Claydon Bay, B. C. Address CGO above.	
4.348 megs.	68.92 m.	4.512 megs.	66.44 m.
CGA9, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.		ZFS, Nassau, Bahamas. Works WNC Hialeah. Office of Supt. of Telegraphs, Central Bay St., Nassau N. P., Bahamas.	
4.355 megs.	68.84 m.	4.535 megs.	66.11 m.
IAC, Coltano, Italy. 56 kW. Phones ships. Radiomarittimo Coltano Radio IAC, Piza, Italy.		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.	4.550 megs.	65.89 m.
FNSK, S. S. Normandie. Works Paris. French Lines, Pier 88, North River, Foot of W. 48th St., N. Y. C.		WDN (W2XBJ), Rocky Point, N. Y. Address WDG, 4.535 megs.	
4.400 megs.	68.14 m.	4.580 megs.	65.46 m.
RRZ, Moscow, U. S. S. R. 1 kW.		DJG, Zeesen, Germany. Reichs-Rundfunk-Gesellschaft, Haus des Rundfunks, Masurenallee, Berlin-Charlottenburg 9, Germany.	
4.410 megs.	67.99 m.	4.600 megs.	65.18 m.
FNSK, S. S. Normandie. Works WOO. Address 4390 megs.		HCZET, Guayaquil, Ecuador. Interval sig.: 12 chimes. P. O. Box 249. Fri., Sat., 2130-2300.	
4.413 megs.	67.94 m.	4.610 megs.	65.05 m.
All these ships work with WOO. The German ships also work DAF; British ships with GBC:		KMYA, Juneau, Alaska. Forestry.	
DDBR, S. S. Berlin. North German Lloyd, Pier 42, North River. Foot of Morton St., N. Y. City.		4.710 megs.	63.66 m.
DDCP, S. S. Cap Polonio.		YDU2, Medan, Sumatra, N. E. I. Owner: Avroni.	
DDFF, S. S. Reliance.		4.753 megs.	63.08 m.
DDFT, S. S. Oceana.		WOO Ocean Gate, N. J. Phones ships. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C.	
DHAO, S. S. Hansa. Hamburg American Lines, Pier 86, North River, W. 46th St., N. Y. C.		WOY, Lawrenceville, N. J. 20 kW. Address WOO above.	
DHDL, S. S. Cap Arcona.		4.755 megs.	63.05 m.
DHEY, S. S. Deutschland.		CFU, Rossland, B. C. Consolidated Mining & Smelting Co.	
DHJZ, S. S. Hamburg. Address DHAO above.		4.785 megs.	62.66 m.
DHRL, S. S. New York. Address DHAO above.		CZA, Drummondville, P. Q. Phones ships. Canadian Marconi, Box 1690, Montreal.	
DOAH, S. S. Bremen. North German Lloyd, Pier 4, Foot of 58th St., Brooklyn, N. Y.		4.810 megs.	62.33 m.
DOAI, S. S. Europa. Address DOAH, above.		YDE2, Solo, N. E. I. 100 watts.	
FNSM, S. S. Paris. French Lines, Pier 57, Hudson River, New York City.		YDL2, Solo, N. E. I. Owner: Solosche Radio Vereeniging.	
FTNQ, S. S. Ile de France. Address FNSM above.		4.820 megs.	62.20 m.
GFWW, S. S. Majestic. Address GBZW above.		GDW, Rugby, England. Phones N. Y. Engineer-in-Chief, GPO. (Radio Section), Armour House, St. Martins Le Grand, London EC1.	
GMBJ, S. S. Empress of Britain.		4.840 megs.	61.95 m.
4.415 megs.	67.91 m.	CZV, Waterloo Mines, B. C. Waterloo Gold Mines, Inc.	
GBZW, S. S. Berengaria. International Marine Radio Co., Ltd., Connaught House, 63 Aldwych, London WC2, England.		4.865 megs.	61.63 m.
GLRZ, S. S. Aquitania. Address GBZW.		CGT, Campbell River, B. C. North-West Telephone VDO, Vancouver, B. C. 400 w. North-West Telephone Co., 768 Seymour St.	
4.430 megs.	67.68 m.	4.875 megs.	61.50 m.
GBC, Rugby, England, Works ships. Address GDB, 4.320 megs.		RKF, Moscow, USSR. 20 kW.	
GDLJ, S. S. Homeric.		4.975 megs.	60.27 m.
VQJM, S. S. Monarch of Bermuda.		GBC, Rugby, England. 5kW. Phones ships. Address GDW, 4.820 megs.	
VQJP, S. S. Queen of Bermuda.		4.988 megs.	60.11 m.
4.436 megs.	67.59 m.	WWAD, S. S. Violet. Works Lighthouses on Great Lakes.	
VDO, Vancouver, B. C. 400 w. North-West Telephone Co., 768 Seymour St.		5.000 megs.	59.96 m.
4.465 megs.	67.14 m.	WWV, Beltsville, Md. 1 kW. Standard frequency service, Wed., 1430-1530. Nat'l Bureau of Standards, Washington, D. C.	
CFA2, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.			
4.470 megs.	67.07 m.		
YDB, Soerabaja, N. E. I. 1 kW.			
4.490 megs.	66.78 m.		
VDC, Calgary, Alta. Two Bros. Valley Gold Mines, Ltd.			
VDV, Two Brothers Lake, B. C. Address VDC, Calgary.			



## SHORT WAVE STATIONS BY FREQUENCIES

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

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

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

5.078 megs. 59.06 m.  
WCN, Lawrenceville, N. J. Works GDW nites. AT&T,  
32 Sixth Ave., N. Y. C.  
....., Big Pine Key, Fla.

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

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

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

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

5.265 megs. 56.96 m.  
WQN, Rocky Point, N. Y. Address WDG, 4,535 megs.

5.300 megs. 57.57 m.  
ZFO, Cat Cay, Bahamas. 50 watts. Address ZFS,  
4,512 megs.

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

5.400 megs. 55.52 m.  
CGP, Prince Rupert, B. C. North-West Telephone  
Co., 768 Seymour St., Vancouver.

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

HJA7, Cucuta, Colombia. Colombian Petroleum  
Corporation.

5.405 megs. 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 megs. 55.37 m.  
IAF, Fiumicino, Italy. 5 kW.

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

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

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

5.505 megs. 54.46 m.  
WQN, Rocky Point, N. Y. Address WDG, 4,535 megs.

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

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

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

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

5.660 megs. 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 megs. 52.51 m.  
JDZ, Darien. Works JVU Nazaki.

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

5.725 megs. 52.37 m.  
I2RD, Rome Italy. Address EIAR, 5,550 megs.

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

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

5.780 megs. 51.87 m.  
CMB, Havana, Cuba. Cuba Transatlantic Radio Corp.  
OAX4D, Lima, Peru. "Radio DUSA." Interval sig.:  
2 cuckoos. "The Voice of Peru." Sign off:  
"A Perfect Day." All America Cables, Box  
858. Wed., Sat., 2100-2330.

5.790 megs. 51.78 m.  
JVU, Nazaki, Japan. 10 kW. Works JZA-B-C. Ad-  
dress JVJ, 5,730 megs.

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

5.800 megs. 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 megs. 51.60 m.  
YV7RMO, Maracaibo, Venez. "Radiodifusora Mara-  
caibo."

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

5.820 megs. 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 megs. 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 megs. 51.43 m.  
CWD, Montevideo, (Cerrito), Uruguay. 1.5 kW.  
JZC, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works  
JVI, JVO, JVU. Address: Manchukuo Tele-  
phone & Telegraph Co., Ltd.

## SHORT WAVE STATIONS BY FREQUENCIES

5.845 megs.	51.30 m.	clonal" Relays TGW. address: Ministerio de Fomento.
<b>KRO</b> , Kahuku, Oahu, T. H. (Off the air?) ....., Kahuku, T. H. To work GMBJ.		<b>XEBT</b> , 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.
5.850 megs.	51.25 m.	<b>XGOX</b> , Nanking, China (proposed). Administration of Central Broadcasting Stations, Central Executive Committee of Kuomintang, Nanking.
<b>WOB</b> , Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. C.		
<b>YV5RMO</b> , Maracalbo, Venezuela. "Ecos del Caribe" (member Cadena 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.		
5.865 megs.	51.12 m.	6.005 megs. 49.93 m.
<b>H11J</b> , San Pedro de Macoris, D. R. Daily 1700-2030.		<b>VE9DN</b> , Drummondville, P. Q. Canadian Marconi Co., P. O. Box 1690, Montreal.
5.875 megs.	51.03 m.	<b>VE9DR</b> , Montreal, P. Q. Address VE9DN above.
<b>HRN</b> , Tegucigalpa, Honduras. 400 w. "La Voz de Honduras." Daily 2000-2200.		6.006 megs. 49.92 m.
<b>YV8RB</b> , Barquisimeto, Venezuela. "La Voz de Lara."		<b>HJ1ABJ</b> , Santa Marta, Colombia. 50 watts. "La Voz de Santa Marta." Member Cadena Indo-Americana. Sr. Julio A. Sanchez T.
5.890 megs.	50.90 m.	6.010 megs. 49.89 m.
<b>JIC</b> , Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.		<b>COCO</b> , Havana, Cuba. Add: P. O. Box 98. Daily 0930-1300; 1600-1900. Saturday, 2330-0030, special program for all s. w. clubs (programa dedicado a los clubs de ondas cortas).
5.900 megs.	50.82 m.	<b>HJ1ABC</b> , Quibdo, Colombia.
<b>HJ4ABE</b> , Medellin, Colombia. 1 kW. (relays HJ4ABK) "La Voz de Antioquia." Daily, 1900-2300 Owner: Jose M. Acevedo F.		6.012 megs. 49.87 m.
5.940 megs.	50.47 m.	<b>HJ3ASH</b> 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.
<b>TG2X</b> , Guatemala City, Guat. 200 w. "Policia Nacional."		6.020 megs. 49.80 m.
5.970 megs.	50.22 m.	<b>DJC</b> , 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.
<b>HVJ</b> , Vatican City. 10 kW. Interval sig: clock ticking for 10 minutes preceding xmission; bells of St. Peters at 3 o'clock. Announcement "Laudatur Jesus Christus". Talks as follows: Mon., Italian; Tues., English; Wed., Spanish; Thurs., French; Fri., German; Sat., Dutch; Sun., Latin. Address: Stazione Radio-Vaticana, Pontificia Accademia Della Scienze, Roma-Castina Pio IV, Citta del Vaticano. Schedule: Sundays and holidays, 0500-0530. Daily, 1400-1415.		<b>XEUW</b> , Veracruz, Mexico. 50 w. "El eco de Sotavento des de Veracruz." Radiodifusora Comercial XEU, Independencia 98.
5.975 megs.	50.18 m.	6.030 megs. 49.72 m.
<b>HJ2ABC</b> , 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.		<b>HP5B</b> , Panama City, Panama. 100 watts. "Estacion Miramar". Address: Estacion Radiodifusora Miramar de la Radio Panama S. A., Apartado 910. Daily, 1900-2200.
5.980 megs.	50.14 m.	<b>VE9CA</b> , 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.
<b>HIX</b> , Santo Domingo, D. R. Mr. J. R. Saladin Director HIX. Tues., Fri., 2000-2200.		6.040 megs. 49.64 m.
<b>HJ2ABD</b> , Bucaramanga, Colombia. 100 watts. Sr. Hector McCormick.		<b>PRA8</b> , Pernambuco, Brazil. 3 kW. "A Vox do Norte." Radio Club Pernambuco, Ave. Cruz Cabaga 394.
<b>XEBI</b> , Mexico City, D. F. Apartado 2874.		<b>W1XAL</b> , Boston, Mass. Address: Educational Director, University Club, Boston. Tues., Thurs., 1930-2130; Sun., 1700-1900.
5.995 megs.	50.01 m.	<b>W4XB</b> , 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.
<b>RPT</b> , Tashkent, USSR. 1 kW.		<b>YDA</b> , Tandjongprik, N. E. I. 10 kW. Key Station, NIROM Network. N. V. Nederlandsche Indische Radio Omroep Moatschappij, Koningsplein West 5, Batavia-Centrum, Java, N. E. I. 0530-1100; 1745-1845; 2230-0130.
<b>WVD</b> , Seattle, Wash. 500 watts. Phones Alaska. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.		6.042 megs. 49.62 m.
5.996 megs.	50.00 m.	<b>HJ1ABG</b> , Barranquilla, Colombia. 150 watts. "Emisora Atlantico." Member, Cadena Indo-Americana. Interval sig: 4-note chime. Address: Sr. Andres Jimeno, Apartado 445.
....., "Radio-Tananarive," Tananarive, Madagascar. Theme song: Ramona. 500 watts. Administration des Pestes des Telegraphes et des Telephones. Sun., 0230-0400; daily exc. Sun. and Mon., 0300-0345.		
<b>RV59</b> , Moscow, USSR. 20 kW. Kremlin chimes at 4 p.m. EST. sign off: l'Internationale. Add: Inna Marr, Central Radio Committee Petrovka 12, Moscow.		
6.000 megs.	49.97 m.	
<b>TGWA</b> , Guatemala City, Guat. 300 w. "Radio Nac-		

## SHORT WAVE STATIONS BY FREQUENCIES

- 6.050 megas. 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.
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- 6.060 megas. 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, Statsradlofonien, Helbergsgade 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-WLV. Crosley Radio Corp., 1329 Arlington St. Daily exc. Sun., 0630-2000; Sun., 0800-2000; daily exc. Sat., 2300-0200; Sat., 2300-0300.
- ZHI**, Singapore, Straits Settlements. 180 watts. Technical Director, Radio Service Co. of Malaya, Broadcast House 2 and 4, Orchard Road. Sat., 2300-0130; Mon., Wed., Thurs., 0600-0830.
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- 6.065 megas. 49.43 m.  
**HH2F**, Port au Prince, Haiti.
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- 6.070 megas. 49.39 m.  
**HH2S**, Port au Prince, Haiti.  
**HP5H**, Colon, Panama.  
**IRA**, Rome, Italy. Address EIAR, 5.550 megas.  
**VE9CS**, Vancouver, B. C. 2-10 watts. Radio Service Engineers Ltd., 734 Davie St. Daily 2000-2200.
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- 6.072 megas. 49.37 m.  
**CQN**, Macau. 500 watts. Ann: Portuguese and English. Mon., Fri., 0300-0500.  
**OER2**, Vienna, Austria. 1.5 kW. Oesterr. Radioverkehrs A. G., Wien I, Johannesgasse 4b. Sat., 0900-1800; Sun., silent; other days, 0900-1700.
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- 6.080 megas. 49.31 m.  
**CP5**, La Paz, Bolivia. "Radio Illimani." Compania Radio Boliviana, Casilla 637. Daily, 2000-2100.  
**DJM**, Zeesen, Germany. Address, DJC, 6.020 megas.  
**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 CFCY. 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.
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- 6.085 megas. 49.27 m.  
**12RO**, Rome, Italy. Address EIAR, 5.550 megas.
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- 6.090 megas. 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.
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- 6.100 megas. 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 Brdcastg. Co., Box 4559, Johannesburg.
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- 6.110 megas. 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 megas. Daily 2200-2300.  
**HJ4ABB**, Manizales, Colombia. 300 watts. "Radio Manizales." Sr. Ernesto Villegas.  
**VE9CG**, Calgary, Alta. Calgary Herald, Ltd.
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- 6.112 megas. 49.05 m.  
**VUC**, Calcutta, India. Indian State Broadcasting Service, 1 Garstin Place.
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- 6.115 megas. 49.03 m.  
**HJ1ABE**, Cartagena, Colombia. 180 watts. "La Voz de los Laboratorios Fuentes." Address: Laboratorios Fuentes L., Apartado 31.
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- 6.120 megas. 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, Tegallegaah 0.23, Bandoeng. 0530-1100; 1745-1845; 2230-0130.
- 
- 6.125 megas. 48.95 m.  
**ZGE**, Kuala Lumpur, Federated Malay States. 180 watts. Hon. Secy., the Malayan Amateur Radio Society, Mercantile Bank Bldg., K. L. Sun., Tues., Fri., 0640-0840.
- 
- 6.130 megas. 48.91 m.  
**COCD**, Vedado, Havana, Cuba. 350 watts. "La Voz del Aire." Int. sig.: 4 chimes. Relays CMCD. Address: Hotel Palace, Calle 25 y G. Vedado, Havana. Sun., 1700-2300. Week-days, 1100-2400.  
**LCL**, Jeloy, 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 megas. 48.89 m.  
**CT1GO**, Parede, Portugal. Sun., 1130-1300; Sun., Tues., Wed., Thurs., Fri., 1920-2030.
- 
- 6.135 megas. 48.87 m.  
**RKK**, Moscow, USSR. 20 kW.
- 
- 6.140 megas. 48.83 m.  
**W8XK**, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg., Pittsburgh. Daily, 2100-0100.
- 
- 6.145 megas. 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, 2000-2400.
- 6.170 megs. 48.60 m.  
**HJ2ABA**, Tunja, Colombia. 50 watts. "Ecos de Boyaca." Member: Cadena Indo-Americana Sr. Pompelio Sanchez.
- 6.185 megs. 48.48 m.  
**HI1A**, 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.  
**WO9**, 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.  
**TIPG** (TI2PG), San Jose, Costa Rica. 1 kW. "La Voz de la Victor." Perry Girtan, 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.  
**VE9AS**, Fredericton, N. B. Address, C o Electrical Engineering Dept., University of New Brunswick.
- 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.  
**HIL**, Santo Domingo, D. R. Mr. J. C. Pellicer, Box 623.  
**HI4D**, 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.  
**TIRCC**, 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**, Cerrito (Montevideo) Uruguay. 1.5 kW.
- 6.615 megs. 45.32 m.  
**KIKL**, Los Angeles, Calif.  
**WMEP**, Sufield, 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.

## 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.

6.662 mags.	45.00 m.	
WXH, Ketchikan, Alaska. Phones Seattle.		
6.666 mags.	44.98 m.	
ZP10, Asuncion, Paraguay.		
6.672 mags.	44.94 m.	
YVQ, Maracay (Santa Rita), Venezuela. Address: Estados Unidos de Venez., Servicio Radio-telegrafico.		
6.675 mags.	44.91 m.	
DGK, Nauen, Germany. Address: Rgichspostzentralamt, Telegraphentechnisches Reichsam, Schoneberger Srasse 11-15, Berlin-Tempelhof.		
6.690 mags.	44.82 m.	
CGA6, 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. Radie 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, Rosslund, B. C. Consolidated Mining & Smelting Co.		
6.725 mags.	44.57 m.	
WQO, Rocky Point, N. Y. Address WDB, 6.713 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. 150 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.	
CRGAA, Lobito, Portuguese West Africa. "Radio Eddystone." The Manica Trading Co., Ltd., Caixa Postal 118, Lobito.		
7.220 mags.	41.53 m.	
HAT2, Szekesferhervar, Hungary. 6 kW. "Justice for Hungary!" Announcements Hungarian, French, English by lady. Address: Magyar Kiralyi Postakiserleti 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. JVR, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 megs.	7.820 megs.	38.34 m.	OCO, Lima (Valverde), Peru.
ZLT2, Wellington, N. Z. 1 kW. Works VLJ. Address: Supt. of Post and Telegraphs, G. P. O.	7.830 megs.	38.29 m.	HC2JSB, Guayaquil, Ecuador. Interval sig.: one gong. LQP, Buenos Aires, Arg.
7.400 megs. 40.51 m. WEM, Rocky Point, N. Y. Works London, Honolulu. Address WDB, 6.718 megs.	7.880 megs.	38.05 m.	JYR, Kemikawa-Cho, Chiba-Ken, Japan. 5 kW. Experimental.
7.465 megs. 40.16 m. HJP, Bogota, Colombia. Works Hialeah nights.	7.920 megs.	37.86 m.	GCP, Rugby, England. Address GDW, 4.820 megs.
7.470 megs. 40.14 m. JVQ, Nazaki, Japan. 10 kW. Works PLE, PLV. Address JZG, 6.330 megs.	7.960 megs.	37.67 m.	VLZ (VK2ME), Pennant Hills (Sydney), N. S. W., Australia. 3.5 kW. Address: Amalgamated Wireless (A/sia) Ltd., 47 York St., Sydney. XGL, Shanghai, China. Address: XGO, 7.575 megs.
7.510 megs. 39.92 m. JVP, Nazaki, Japan. 20 kW. Works Europe. Address JZG, 6.330 megs.	7.968 megs.	37.63 m.	HSP, Bangkok, Siam. 20 kW. Address Post and Telegraph Dept.
7.520 megs. 39.87 m. KKH, Kahuku, Oahu, Hawaii. Works Dixon. RKI, Moscow, USSR. 20 kW. ....., Kahuku, Oahu, Hawaii. Works GMBJ.	7.980 megs.	37.57 m.	VLZ (VK2ME), Pennant Hills (Sydney), Australia. Address VLZ, 7.960 megs.
7.550 megs. 39.71 m. CFQ, Edmonton, Alta. The E. Journal, Ltd. CGE, Calgary, Alta. The Calgary Herald, Southam Bldg. CKS, Portable. Address CGE above. T18WS, Puntarenas, Costa Rica. "Ecos del Pacifico." Aptdo. 75.	8.020 megs.	37.38 m.	HSJ, Bangkok, Siam. 20 kW. Address HSP, 7.968 megs.
7.565 megs. 39.63 m. KWY (W6XN), Dixon, Calif. Address: Transpacific Communication Co., Ltd., 140 New Montgomery St., San Francisco.	8.035 megs.	37.31 m.	CNR, Rabat, Morocco. 12 kW. Phones Paris. Direction de l'Office des Postes, des Telegraphes et des Telephones du Maroc, Rabat.
7.575 megs. 39.58 m. XGO, Shanghai, China. Chinese Govt. Radio Administration, Sassoon House, Jinkee Road.	8.050 megs.	37.24 m.	WXA, Juneau, Alaska. Works WVD at 2400.
7.610 megs. 39.40 m. KWX (W6XN), Dixon, Calif. Address KWY, 7.565 megs.	8.070 megs.	37.15 m.	IRF, Rome, Italy. Works N. Y. Societe Italo Radio, Servizi Radioelectrici, Via Calabria No. 46-48, Roma 125, Italy.
7.620 megs. 39.35 m. ETA, Addis Ababa, Ethiopia. 2 kW. Frank A. Hammar, Chief Wireless Engineer, Dept. of Communications.	8.095 megs.	37.04 m.	VLK, Pennant Hills (Sydney) Australia. Address VLZ, 7.960 megs.
7.626 megs. 39.32 m. RIM, Tashkent, USSR. Works RKI. 20 kW.	8.120 megs.	36.92 m.	KTP, Manila, P. I. Phones Dixon near 1000. Address KBK, 6.718 megs.
7.680 megs. 39.04 m. YBZ, Manado, Celebes, N. E. I. Works PNI, Macassar. Address: Mr. H. Van der Veen, Engineer-in-charge, Post-Telegraafen Telefoondienst, Bedrijf der Radiostations op Java, Bandoeng.	8.180 megs.	36.65 m.	PSK, Rio de Janeiro (Marapicu) Brazil. Phones N. Y. and Buenos Aires. Companhia Radio Internacional do Brasil, Caixa Postal 709, Rio de Janeiro.
7.685 megs. 39.01 m. HJA3, Barranquilla, Colombia. TIR, Cartago, Costa Rica. Address: Compania Radiografica Internacional de C. R., San Jose.	8.214 megs.	36.50 m.	HCJB, Quito, Ecuador. 150 watts. "La Voz de los Andes." Interval sig.: 4 strokes on gong. Address Clarence W. Jones, Casilla 691, Quito. Sun., 1615-2245; Mon., silent; other days, 1915-2315.
7.715 megs. 38.86 m. KEE, Bolinas, Calif. Address KEL, 6.860 megs.	8.220 megs.	36.47 m.	WNED, Tampa, Fla. Pan American Airways, Inc. ZSV, Walvis Bay, Union of South Africa. 1 kW.
7.740 megs. 38.74 m. CEC, La Granja (Santiago) Chile. Address CEC, 5.820 megs.	8.225 megs.	36.45 m.	RRD, Moscow USSR. 20 kW.
7.797 megs. 38.47 m. HBP, Prangins (Genova) 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.	8.396 megs.	35.71 m.	HSP, Bangkok, Siam. 20 kW. Address HSP, 7.968 megs.
	8.455 megs.	35.46 m.	CWF, Montevideo (Cerrito) Uruguay. 1.5 kW.

## SHORT WAVE STATIONS BY FREQUENCIES

8.464 megs. 35.42 m. DAF, Norden, Germany. Works ships. Address Hauptfunkstelle Norddeich, Norden-Land.	DDFT, S. S. Oceana. DHAO, S. S. Hansa. DHDL, S. S. Cap Arcena 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.
8.500 megs. 35.47 m. JZF, Nazaki, Japan. 10 kW. Works ships. Address JZG, 6.330 megs.	FNSM, S. S. Paris. FNTQ, S. S. Ile de France. GBZW, S. S. Berengaria. GDLJ, S. S. Homerlc. GFWV, 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.
8.560 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.	8.900 megs. 33.69 m. ZLS, Wellington, N. Z. Address Supt. of Post and Telegraphs, GPO.
8.565 megs. 35.00 m. HAT3, Szekesfehervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2, 7.220 megs.	8.930 megs. 33.57 m. WAD, Rocky Point, N. Y. R. C. A., Central Frequency Bureau, 66 Broadway, N. Y. City. WEC, Rocky Point, N. Y. Address WAD above.
8.575 megs. 34.96 m. TYD2, Pontoise, France. Phones Rabat. YCP, Balikpapan, N. E. I. 3 kW. Address YBZ, 7.680 megs.	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.
8.620 megs. 34.78 m. WVD, Seattle, Wash. Works Alaska at 2400. Alaskan Telephone Co., 517 Federal Office Bldg., Seattle.	8.950 megs. 33.50 m. WEL, Rocky Point, N. Y. Address WAD, 8.930 megs.
8.625 megs. 34.76 m. HC2CW, Guayaquil, Ecuador. "Ondas del Pacifico."	8.975 megs. 33.41 m. VWY, Kirkee, Poona, India. Phones London.
8.665 megs. 34.60 m. CO9JQ, Camaguey, Cuba. 150 watts. Rafael Grimany, Calle General Gomez No. 4.	9.010 megs. 33.28 m. KEJ, Bolinas, Calif. 20-40 kW. Address KEL. 6.860 megs.
8.680 megs. 34.54 m. GBC, Rugby, England. Works ships. Address GDW, 4.820 megs.	9.020 megs. 33.24 m. GCS, Rugby, England. 15 kW. Phones N. Y. night.
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.	9.040 megs. 33.17 m. TYA2, Pontoise, France. Phones Algeria.
8.708 megs. 34.43 m. VWZ, Kirkee, Poona, India. 10 kW. Phones London.	9.050 megs. 33.13 m. TFK, Reykjavik, Iceland. 8.5 kW.
8.710 megs. 34.42 m. CEC, La Granja, (Santiago) Chile. 800 watts. Address CEC, 5.820 megs.	9.120 megs. 32.88 m. CP6, La Paz, Bolivia. "Illimani Radio." Compania Radio Boliviana, Casilla 637.
8.750 megs. 34.26 m. ZBW, Hong Kong, 500 w. The Secy., Hong Kong Brdcastg. Committee, P. O. Box 200.	9.125 megs. 32.86 m. HAT4, Szekesfehervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address HAT2. 7.220 megs.
8.770 megs. 34.19 m. RSZ, Irkutsk, USSR. 15 kW. Tests with RNE.	9.168 megs. 32.70 m. YVR, Santa Rita, Maracay, Venezuela. Address YVQ, 6.672 megs.
8.775 megs. 34.16 m. PNI, Macassar, Celebes, N. E. I. 3 kW. Phones Bandoeng. Address YBZ, 7.680 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.
8.790 megs. 34.11 m. HJA3, Barranquilla, Colombia.	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.
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.	9.332 megs. 32.13 m. CGA4, Drummondville, P. Q. Phones London. Address VE9DN, 6.005 megs.
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.	

## SHORT WAVE STATIONS BY FREQUENCIES

9.415 megs. 31.84 m. PLV, Bandoeng, Java, N. E. I. 80 kW. Works Dixon and JVB, JVE, JVV. Address Mr. H. Van der Veen, Post-Telegraafen Telefoon dienst, Bedrijf der Radiostations op Java, Bandoeng.	LKJ1, Jeloy, Norway. 500 watts. Address LCL, 6.130 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, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.
9.450 megs. 31.73 m. TG1X, Guatemala City, Guat. 200 watts. Ministerio de Fomento.	9.560 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, Sprotts Road, Ballard Estate, Bombay. Sun., 0700-0900 approximately.
9.470 megs. 31.66 m. WET, Rocky Point, N. Y. Works Buenos Aires, Caracas. Address WAD, 8.930 megs.	9.570 megs. 31.33 m. W1XK, Millis (Boston), Mass. 10 kW. Relays WBZ-WBZA, NBC programs. "These are the New England Westinghouse stations WBZ, WBZA, W1XK." Address: Westinghouse Radio Stations of New England, Hotel Bradford, Boston. Sunday, 0800-0100; other days, 0700-0100.
9.480 megs. 31.63 m. KES, Bolinas, Calif. RCA Communications, Inc.	9.575 megs. 31.31 m. W8XK, Pittsburgh (Saxonburg), Pa. This frequency loaned to W1XK.
9.490 megs. 31.59 m. KZGH, Ileilo, P. I. Inter-Island phone. Philippine Long Distance Telephone Co. OXY, Copenhagen, Denmark. Not used at present. SRI, Poznan, Poland. 1 kW. Tues., 1300-1500; Wed., 0800-0900. Radio Pozanski, Plac Wolnosce 11, Rozglosnia, Poznan. (This station is probably off the air).	9.575 megs. 31.31 m. VUC, Calcutta, India. Refer to VUC, 6.112 megs.
9.500 megs. 31.56 m. XGOX, Nanking, China. See 6.090 megs.	9.580 megs. 31.30 m. GSC, Daventry, England. 20 kW. "C for Corporation." For other details see GSB, 9.510 megs. Daily, 1800-2000; 2200-2300.
9.503 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.	VE9DR, Montreal, P. Q. Address VE9DN, 9.555 megs. VK3LR, Melbourne, Australia. Research Section, P. M. G. Dept., 61 Little Collins St., C1, Melbourne. Daily, 0400-0800.
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.	XGBD, Shanghai, China. 18.5 kW. (Existence doubtful.)
9.510 megs. 31.53 m. GSB, Daventry, England. 20 kW. "B for Broadcasting." Interval sig.: Bow Bells and Big Ben. Sign off: God Save the King. Address GSA, 6.050 megs. Daily, 0115-0315; 1215-1500; 1515-1645.	9.585 megs. 31.28 m. VK2ME, Sydney (Pennant Hills), Australia. 12 kW. "The Voice of Australia." Laughing notes of the kookaburra, the Laughing Jackass, various times during program. Sign off: God Save the King. Address: Amalgamated Wireless (A/sia) Ltd., 47 York St., Sydney. Sundays, 0100-0300; 0500-1100.
9.520 megs. 31.49 m. XEDQ, Guadalajara, Jal. Relays XED. Address Cia. Radiofonografica, Apartado 197. Daily, 0800-0900; 1200-2400.	....., Villejust, France. 120 kW. (Under construction.)
9.530 megs. 31.46 m. W2XAF, Schenectady, N. Y. 40 kW. Relays NBC-WGY. The General Electric Co., Schenectady. "The Voice of Electricity." Programs commence with electrical discharge of 10,000,000 Volts (man-made lightning). Sun., 1615-2400; Thurs., 1700-2300; other days, 1730-2300.	9.590 megs. 31.26 m. HP5J, Panama City, Panama. 1 kW. "La Voz de Panama." Manuel Diaz Doce, Apartado 867. Daily, 1145-1300; 1930-2200.
9.540 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.	W3XAU, Philadelphia (Newton Square), Pa. Relays CBS-WCAU. 750 watts. Address W3XAU, 6.060 megs. Daily, 1200-2000.
	9.595 megs. 31.25 m. HBL, Prangins (Geneva), Switzerland. 18 kW. "Radio Nations." Works USA and broadcasts. Programs consist of talks in English, French, Spanish. Address HBP, 7.797 megs. Sat., 1730-1815.
	9.600 megs. 31.23 m. CT1AA, Lisbon, Portugal. 2kW. "Radio Colonial." Interval sig.: 3 cuckoos. Address: Senhor Abilio Nunes dos Santos, Jr., Av. Antonio d'Aguilar 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

9.635 megs.	31.12 m.	Radio Telegraph Co., of Egypt, S. A.. Box 795, Cairo.	
<b>12RO</b> , Rome, Italy. Address Ente Italiano Audizioni Radiofoniche, Via Montello 5, Rome. American Hour broadcast Mon., Wed., Fri., 1800-1930.		<b>ZFB</b> , Hamilton (St. George) Bermuda. 1.5 kW. Phones N. Y. days.	
9.675 megs.	30.99 m.	10.070 megs.	29.77 m.
<b>DJI</b> , Zeesen, Germany.		<b>EHY</b> , Madrid (Pozuelo del Rey), Spain. Phones YVR afternoons. Compania Telefonica Nacional de Espana, S. A., Margall 2, Madrid.	
9.710 megs.	30.88 m.	10.080 megs.	29.74 m.
<b>GCA</b> , Rugby, England. 15 kW. Phones N. Y. and Buenos Aires. Address GCB, 9.280 megs.		<b>RIR</b> , Tiflis, USSR. Works RIO, RNE mornings.	
9.750 megs.	30.75 m.	10.135 megs.	29.58 m.
<b>RKF</b> , Moscow, USSR. 20 kW.		<b>OPM</b> , Leopoldville, Belgian Congo. 12 kW. Works <b>ORK</b> . Address Leopoldville Radio Station.	
<b>VLJ</b> , Sydney (Pennant Hills), Australia. 3.5 kW. Phones Bandoeng. Address VK2ME, 9.585 megs.		10.160 megs.	29.51 m.
<b>WOF</b> , Lawrenceville, N. J. Address WNA, 9.170 megs.		<b>RIO</b> , Baku, USSR. Works RIR, RNE mornings.	
9.790 megs.	30.63 m.	10.200 megs.	29.34 m.
<b>GCW</b> , Rugby, England. 15 kW. Phones N. Y. evenings. Address GCB, 9.280 megs.		<b>PSH</b> , Rio de Janeiro (Marapicu), Brazil. 12 kW. Works Buenos Aires. Cia. Radiotelegraphica Brasileira, Caixa Postal 500.	
9.830 megs.	30.50 m.	10.250 megs.	29.25 m.
<b>IRM</b> , Rome, Italy. "Italo Radio"		<b>LSL</b> , Buenos Aires (Hurlingham), Argentina. 5 kW.	
9.840 megs.	30.47 m.	10.260 megs.	29.22 m.
<b>JYS</b> , Kemikawa-Cho, Chiba-Ken, Japan. Experimental. 10 kW.		<b>PMN</b> , Bandoeng, N. E. I. 3 kW. Works Sydney. Address PLV, 9.415.	
9.862 megs.	30.40 m.	10.285 megs.	29.15 m.
<b>EAQ</b> , 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.		<b>DIQ</b> , Koenigswusterhausen, Germany. Address DGK, 6.675 megs.	
9.870 megs.	30.38 m.	10.290 megs.	29.14 m.
<b>WON</b> , Lawrenceville, N. J. 20 kW. Works London. Add: WNA, 9.170.		<b>HPC</b> , Panama City, Panama.	
9.890 megs.	30.32 m.	10.300 megs.	29.11 m.
<b>LSN2</b> , Buenos Aires (Hurlingham), Argentina. Address LQA, 9.600 megs.		<b>LSL2</b> , Buenos Aires, Arg. 5 kW. Phones Europe.	
9.895 megs.	30.30 m.	10.310 megs.	29.08 m.
<b>LSN</b> , Buenos Aires (Hurlingham), Argentina. Works N. Y. Address LQA, 9.600 megs.		<b>PPM</b> , Rio de Janeiro, Brazil. Works <b>LSX</b> , <b>WCG</b> , <b>WET</b> irreg.	
9.920 megs.	30.22 m.	10.330 megs.	29.02 m.
<b>JDY</b> , Darien. Works JYU, Nazaki.		<b>ORK</b> , Brussels (Ruyssede), Belgium. 11 kW. Works <b>OPM</b> irregularly; broadcasts daily. Ann.: Radio I.N.R. Sign off: La Brabaconne. Address: Regie des Telegraphes et des Telephones, Direction des Radiocommunications, Bruxelles.	
9.930 megs.	30.19 m.	10.335 megs.	29.01 m.
<b>HJY</b> , Bogota, Colombia. Phones CEC, OCI evenings.		<b>ZFD</b> , St. George, Bermuda. 1.5 kW. Address reports on special transmissions to Town Clerk, St. George.	
9.950 megs.	30.13 m.	10.350 megs.	28.97 m.
<b>GCU</b> , Rugby, England. 15 kW. Works N. Y. nights. Address GCB, 9.280 megs.		<b>LSX</b> , Buenos Aires (Monte Grande), Argentina. 20 kW. Transradio Internacional, Compania Radiotelegrafica Argentina S. A. San Martin 329.	
9.990 megs.	30.01 m.	10.370 megs.	28.91 m.
<b>KAZ</b> , Manila, P. I. 40 kW. Works Dixon. Radio Corp. of the Philippines, Plaza Moraga.		<b>EHZ</b> , El Tablero, Canaries. Works <b>EHX</b> .	
<b>LSL</b> , Buenos Aires, Argentina. Address LQA, 9.600 megs.		<b>WCG</b> (W2XBJ), Tuckerton, N. J.	
10.000 megs.	29.98 m.	10.375 megs.	28.89 m.
<b>WWV</b> , Beltsville, Md. 20 kW. Standard Frequency Station. Dept. of Commerce, National Bureau of Standards, Washington, D. C. Tues., Fri., 1315-1415.		<b>JVO</b> , Nazaki, Japan. 10 kW. Works JZA, JZB, JZC, Harbin. Address JZG, 6.330 megs.	
10.040 megs.	29.86 m.	10.400 megs.	28.83 m.
<b>HII</b> , Santo Domingo, D. R.		<b>KEZ</b> , Bolinas, Calif. 40 kW. RCA Communications, Inc., Pacific Division, 28 Geary St., San Francisco, Calif.	
10.042 megs.	29.85 m.	10.410 megs.	28.80 m.
<b>DJJ</b> , Zeesen, Germany.		....., Bolinas, Calif. 40 kW. Address KEZ, 10.400 megs.	
10.055 megs.	29.82 m.		
<b>SUV</b> , Cairo (Abu Zabal), Egypt, 10 kW. Marconi			

## SHORT WAVE STATIONS BY FREQUENCIES

PDK, Kootwijk, Netherlands. 60 kW. Address Radlo-laboratory, Neth. State Telegraphs, Park-straat 29, S'Gravenhage.	Int. sig.: 4 chimes. National Bank of Mexico, Box 2825.
10.420 mags. 28.77 m. XGW, Shanghai, China. 20 kW. Address XGO 7.575 mags.	11.140 mags. 26.91 m. XGB, Shanghai, China. 15 kW. (Existence doubtful).
10.430 mags. 28.75 m. YBG, Medan, Sumatra, N. E. I. 3 kW. Works Bandoeng. Director of Govt. Radio Service, Telegraaf en Telefoon dienst, Serdangweg 2, Medan. Daily, 0430-0530; 2030-2300.	11.370 mags. 26.38 m. CWG, Cerrito (Montevideo), Uruguay. 1.5 kW.
10.465 mags. 28.64 m. WKC, Rocky Point, N. Y. 100 kW. Address WAD, 8.930 mags.	11.495 mags. 26.08 m. VIZ3, Rockbank (Melbourne), Australia. Tests with Canada. Address VK3ME, 9.593 mags.
10.520 mags. 28.50 m. VLK, Pennant Hills (Sydney), Australia. 16 kW. Address VK2ME, 9.585 mags.	11.660 mags. 25.71 m. JVL, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address JZG, 6.330 mags.
10.530 mags. 28.47 m. GBX, Rugby, England. 8 kW. Address GCB, 9.280 mags.	11.670 mags. 25.69 m. PPQ, Rio de Janeiro (Sepetiba), Brazil. 5 kW. Address, see PSH, 10.220 mags.
JIB, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVV.	11.680 mags. 25.67 m. KIO, Kahuku, Oahu, Hawaii. Works Bolinas. ...., Kahuku, Oahu, T. H. Works GMBJ.
10.550 mags. 28.42 m. WOK, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 mags.	11.720 mags. 25.58 m. CJRX, Winnipeg, Man. (Middlechurch). James Richardson & Sons, Royal Alexandra Hotel. Daily, 2000-2400.
10.610 mags. 28.25 m. WEA, Rocky Point N. Y. 40 kW. Address WAD, 8.930 mags.	HJ4ABA, Medellin, Colombia. "Ecos de la Montana." ...., "Radio Coloniale," Pontoise, France. 15 kW. Address: Ministère des Postes, Télégraphes et Téléphones, Direction de la Radiodiffusion, 98 bis, Blvd. Haussmann, Paris. Daily, 1900-2200; 2300-0100.
10.620 mags. 28.23 m. EHX, Madrid (Pozuelo del Rey), Spain.	11.725 mags. 25.57 m. 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 mags. 28.13 m. JVN, Nazaki, Ibaraki-Ken, Japan. 20 kW. Works Europe and broadcasts to America. Sign off: Japanese National Anthem. Address, see JZG, 6.330 mags. Mon., Thurs., 1600-1700; daily, 0000-0100.	11.750 mags. 25.52 m. 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 mags. Daily, 0115-0315; 1215-1600; 1800-2000; 2200-2300.
10.670 mags. 28.10 m. CEC, La Granja, (Santiago) Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago. Broadcasting irregularly.	11.770 mags. 25.47 m. DJD, Zeesen, Germany. 8 kW. Programs preceded by a music box tune, "Ever be True and Honest." Address DJC, 6.020 mags.
PLQ, Bandoeng, N. E. I. 60 kW.	11.790 mags. 25.43 m. DJO, Zeesen, Germany. Address DJC, 6.020 mags. HH2T, Port-au-Prince, Haiti. W1XAL, Boston, Mass. 5 kW.
10.675 mags. 28.09 m. WNB, Lawrenceville, N. J. 500 watts. Phones Bermuda. Address, WNA, 9.170 mags.	11.800 mags. 25.37 m. CO9WR, Sancti-Spiritus, Cuba. 150 watts. V. E. Weiss y O. Ramirez, Apartado 85.
10.740 mags. 27.92 m. JVM, Nazaki, Ibaraki-Ken, Japan. 20 kW. Other details identical JVN, 10.660.	11.810 mags. 25.39 m. VE9GW, Toronto (Bowmanville), Ont.
10.770 mags. 27.84 m. GBP, Rugby, England. 15 kW. Address GCB, 9.280 mags.	11.811 mags. 25.38 m. IRE, Rome, Italy. Address I2RO, 9.630 mags. Daily, 0815-0900; 0915-1015; 1280-1300; 1345-1430.
10.840 mags. 27.66 m. KWV (W6XN), Dixon, Calif. 20 kW. Address: Trans-pacific Communication Co., Ltd., 140 New Montgomery St., San Francisco, Calif.	11.830 mags. 25.34 m. W2XE, New York, N. Y. (Wayne, N. J.) Relays CBS, WABC. 10 kW. Address W2XE, 6.120 mags. Daily, 1500-1700. W9XAA, Chicago, Ill.
10.850 mags. 27.63 m. DFL, Nauen, Germany.	11.845 mags. 25.31 m. ....., Villejust, France. 120 kW. Under construction.
10.960 mags. 27.36 m. JZB, Shinkio (Kanjoshi) Manchukuo. 20 kW. Works JVI, JVO, JVV. Add: Manchukuo Telephone & Telegraph Co., Ltd., Shinkio.	
11.000 mags. 27.26 m. PLP, Bandoeng, Java, N. E. I. 3 kW. XBJQ, Mexico City, Mexico. Relays XEW irreg.	

## SHORT WAVE STATIONS BY FREQUENCIES

11.860 megs. 25.28 m. 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 megs. Daily, 1100-1200.	12.325 megs. 24.33 m. DAF, Norden, Germany. 5 kW. Phones ships, mornings. For address see DAF, 8.464 megs.
11.870 megs. 25.25 m. W8XK, Pittsburgh (Saxonyburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg., Pittsburgh, Pa. Daily, 1700-2100.	12.500 megs. 23.99 m. RKF, Moscow, USSR. 20 kW. ZSV, Walvis Bay, Union of South Africa. 1 kW.
11.880 megs. 25.24 m. ....., "Radio Coloniale," Pontoise, France. 15 kW. Address, see 11.720 megs. Daily, 1115-1415; 1500-1800.	12.745 megs. 23.60 m. DAF, Norden, Germany. 5 kW. Works ships. Address DAF, 8.464 megs.
11.940 megs. 25.11 m. 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 megs. 23.46 m. GBC, Rugby, England. 5 kW. Works ships. Address GCB, 9.280 megs.
11.950 megs. 25.08 m. KKQ, Bolinas, Calif. Address KEZ, 10.400 megs.	12.795 megs. 23.45 m. IAC, Caltano, Italy. 14 kW. Works ships. Address IAC, 4.355 megs.
11.990 megs. 25.00 m. FZS2, Saigon, French Indo-China. 15 kW. Phones Paris. Cie Generale de Telegraphie Sans Fil, Boite Postale 238.	12.830 megs. 23.36 m. CNR, Rabat, Morocco. Works Paris. Address, CNR, 8.035 megs. HJA3, Barranquilla, Colombia.
12.000 megs. 24.99 m. RNE, Moscow, U.S.S.R. 20 kW. Kremlin Chimes at 1600 EST. Programs in English, Russian, German, French, Czech, Hungarian, Dutch, Spanish, Swedish. Address: Mme. Inna Marr, Central Radio Committee, Petrovka 12, Moscow.	12.840 megs. 23.35 m. WOO, Ocean Gate, N. J. 20 kW. Works ships. Address WNA, 9.170 megs. WOY, Lawrenceville, N. J. 20 kW. Address WNA, 9.170 megs.
12.020 megs. 24.94 m. JVK, Nazaki, Japan. Works Shanghai. Address JZG, 6.330 megs.	12.862 megs. 23.31 m. WOEH, Broadcast pickup. NBC, 30 Rockefeller Plaza, NYC.
12.030 megs. 24.92 m. HBO, Prangins, (Geneva), Switzerland. 20 kW. "Radio Nations." Address: see HBP, 7.797 megs.	12.930 megs. 23.18 m. WAW, Hialeah, Fla.
12.035 megs. 24.91 m. DJK, Nauen, Germany. 7.2 kW. Address DGK, 6.675 megs.	12.955 megs. 23.14 m. GMBJ, S. S. Empress of Britain. Works WOO, IAC, DAF, GBC, CZA, etc.
12.050 megs. 24.88 m. PDV, Kootwijk, Netherlands. 60 kW. Address: PDK, 10.410 megs.	13.020 megs. 23.03 m. JZE, Nazaki, Japan. 10 kW. Works ships. Address, JZG, 6.330 megs.
12.150 megs. 24.68 m. GBS, Rugby, England. 15 kW. Phones N. Y. afternoons. Address: GCB, 9.280 megs.	13.040 megs. 22.99 m. SHIPS. For address of these ships refer to 4413, 4415 and 4430 megs. All these ships work with WOO, and DAF. DDBR, S. S. Berlin. DDCP, S. S. Cap Polenio. 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 megs. 24.55 m. TYA, Paris, France. Phones Algeria. Address: FTA, 11.940 megs.	13.050 megs. 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 megs. 24.53 m. TFK, Reykjavik, Iceland. 8.5 kW.	13.075 megs. 22.93 m. VPD, Suva, Fiji. "Radio Suva." Amalgamated Wireless (A/sia) Ltd., Suva. Daily exc. Sunday. 0030-0130.
12.240 megs. 24.49 m. GBU, Rugby, England. Phones N. Y. Address: GCB, 9.280 megs.	13.105 megs. 22.88 m. IRJ, Rome, Italy.
12.250 megs. 24.48 m. TYB, Pontoise, France. Works JVH and Ships.	13.140 megs. 22.82 m. CWH, Montevideo (Cerrito), Uruguay. 1.5 kW.
12.260 megs. 24.46 m. FTN, Ste. Assise, France. Address: FTA, 11.940 megs.	
12.270 megs. 24.52 m. JVJ, Nazaki, Japan. Works Hongkong. Address JZG, 6.330 megs.	
RKK, Moscow, USSR. 20 kW.	

## SHORT WAVE STATIONS BY FREQUENCIES

13.190 megs. 22.73 m. FNSK, S. S. Normandie. Works Paris afternoons. Address FNSK, 8.810 megs.	13.900 megs. 21.57 m. WQP (W2XBJ), Rocky Point, N. Y. Address: WPE, 13.840 megs.
13.200 megs. 22.71 m. CFU, Rossland, B. C. Consolidated Mining & Smelt- ing Co.	13.980 megs. 21.45 m. LCO, Jeloy, Norway. 1kW. Address LCL, 6.130 megs.
13.210 megs. 22.70 m. FNSK, S. S. Normandie. Works WOO, afternoons. Address FNSK, 8.810 megs.	13.984 megs. 21.44 m. GBA, Rugby, England. Address GCB, 9.280 megs.
13.320 megs. 22.51 m. GBZW, S. S. Berengaria. GDLJ, S. S. Homeric. GFWV, S. S. Majestic. GLRZ, S. S. Aquitania.	14.000 to 14.400 megs. 20.82 to 21.42 meters. AMATEURS. Phones work between 14.150 and 14.250 megs.
13.337 megs. 22.48 m. YVQ, Maracay (Santa Rita), Venezuela. Phones Hialeah days.	14.000 megs. 21.42 m. HJ5ABE, Cali, Colombia. Apartado 50. Daily 1900- 2200.
13.390 megs. 22.39 m. WMA, Lawrenceville, N. J. Works London. Address WNA, 9.170 megs.	14.236 megs. 21.06 m. HB9B, Berne, Switzerland. Swiss Shortwave Associa- tion, 30 Neuengasse, Berne. First Monday every month 1510-1615; 1800-1900.
13.395 megs. 22.39 m. FNSM, S. S. Paris. FNTQ, S. S. Ile de France.	14.290 megs. 20.99 m. HB9AT, Berne, Switzerland. Address HB9B above. First Monday each month, 1800-1900.
13.410 megs. 22.36 m. WCT, San Juan, Puerto Rico. 400 w. Phones WNC. Radio Corp. of P. R.	14.400 megs. 20.82 m. HB9J, Berne, Switzerland. Address HB9B above. First Monday each month, 1510-1615.
13.415 megs. 22.35 m. GCJ, Rugby, England. Works JVH, Nazaki. Address GCB 9.280 megs., 0380-0808. TIEP, San Jose, Costa Rica. "La Voz del Tropico". Sr. Eduardo Pinto Hernandez, Apartado 257. Sunday at 1300.	14.410 megs. 20.81 m. DIP, Zeesen, Germany.
13.435 megs. 22.31 m. WEL, Rocky Point, N. Y. Phones London. Address WAD, 8.930 megs.	14.440 megs. 20.76 m. GBW, Rugby, England. 15 kW. Address GCB, 9.280 mgs.
13.500 megs. 22.21 m. GBB, Rugby, England. Phones Canada and Egypt days. Address: GCB, 9.280 megs.	14.470 megs. 20.72 m. WMF, Lawrenceville, N. J. A. T. & T., Long Lines Dept., 32 Sixth Ave., N. Y. City.
13.560 megs. 22.11 m. JVI, Nazaki, Japan. 10 kW. Works JZA, JZB, JZC, Harbin. Address: Kekusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	14.480 megs. 20.70 m. LSN, Buenos Aires (Hurlingham), Argentina, Phones N. Y. Address: Compania Internacional de Radio, Defensa 143.
13.000 megs. 22.05 m. JYK, Kemikawa-Cho, Chiba-Ken, Japan. Esperimen- tal.	YNA, Managua, Nicaragua. Phones Hialeah days.
13.630 megs. 22.00 m. SPW, Warsaw, Poland. 10 kW. Minister of Post and Telegraphs, Mazowiecka 5, Warsaw.	14.535 megs. 20.63 m. HBJ, Prangins (Geneva), Switzerland. 20 kW. "Radio Nations." Address: M. Gallarati, Information Section, League of Nations, Geneva.
13.690 megs. 21.90 m. KKZ, Bolinas, Calif. Works Honolulu, Hsinking, New York. Address: KEZ, 10.400 megs.	14.545 megs. 20.69 m. HPF, Panama City, Panama. Phones Hialeah days. TGF, Guatemala City, Guat. Phones Hialeah days. TIN, Cartago, Costa Rica. Phones Hialeah days. Compania Radiografica Internacional de C. R., San Jose.
13.745 megs. 21.81 m. CGA2, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	TIU, Cartago, Costa Rica, See TIN above.
13.780 megs. 21.75 m. KKW, Bolinas, Calif. Address: KEZ, 10.400 megs.	14.590 megs. 20.55 m. WMN, Lawrenceville, N. J. 20 kW. Address WMF, 14.470 megs.
13.810 megs. 21.71 m. HRM, Tela, Honduras. Tela Railroad Co. SUZ, Cairo (Abu Zabal), Egypt. 10 kW. Uses any freq. between 13.810 and 13.830 megs. Ad- dress SUV, 10.055 megs.	14.640 megs. 20.42 m. JVH, Nazaki, Japan. 20 kW. Address JVI, 13.560 mgs. Works GCJ, 0200-0600.
13.870 megs. 21.61 m. WIY, Rocky Point, N. Y. Address: WPE, 13.840 megs.	14.690 megs. 20.41 m. PSF, Rio de Janeiro, Brazil. Phones Madrid and Buenos Aires. Companhia Radio Inter- nacional do Brasil, Caixa Postal 709.
	14.740 megs. 20.34 m. IRG, Massawa, Eritrea.
	14.790 megs. 20.27 m. ROU, Omsk, USSR.

## SHORT WAVE STATIONS BY FREQUENCIES

14.800 megas. 20.26 m. WQV, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megas.	15.220 megas. 19.70 m. PCJ. Hilversum, Netherlands. Philips' Omroep Holland-Indie, Emmasingel 29, Eindhoven. Announcements in Dutch, English, French, German, Malay, Portuguese, Spanish. Sign off: Dutch National Anthem. Irregular in operation.
14.830 megas. 20.21 m. WKU, Rocky Point, N. Y. 40 kW. Address WPE 13.840 megas.	15.250 megas. 19.66 m. ..... "Radio Coloniale," Pontoise, Franco. 12 kW. Address. see 11.720 megas. Daily, 0700-1100. W1XAL, Boston, Mass. 5 kW.
14.845 megas. 20.20 m. OCJ2, Lima (Valverde) Peru.	15.260 megas. 19.65 m. GSI, Daventry, England. "I for Island." For other details see GSF, 15.140 megas.
14.910 megas. 20.11 m. JVG, Nazaki, Japan. 10 kW. Works JIA, JIB, JIC Taiwan. Address: JVI, 13.560 megas.	15.270 megas. 19.64 m. W2XE, New York, N. Y. (Wayne, N. J.). 10 kW. Relays WABC-CBS. For address see 6.120 megas. Daily 1100-1300.
14.930 megas. 20.08 m. HJB, Bogota, Colombia. Phones Hialeah, days.	15.280 megas. 19.62 m. DJQ, Zeesen, Germany.
14.935 megas. 20.07 m. PSE, Rio de Janeiro, Brazil. Phones Buenos Aires and Madrid. Address: PSF, 14.690 megas.	15.295 megas. 19.60 m. ....., Villejust, France. 120 kW. Under construction.
14.980 megas. 20.01 m. KAY, Manila, P. I. 40 kW. Radio Corp. of the Philippines, Plaza Moraga, Manila.	15.300 megas. 19.60 m. CP7, La Paz, Bolivia. Compania Radio Boliviana, Casilla 637. OXY, Copenhagen, Denmark.
15.000 megas. 19.99 m. WWV, Beltsville, Md. 1kW. National Bureau of Standards. Washington, D. C. Wed. 1200-1300.	15.330 megas. 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 megas. 19.93 m. RKI, Moscow, USSR. 20 kW. Works RIM Tashkent.	15.340 megas. 19.55 m. DJR, Zeesen, Germany.
15.055 megas. 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 megas. 19.53 m. CT1AA, Lisbon, Portugal. 2kW. Int. Sig.: 3 cuckoos. Address CT1AA, 9.600 megas.
15.070 megas. 19.89 m. PSD, Rio de Janeiro (Marapicu), Brazil. 12 kW. Works Madrid and Buenos Aires mornings. Address: PSF, 14.690 megas.	15.355 megas. 19.52 m. KWU (W6XN), Dixon, Calif. 20 kW. Address KWV, 10.840 megas.
15.090 megas. 19.87 m. RKI, Moscow, USSR. 20 kW. Works Rocky Point.	15.370 megas. 19.51 m. HAS3, Szekesferhervar, Hungary. 20 kW. "Justice for Hungary!" Announce in Hungarian, French, English by lady. Address, see HAT2, 7.220 megas.
15.104 megas. 19.85 m. RAU, Tashkent, USSR. Phones Moscow mornings.	15.415 megas. 19.45 m. KWO (W6XN), Dixon, Calif. 20 kW. Address KWV, 10.840 megas.
15.120 megas. 19.83 m. HVJ, Vatican City. 10 kW. Interval sig.: clock ticking for 10 minutes preceding transmission; bells of St. Peter's at 3 o'clock. Announcement: Laudatur Jesus Christus. Talks as follows: Mon., Italian; Tues., English; Wed., Spanish; Thurs., French; Fri., German; Sat., Dutch; Sun., Latin. Address: Stazione Radio-Vaticano, Pontificia Accademia Della Scienze, Roma-Castina Pio IV, Citta del Vaticano. Schedule: 1000-1045.	15.440 megas. 19.42 m. PRADO, Riobamba, Ecuador. "Estacion El Prado." Apartado 98. This freq. used in summer only, Sundays, 1700-1800.
15.140 megas. 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'ng House, London W.1. Daily, 0900-1200; daily exc. Sun., 0600-0845; Sun., 0630-0845.	15.445 megas. 19.41 m. WKW, Rocky Point, N. Y. Address WPE, 13.840.
15.200 megas. 19.73 m. DJB, Zeesen, Germany. 8 kW. Programs preceded by a music box tune, "Ever be True and Honest." Address DJC 6.020 megas.	15.454 megas. 19.40 m. ....., Pontoise, France. (Proposed).
15.210 megas. 19.71 m. W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Relays NBC-KDKA. Westinghouse Electric & Manufacturing Co., Grant Bldg. Daily 0900-1900.	15.475 megas. 19.37 m. KKL, Bolinas, Calif. Address KEZ, 10.400 megas.
	15.510 megas. 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.
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 (Kanjeshi) Manchukuo, 20 kW. Works JVI, JVO, JVU. Add.: Manchukuo Tele- phone & Telegraph Co., Shinkio.	17.310 megs. 17.32 m. CZA, Drummondville, P. Q. Works ships. Address CGA2, 13.745 megs.
15.750 megs. 19.04 m. JIA, Taihoku (Chureki) Taiwan. Works JVG, JVL, JVU.	W3XL, Bound Breek, N. J. 20 kW. National Broad- casting Co., 30 Rockefeller Plaza, N. Y. C.
15.760 megs. 19.02 m. JYT, Kemikawa-Cho, Chiba-Ken, Japan. 5 kW.	17.480 megs. 17.15 m. VWY, Kirkee, Poona, India. Phones London.
15.860 megs. 18.90 m. CEC, La Granja (Santiago), Chile. 800 watts. Phones Peru, afternoons. Address CEC, 10.670 megs.	17.520 megs. 17.11 m. DFB, Nauen, Germany. Works S. America mornings. Address DKG, 6.675 megs.
JVD, Nazaki, Japan. Works Shanghai. Address JVI, 13.560 megs.	17.710 megs. 16.93 m. CJA3, Drummendville, 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 Hengkong. 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.
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.	W8XK, Pittsburgh (Saxonburg), Pa. 40 kW. Not used at present.
16.200 megs. 18.51 m. FZR, Saigon, French Indo-china. Phones Paris. Address FZS2, 11.990 megs.	W9XAA, Chicago, Ill. Not used at pres.
16.240 megs. 18.49 m. KTO, Manila, P. I. Phones Dixon. Radio Corp. of the Philippines, Plaza Moraga, Manila.	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.
16.270 megs. 18.48 m. WLK, Lawrenceville, N. J. Works London. Address WMF, 14.470 megs.	17.830 megs. 16.82 m. PCV, Kootwijk Netherlands. Works Java, mornings. Radiolaboratory Neth. State Telegraphs, Parkstraat 29, S'Gravenhage.
16.380 megs. 18.30 m. XGN, Shanghai, China. Address XGO, 7.575 megs.	17.850 megs. 16.80 m. PLF, Bandoeng, Java, N. E. I.
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.	17.900 megs. 16.75 m. WLL, Rocky Point, N. Y. 20 kW. Address WPE, 13.840 megs.
16.600 megs. 18.06 m. DOAI, S. S. Europa. Phones WOO, DAF. Address DHEY above.	17.920 megs. 16.73 m. WQF, Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.
16.910 megs. 17.73 m. JZD, Nazaki, Japan. 20 kW. Works ships. Address JVI, 13.560 megs.	17.940 megs. 16.71 m. WQB (W2XBJ), Rocky Point, N. Y. 40 kW. Address WPE, 13.840 megs.
17.080 megs. 17.55 m. GBC, Rugby, England. 5 kW. Works ships. Ad- dress GBX, 16.150 megs.	18.020 megs. 16.64 m. KQJ, Bolinas, Calif. 40 kW. Address KEZ, 10.400 megs.

## SHORT WAVE STATIONS BY FREQUENCIES

18.115 megs.      16.55 m. LSY3, Buenos Aires (Monte Grande), Argentina. Transradio Internacional, San Martin 329, B. A.	18.890 megs.      15.87 m. ZSS, Capetown (Klippeveel), Union of South Africa. 5kW. Works London. Overseas Communication Co., Kodak House, Shortmarket St., Capetown.
18.135 megs.      16.53 m. PMC, Bandoeng, Java, N. E. I. 40 kW. Works Neth., 0330-0900. Address: Mr. H. Van der Veen, Engineer in Charge, Post-Telegraaf-en Tele- foondienst, Bedrijf der Radiostations op Java, Bandoeng.	18.900 megs.      15.86 m. WDS, Rocky Point, N. Y. Address WKM, 18.860 megs.
18.180 megs.      16.49 m. CGA, Drummondville, P. Q. Canadian Marconi Co., Box 1690, Montreal, P. Q.	18.910 megs.      15.86 m. JVA, Nazaki, Japan. 20 kW. Works Europe. Address JVB, 18.190.
18.190 megs.      16.48 m. JVB, Nazaki, Japan. 10 kW. Works PLE, PLV. Address: Kokusai-Denwa Kaisha, Ltd., Osaka Bldg., Kojimachiku, Tokyo.	18.920 megs.      15.84 m. WQE, Rocky Point, N. Y. Address WKM, 18.860 megs.
18.200 megs.      16.47 m. GAW, Rugby, England. 15 kW. Works N. Y. Address: GBX, 16.150 megs.	18.950 megs.      15.82 m. HBF, Prangins (Geneva), Switzerland. 20 kW. Address HBJ, 14.535 megs.
18.270 megs.      16.41 m. ETA, Addis Ababa, Ethiopia. 2 kW.	18.970 megs.      15.80 m. GAQ, Rugby, England. Works Capetown 0800. Address GBX, 16.150 megs.
18.296 megs.      16.39 m. YVR, Maracay (Santa Rita), Venezuela. Works Berlin. Estados Unidos de Venezuela, Servicio Radiotelegrafico.	19.120 megs.      15.68 m. LSM, Buenos Aires, Argentina. Works Europe.
18.304 megs.      16.38 m. GAS, Rugby, England. Works N. Y. mornings. Address: GBX, 16.150 megs.	19.200 megs.      15.62 m. ORG, Brussels (Ruyssede), Belgium. 8 kW. Works Leopoldville. Address ORK, 10.330 megs.
18.330 megs.      16.36 m. FTE, Ste. Assise, France. Societe Francaise Radio- Electrique, 79 Blvd. Haussmann, Paris VIII.	19.220 megs.      15.60 m. WKF, Lawrenceville, N. J. 20 kW. Address WLA, 18.350 megs.
18.342 megs.      16.35 m. FZS, Saigon, French Indo-China. Works Paris. Address: FZS2, 11.990 megs.	19.270 megs.      15.57 m. PPU, Rio de Janeiro, Brazil. Works Paris. 13.5 kW. Address: Cia Radiotelegraphica Brasileira, Caixa Postal 500, Rio de Janeiro.
18.350 megs.      16.34 m. WLA, Lawrenceville, N. J. A. T. & T. Long Lines Dept., 32 Sixth Ave., N. Y. City.	19.345 megs.      15.50 m. PMA, Bandoeng, Java, N. E. I. 40 kW. Address: PMC, 18.135 megs.
18.400 megs.      16.29 m. PCK, Kootwijk, Netherlands. Works Java. Address: PCV, 17.830 megs.	19.355 megs.      15.46 m. FTM, Ste. Assise, France. Address: FTE, 18.330 megs.
18.444 megs.      16.25 m. HJY, Bogota, Colombia. Works CEC, LSR, OCI days.	19.520 megs.      15.36 m. 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. HBH, Prangins, Switzerland. 20 kW. Address: HBJ, 14.535 megs.	19.600 megs.      15.30 m. LSF, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs.
18.600 megs.      16.12 m. PCM, Kootwijk, Netherlands. Address: PCV, 17.830 megs.	19.680 megs.      15.24 m. CEC, La Granja (Santiago), Chile. 4 kW. Compania Internacional de Radio S. A. (Chile), Casilla 16-D, Santiago.
18.620 megs.      16.10 m. GAU, Rugby, England. 15 kW. Address: GBX, 16.150 megs.	19.820 megs.      15.13 m. WKN, Lawrenceville, N. J. Address: WLA, 18.350.
18.670 megs.      16.06 m. OCI, Lima (Valverde), Peru. Works HJY, CEC, LSR, WNC days. Compania Peruana de Telefonos, Apartado 986, Lima.	19.900 megs.      15.06 m. LSG, Buenos Aires (Monte Grande), Argentina. 7 kW. Address: LSY3, 18.115 megs..
18.830 megs.      15.92 m. PLE, Bandoeng, Java, N. E. I. 40 kW. Works Dixon nights, Tokyo mornings. Address: PMC, 18.135 megs.	19.980 megs.      15.01 m. KAX, Manila, P. I. Radio Corp of the Philippines, Plaza Moraga, Manila.
18.860 megs.      15.89 m. WKM, Rocky Point, N. Y. 40 kW. Address: R. C. A., 66 Broad St., N. Y. City.	20.020 megs.      14.98 m. 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.  <b>WQY</b>, Rocky Point, N. Y. 40 kW. Address: WKM, 18.860 mags.</p>	<p>21.460 mags. 13.97 m.  <b>W1XAL</b>, Boston, Mass. 5 kW.</p>
<p>20.368 mags. 14.72 m.  <b>GAA</b>, Rugby, England. 15 kW. Address: GBX, 16.150 mags.</p>	<p>21.470 mags. 13.96 m.  <b>GSH</b>, 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>
<p>20.606 mags. 14.55 m.  <b>PMB</b>, Bandoeng, Java, N. E. I. Works PCK. Address: PMC, 18.135 mags.</p>	<p>21.490 mags. 13.95 m.          .....  <b>Villejust</b>, France. 120 kW. Under construction.</p>
<p>21.020 mags. 14.27 m.  <b>LSN</b>, Buenos Aires (Hurlingham), Argentina. Werks N. Y. Address: LSN, 14.480 mags.</p>	<p>21.530 mags. 13.93 m.  <b>GSJ</b>, Daventry, England. "J for Justice." See GSH, 21.470 mags.</p>
<p>21.060 mags. 14.24 m.  <b>KWN</b>, (W6XN), Dixon, Calif. 20 kW. Address: KWV, 10.840 mags.  <b>WKA</b>, Lawrenceville, N. J. 20 kW. Address: WLA, 18.350 mags.</p>	<p>21.540 mags. 13.92 m.  <b>W8XK</b>, Pittsburgh (Saxenburg), Pa. 40 kW. Relays NBC-KDKA. Grant Building. 0700-0900.</p>
<p>21.070 mags. 14.23 m.  <b>PSA</b>, Rio de Janeiro (Marapicu), Brazil. 10 kW. Werks N. Y. Address: PSF, 14.690 mags.</p>	<p>22.290 mags. 13.45 m.  <b>GBU</b>, Rugby, England, Werks N. Y. Address: GBX, 16.150 mags.</p>
<p>21.128 mags. 14.19 m.  <b>LSM</b>, Buenos Aires (Monte Grande), Argentina. Address: LSY3, 18.115 mags.</p>	<p>26.100 mags. 11.49 m.  <b>GSK</b>, Daventry, England. "K for King." See GSH, 21.470 mags.</p>
<p>21.410 mags. 14.00 m.  <b>WKK</b>, Lawrenceville, N. J. Address: WLA, 18.250 mags.</p>	<p>29.820 mags. 10.05 m.  <b>IAF</b>, Fiumicino, Italy, 5 kW.</p>
	<p>30.604 mags. 9.80 m.  <b>IAG</b>, Golfo Aranci, Sardinia. 5 kW.</p>

## SHORT WAVE STATIONS BY LOCATIONS

<p><b>ALASKA (K)</b></p> <p>Akutan  <b>KHW</b> 2.912  <b>KIOI</b> 2.632</p> <p>Angeon  <b>KAED</b> 2.616  <b>KAED</b> 3.093</p> <p>Cape Pole  <b>KIJB</b> 2.994</p> <p>Circle  <b>KIKK</b> 2.994  <b>KIKK</b> 3.190</p> <p>Cordeva  <b>KDV</b> 2.538  <b>KHP</b> 1.622  <b>KIJV</b> 1.622</p> <p>Eagle  <b>KIIN</b> 2.994  <b>KIIN</b> 3.190  <b>Excursion Inlet</b> 2.994  <b>KILY</b> 2.994</p> <p>Eyak River  <b>KIKN</b> 3.093</p> <p>Fairbanks  <b>KIFM</b> 4.124</p> <p>False Pass  <b>KDX</b> 2.986</p> <p>Fort Yukon  <b>KIIL</b> 2.994  <b>KIIL</b> 3.190</p> <p>Hidden Inlet  <b>KIDE</b> 3.265  <b>KLD</b> 2.566</p>	<p><b>Heonah</b></p> <p><b>KIUZ</b> 3.093          Hot Springs  <b>KIIM</b> 2.994  <b>KIIM</b> 3.190</p> <p>Hydaburg  <b>KAEB</b> 2.616  <b>KAEB</b> 3.265</p> <p>Igleo  <b>KIUQ</b> 2.616          Iron Creek  <b>KIOH</b> 2.632</p> <p>Jack Wade  <b>KAEF</b> 2.616  <b>KAEF</b> 2.994</p> <p>Juneau  <b>KMYA</b> 2.304  <b>KMYA</b> 4.610  <b>WXA</b> 8.950</p> <p>Kadiak Island  <b>KIJX</b> 2.632</p> <p>Kake  <b>KIBA</b> 3.093  <b>KLC</b> 2.512</p> <p>Ketchikan  <b>KBAI</b> 2.304  <b>KGM</b> 2.512  <b>KIAY</b> 3.093  <b>WXH</b> 2.604  <b>WXH</b> 6.662</p> <p>Luckyshot  <b>KIIP</b> 3.093          McGrath  <b>KIHO</b> 2.994  <b>KIHO</b> 3.190</p> <p>Nakeen  <b>KHV</b> 2.566  <b>KICE</b> 3.265</p>	<p><b>Nellie Juan</b></p> <p><b>KGI</b> 2.632  <b>KIOD</b> 2.632          Newport Walter  <b>KIJS</b> 1.622</p> <p>Pillar Bay  <b>KDY</b> 2.994  <b>KNBZ</b> 2.994</p> <p>Poorman  <b>KIEJ</b> 2.994          Port Alexander  <b>KDH</b> 2.538  <b>KGXW</b> 1.606</p> <p>Port Aithorp  <b>KIAW</b> 3.093  <b>KLB</b> 2.512</p> <p>Port Armstrong  <b>KGXU</b> 1.622          Port Conclusion  <b>KIJI</b> 1.622          Port Herbert  <b>KIJO</b> 1.622</p> <p>Port Hobron  <b>KHZ</b> 2.912  <b>KIMA</b> 2.632</p> <p>Port San Juan  <b>KIJR</b> 2.986</p> <p>P. Wakefield  <b>KGX</b> 2.632  <b>KIOC</b> 2.632</p> <p>Red Bluff  <b>KIOG</b> 1.622          Rose Inlet  <b>KIAP</b> 3.093  <b>KLE</b> 2.512</p> <p>Saldovia  <b>KIKY</b> 3.265          Shearwater Bay</p>	<p><b>KIJW</b> 2.632          Tanana  <b>KIJJ</b> 2.994  <b>KIJJ</b> 3.190</p> <p>Tin City  <b>KION</b> 2.616</p> <p>Todd  <b>KGQ</b> 2.986  <b>KIJU</b> 2.986</p> <p>Uganik  <b>KIJP</b> 2.986</p> <p>Union Bay  <b>KFF</b> 2.566  <b>KICG</b> 3.265</p> <p>View Cove  <b>KICI</b> 3.093          Washington Bay  <b>KIJK</b> 1.622</p> <p>Waterfall  <b>KIBZ</b> 3.265  <b>KLA</b> 2.566</p> <p>Wrangell  <b>KDK</b> 2.538</p> <p><b>ARGENTINA (LOA-LVZ)</b></p> <p>Buenos Aires  <b>LQA</b> 9.600  <b>LSF</b> 19.600  <b>LSG</b> 19.900  <b>LSL</b> 9.990  <b>LSL</b> 10.250  <b>LSM</b> 19.120  <b>LSM</b> 21.128  <b>LSN</b> 9.895  <b>LSN</b> 14.480  <b>LSN</b> 21.020</p>	<p><b>LSN2</b> 9.890  <b>LSR</b> 18.958  <b>LSX</b> 10.350  <b>LSY3</b> 18.115</p> <p><b>AUSTRALIA (VHA-VMZ)</b></p> <p>Adelaide  <b>VIA</b> 1.520</p> <p>Fiskville  <b>VIZ3</b> 11.495</p> <p>Melbourne  <b>VK3LR</b> 9.580  <b>VK3ME</b> 9.503</p> <p>Sydney  <b>VKO</b> 1.520  <b>VK2ME</b> 9.585  <b>VLJ</b> 9.750  <b>VLK</b> 8.095  <b>VLK</b> 10.520  <b>VLZ</b> 7.960  <b>VLZ</b> 7.980</p> <p><b>AUSTRIA (OAE-OEZ)</b></p> <p>Vienna  <b>OER2</b> 6.072</p> <p><b>AZORES (CT2-)</b></p> <p>Ponta Delgada  <b>CT2AJ</b> 4.000</p>	<p><b>BAHAMAS (ZF-)</b></p> <p>Cat Cay  <b>ZFO</b> 5.308</p> <p>Nassau  <b>ZFS</b> 4.512</p> <p><b>BELGIAN CONGO (OP-)</b></p> <p>Leopoldville  <b>OPL</b> 20.040  <b>OPM</b> 10.135</p> <p><b>BELGIUM (ONA-OTZ)</b></p> <p>Brussels  <b>ORG</b> 19.200  <b>ORK</b> 10.330</p> <p><b>BERMUDA (ZF-)</b></p> <p>Hamilton  <b>ZFA</b> 5.025  <b>ZFB</b> 10.055</p> <p>St. George  <b>ZFD</b> 10.335</p> <p><b>BOLIVIA (CPA-CPZ)</b></p> <p>La Paz  <b>CP5</b> 6.080</p>
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## SHORT WAVE STATIONS BY LOCATIONS

CP6 9.120	CZG 6.425	<b>QUEBEC</b>	<b>CANARIES</b>	<b>COSTA RICA</b> (TIA-TIZ)	<b>EGYPT</b> (STA-SUZ)
CP7 15.300	<b>Rossland</b>	Belleveu	El Tablero	Cartago	Cairo
<b>BRAZIL</b> (PPA-PYZ)	CFU 4.755	CZB 1.620	EMZ 10.370	TIN 14.545	SUV 10.855
Rio de Janeiro	CFU 5.660	Crane Island	<b>CHILE</b> (CAA-CEZ)	TIU 14.545	SUZ 13.810 to 13.830
PPQ 11.670	CFU 6.720	CKO 2.284	Santiago	TIR 7.685	<b>ERITREA</b>
PPU 19.270	Saga Creek	Drummondville	CEC 5.820	Puntarenas	Masawa
PRF5 9.585	VXX 5.405	CFA2 4.465	CEC 7.740	TIBWS 7.550	IRG 14.740
PSA 21.070	Slate Creek	CFA4 10.520	CEC 8.710	San Jose	<b>ETHIOPIA</b>
PSD 15.070	CFN 5.705	CGA 18.180	CEC 10.670	TIEP 6.710	Addie Ababa
PSE 14.935	Two Brothers	CGA2 13.745	CEC 15.860	TIEP 13.415	ETA 7.620
PSF 14.690	VDV 4.490	CGA4 9.332	CEC 19.620	TIGPH 5.820	ETA 18.270
PSH 10.220	Vancouver	CGA6 6.690	CEC 19.680	TIPG 6.410	ETB 11.945
PSK 8.180	CGZ 2.452	CGA9 4.348	<b>CHINA</b> (XGA-XUZ)	TIRCC 6.550	<b>FEDERATED</b> <b>MALAY</b> <b>STATES</b> (ZG-)
<b>BRITISH</b> <b>GUIANA</b> (VP3)	VDO 4.436	CGD 3.340	Nanking	San Ramon	Kuala Lumpur
Georgetown	VDO 4.865	CJA3 17.710	XGOX 6.000	TISHM 5.520	ZGE 6.125
VP3MR 7.800	VE9CS 6.070	CJA6 6.760	XOX 9.500	<b>CUBA</b> (CLA-CMZ; COA-COZ)	<b>FIJI</b> (VPA-VSZ)
<b>CANADA</b> (CFA-CKZ; CYA-CZZ; VAA-VGZ; VXA-VYZ)	Waterloo Mine	CZA 2.980	XGOX 11.900	Camaguey	Suva
ALBERTA	CZV 3.300	CZA 4.785	XGOX 17.800	CO9JQ 8.665	VPD 11.075
Calgary	CZV 4.840	CZA 6.285	Shanghai	Havana	<b>FRANCE</b> (F; TYA-TZZ)
CGE 3.040	<b>MANITOBA</b>	CZA 8.515	XGB 11.140	CMB 5.780	Penteoise
CGE 7.550	Winnipeg	CZA 12.660	XGBD 9.580	CMFN 1.712	TYA 12.215
CKS 3.040	CJRO 6.150	VE9DN 6.005	XGK 18.690	COCD 6.130	TYB 12.250
CKS 7.550	CJRJX 11.720	VE9DN 9.555	XGL 7.960	COCH 9.428	9.585; 11.720; 11.880; 15.250; 15.454
VDC 4.490	CJU 3.070	VE9DN 11.780	XGN 16.380	COCO 6.010	Sto. Assise
VE9CA 6.030	CJU 3.452	High Falls	XGO 7.575	Sancti Spiritus	FQO 12.160
VE9CA 11.860	VYV 2.396	Manicouagan	XGW 10.420	CO9WR 11.800	FTA 11.940
Edmonton	<b>NEW</b> <b>BRUNSWICK</b>	Montmagny	<b>COLOMBIA</b> (HJA-HKZ)	Santiago	FTE 18.330
CFQ 3.040	Fredericton	CKP 2.284	Barranquilla	CO9GC 6.150	FTI 9.840
CFQ 7.550	VE9AS 6.425	Montreal	HJA3 7.685	<b>DARIEN</b> (J)	FTK 15.863
<b>BRITISH</b> <b>COLUMBIA</b>	St. John	CGM 3.152	HJA3 8.790	Darien	FTM 19.355
Alert Bay	CJW 2.416	VE9DR 6.005	HJA3 12.810	JDX 15.510	FTN 12.260
VAF 1.510	VE9BJ 6.090	VE9DR 9.580	HJ1AB 6.447	JDY 9.920	Villejust
Anyox	<b>NOVA SCOTIA</b>	VYR 1.712	HJ1ABG 6.042	JDZ 5.710	6.145; 9.585; 11.845; 15.295; 17.765; 21.490
CZQ 5.400	Hallifax	Riviere du Chef	Bogota	<b>DENMARK</b> (OUA-OZZ)	<b>FRENCH</b> <b>INDO-CHINA</b> (F)
Bones Bay	CHNX 6.110	CZY 1.620	HJA2 5.825	Copenhagen	Saigon
CFW 2.290	VBQ 2.350	CZZ 1.620	HJB 14.930	OXY 6.060	FZR 16.200
Campbell River	Lunenburg	Tabouret	HJN 6.880	OXY 9.490	FZS 18.342
CGT 4.865	VBY 1.540	CFL 1.620	HJY 9.930	OXY 15.300	FZS2 11.990
CGT 4.865	VBY 1.650	Verdun	HJY 18.444	<b>DOMINICAN</b> <b>REPUBLIC</b> (HIA-HIZ)	<b>GERMANY</b> (D)
CJD 1.510	<b>PICOU</b>	Yamachiche	HJ1ABD 7.350	San Pedro de	Nauen
CJD 1.540	CKB 2.284	CGY 3.152	HJ1ABF 6.200	Macoris	DFA 19.240
Cape Laze	Picou Island	<b>SASKATCHE-</b> <b>WAN</b>	HJ1ABH 6.012	Santiago de los	DFB 17.520
VAC 1.510	CKU 2.284	Cub Lake	HKE 7.090	Caballeros	DFC 12.980
Coepeocoe	<b>ONTARIO</b>	Emma Lake	Bucaramanga	HI-1-A 6.240	DFD 14.665
CJE 2.290	Bowmanville	CGV 1.596	HJ2ABD 5.980	Santo Domingo	DFF 9.810
CJY 4.595	VE9GW 11.810	CGV 1.668	Call	MI 10.040	DFL 10.850
Hemahke	Kenera	Hudson Bay	HJ1ABD 6.490	MI 10.040	DGK 6.675
VFJ 2.290	CFD 1.620	Junct.	HJ1ABE 6.215	HIL 6.510	DGU 9.609
Humpback Bay	CFD 5.660	Isle-a-la-Croise	HJ1ABH 6.300	HIX 5.980	DHO 20.020
CZL 2.290	Leamington	CZJ 1.596	HJ1ABH 6.012	HIZ 6.340	DJK 12.035
CZP 4.595	CFT 2.284	CZJ 1.668	HKE 7.090	MI4D 6.500	<b>GERMANY</b> (D)
Red Lake	Polce Island	Lac la Ponge	HJ2ABC 5.975	<b>ECUADOR</b> (HCA-HCZ)	Norden
CFJ 1.620	CFX 2.284	CGQ 1.596	Ibague	Guayaquil	DAF 4.320
CFJ 5.660	Red Lake	CGQ 1.668	HJ4ABC 6.450	HC2CW 8.825	DAF 8.444
Toronto	Prince Albert	Prince Albert	HJ4ABD 6.490	HC2J5B 4.283	DAF 12.325
CRCX 6.090	VYP 1.596	VYP 1.668	HJ4ABE 5.900	HC2RL 6.659	
<b>PRINCE</b> <b>EDWARD</b> <b>ISLAND</b>	Regina	Regina	HJ4ABL 6.100	Quito	
Borden	VXU 5.540	Portable	Medallin	HC2CB 8.214	
CJM 1.580	VXW 5.540	<b>CANAL ZONE</b> (W)	HJ4ABA 11.720	Riobamba	
Charlottetown	<b>ALBROOK FIELD</b>	Albrook Field	HJ4ABD 6.060	PRADO 6.620	
VE9EH 6.080	WTR 6.385	WTR 6.385	HJ4ABE 5.900	PRADO 15.440	

## SHORT WAVE STATIONS BY LOCATIONS

<b>DAF</b> 17.260 Zeeseu	<b>ICELAND (TFA-TFZ)</b> Reykjavik TFJ 12.225 TFK 9.050	<b>KENYA (VQ7-)</b> Nairobi VQ7LO 6.060	<b>Bandoeng</b> PLE 18.830 PLF 17.850 PLG 15.950 PLK 14.480 PLM 12.290 PLP 11.000 PLQ 10.670 PLV 9.415 PMA 19.345 PMB 20.606 PMC 18.135 PMN 10.260 PMY 5.140 YDAS 6.120 YDD2 1.630 YDH3 3.490 YDH4 3.310 YDH6 3.130 YDH8 1.960	<b>YDO4</b> 3.170 YDO5 2.930 YDO6 2.770 YDO7 2.070 YDO8 1.980 YDO9 1.880 Tandjongpriok YDA 3.040 YDA 6.040 YDA8 1.510	<b>Ilelle</b> KZGH 5.795 KZGH 9.490 Manila KAX 19.980 KAY 14.980 KAZ 9.990 KBK 6.718 KTO 16.240 KTP 8.120 KZGF 5.765 KZGF 9.170	
DJQ 11.770 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	<b>INDIA (VTA-VWZ)</b> 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 MANCHUKUO (J) Shinklo JZA 15.680 JZB 10.960 JZC 5.830	YDA2 2.385 YDD3 1.585 YDG2 3.470 YDG3 3.150 YDG4 2.850 YDGS 2.090 YDGS 1.900 YDG7 3.300 Bultenzorg YDA3 1.640 YDH9 1.920 Cheribon YDA6 2.870 YDJ4 1.846 Djember YDQ2 3.390 Djocjacarta YDB3 1.660 YDE5 2.350 YDL4 3.410 YDL5 3.210 YDL6 2.750	YDB4 1.615 YDM2 3.320 Sumatra Medan YBG 10.430 YDU2 4.710 YDU3 5.260 YDU4 2.830	Tegal YDJ3 2.870 Tjepoe YDB4 1.615 YDM2 3.320	
<b>GUATEMALA (TGA-TGZ)</b> Guatemala City TGF 14.545 TGWA 6.000 TGXA 6.130 TG1X 9.450 TG2X 5.940	<b>ITALY (I)</b> 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 I2RO 5.550 I2RO 5.725 I2RO 6.085 I2RO 6.980 I2RO 9.630	<b>MEXICO (XAA-XFZ)</b> Guadalajara XEDQ 9.520 MEXICO CITY Mexico City XBJQ 11.000 XEBI 5.980 XEBT 6.000 XECR 7.380 Tiaguana XEOK 6.130 Veracruz XEFT 6.120 XEUW 6.020 MOROCCO (CNA-CNZ) Rabat CNR 8.035 CNR 12.820	YDA2 2.385 YDD3 1.585 YDG2 3.470 YDG3 3.150 YDG4 2.850 YDGS 2.090 YDGS 1.900 YDG7 3.300 Bultenzorg YDA3 1.640 YDH9 1.920 Cheribon YDA6 2.870 YDJ4 1.846 Djember YDQ2 3.390 Djocjacarta YDB3 1.660 YDE5 2.350 YDL4 3.410 YDL5 3.210 YDL6 2.750 Garoot YDH5 3.250 Kediri YDN2 1.940 Madioen 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 YDO2 3.430 YDO3 3.290	<b>NEW ZEALAND (ZKA-ZMZ)</b> Wellington ZLS 8.900 ZLT 11.050 ZLT2 7.390 ZLU 12.300 NICARAGUA (YNA-YNZ) Managua YNA 14.480 NORWAY (LAA-LNZ) Jeloy LCL 6.130 LCO 13.980 LKJ1 9.540 PANAMA (HPA-HPZ) Colon HP5H 6.070 Panama City HPC 10.290 HPF 14.545 HP5B 6.030 HP5J 9.590 PARAGUAY (ZPA-ZPZ) Asuncion ZP10 6.666 ZP11 3.800 PERU (OAA-OCZ) Lima OAX4B 6.230 OAX4D 5.780 OCI 10.962 OCI 18.670 OCJ 15.625 OCO 7.820 PHILIPPINE ISLANDS (K) Cebu KZGG 5.825 KZGG 8.940	<b>PORTUGAL (CSA-CUZ)</b> Lisbon CSL 6.150 CT1AA 9.600 CT1AA 15.350 CT1CT 3.750 CT1CT 12.223 Paredo CT1G0 6.132 PUERTO RICO San Juan WCT 13.410 WMDU 3.070 WMDU 5.485 SIAM (HSA-HSZ) Bangkok RSJ 8.020 HSP 7.968 HSP 8.396 HSP 17.730 SOUTHERN RHODESIA (ZE-) Bulawayo ZEB 6.590 Salisbury ZEA 6.590 SPAIN (EAA-EHZ) Madrid EAQ 9.862 STRAITS SETTLEMENTS (ZH-) Penang ZHJ 6.880 Singapore ZHI 6.060 SWITZERLAND (HBA-HBZ) Berne HB9AT 14.290 HB9B 14.236 HB9H 7.005	
<b>HAWAII (K)</b> Honolulu KGPQ 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	<b>JAPAN (J)</b> 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 10.375 JVP 7.510 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 6.330	<b>NETHERLANDS (PAA-PIZ)</b> 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 NETHERLAND EAST INDIES (PKA-POZ; YBA-YHZ) Borneo Bandjermasin YDUS 1.850 YDV2 3.330 Celebes Macassar PNI 8.775 Menado YBZ 7.680 Java Balikpapan YCP 8.575	<b>NETHERLANDS (PAA-PIZ)</b> 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 NETHERLAND EAST INDIES (PKA-POZ; YBA-YHZ) Borneo Bandjermasin YDUS 1.850 YDV2 3.330 Celebes Macassar PNI 8.775 Menado YBZ 7.680 Java Balikpapan YCP 8.575	<b>NETHERLANDS (PAA-PIZ)</b> 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 NETHERLAND EAST INDIES (PKA-POZ; YBA-YHZ) Borneo Bandjermasin YDUS 1.850 YDV2 3.330 Celebes Macassar PNI 8.775 Menado YBZ 7.680 Java Balikpapan YCP 8.575	<b>NETHERLANDS (PAA-PIZ)</b> 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 NETHERLAND EAST INDIES (PKA-POZ; YBA-YHZ) Borneo Bandjermasin YDUS 1.850 YDV2 3.330 Celebes Macassar PNI 8.775 Menado YBZ 7.680 Java Balikpapan YCP 8.575	<b>HONGKONG (Z)</b> Honkong ZBW 8.750 HUNGARY (HAA-HAZ) Budapest HAS3 15.370 HAT 5.400 HAT2 7.220 HAT3 8.565 HAT4 9.125



## SHORT WAVE STATIONS BY LOCATIONS

Gloucester NOG 2.670 Marshfield WOU 2.506 Medford WPHG 1.712 Mills W1XK 9.570 Newton WPFA 1.712 Northampton WPEW 1.666 Somerville WPEH 1.712 W. Bridgewater WPEL 1.666 Winthrop NMF 2.670 Woods Hole NOP 2.670 Worcester WPGX 2.466	<b>MINNESOTA</b>  Duluth KNFE 2.382 Minneapolis KGPB 2.430 Redwood Falls KNHD 1.658 St. Paul WPDS 2.430  <b>MISSOURI</b>  Jefferson City KIUK 1.674 Kansas City KGPE 2.422 Napoleon WYBF 2.604 St. Louis KGPC 1.706  <b>MONTANA</b>  Glacier Nat'l Park KNIA 2.604  <b>NEBRASKA</b>  Lincoln KGZU 2.490 Norfolk KNGN 2.490 Omaha KGPI 2.466  <b>NEVADA</b>  Reno KGHM 2.474  <b>NEW HAMPSHIRE</b>  Nashua WPHB 2.422  <b>NEW JERSEY</b>  Bound Brook W3XAL 6.100 W3XAL 17.780 W3XL 6.425 W3XL 17.310 Cape May NOV 2.670 Freehold WAKC 2.366 Hackensack WPFK 2.430 Lawrenceville WKA 21.060 WKF 4.253 WKF 19.220 WKK 21.410 WKN 19.820 WLA 18.350 WLK 16.270 WMA 13.390 WMF 14.470 WMN 14.590 WNA 9.170 WNB 10.675 WOA 6.755 WOB 5.850 WOF 9.750 WOK 10.560 WON 9.870 WOY 4.178 WOY 4.753	<b>WOY</b> 8.560 WOY 12.840 WOY 17.120 New Brunswick WKJ 9.460 Ocean Gate WOG 4.253 WOO 4.178 WOO 4.753 WOO 5.560 WOO 12.840 WOO 17.120 Passaic WPDJ 2.414 Tuckerton WCG 19.370 Wayne W2XE 6.120 W2XE 11.830 W2XE 15.270  <b>NEW MEXICO</b>  Albuquerque KGZX 2.414 Clevis KNFA 2.414 Santa Fe KGPF 2.414  <b>NEW YORK</b>  Albany WPGH 2.414 Auburn WPDN 2.382 Binghamton WPGL 2.442 Bronx WPEF 2.450 Brooklyn WPEE 2.450 Buffalo NOB 2.670 NOB 2.698 W MJ 2.422 Huntington WPGO 2.490 Mineola WPGS 2.490 Mitchell Field W09 6.385 New York WOZ 3.423 WPEG 2.450 Niagara Falls WNFP 2.422 Oneonta WQFJ 2.414 Rochester WPBR 2.422 Rockaway Point NMY 2.670 Rocky Point WAD 8.930 WDB 6.718 WDG 4.535 WDN 4.550 WDS 18.900 WEA 10.610 WEB 6.935 WEC 8.930 WEL 8.950 WEL 13.435 WEM 7.400 WES 9.448 WET 9.470 WEZ 6.928 WIR 4.276 WIY 13.870 WJN 7.370	<b>WKC</b> 10.465 WKL 8.940 WKM 18.860 WKO 15.970 WKP 6.950 WKU 14.830 WKW 15.445 WLL 17.900 WQB 17.940 WQE 18.920 WQF 17.920 WQN 5.265 WQN 5.505 WQN 5.825 WQO 6.725 WQP 13.900 WQV 14.800 WQY 20.180 Schenectady W2XAD 15.330 W2XAF 9.530 S. Schenectady WPGC 1.858 St. George WOX 2.590 Syracuse WPEA 2.382 Utica WPGJ 2.414 Yenkers WPFY 2.442  <b>NORTH CAROLINA</b>  Asheville WPF5 2.458 WPF5 2.474 Charlotte WPDV 2.458  <b>NORTH DAKOTA</b>  Fargo KNHM 2.442  <b>OHIO</b>  Akron WPDO 2.458 Cambridge WPHT 1.596 Cincinnati WKDU 1.706 W8XAL 6.060 Cleveland NMD 2.670 NMD 2.698 WRBH 2.458 Columbus WPDI 2.430 WPGQ 1.596 Dayton WPDM 2.430 Findlay WPGG 1.596 Lancaster WQFO 2.430 Leraln WME5 2.550 Mansfield WQFY 2.474 Massillon WPHC 1.596 Portsmouth WPGI 2.430 Stoubenville WPHD 2.458 Suffield WMEP 2.930	<b>WMEP</b> 6.615 Toledo WRDQ 2.474 Wilmington WPHK 1.596 Wright Field PE2 6.445 Youngstown WPDG 2.458 Zanesville WPHO 2.430  <b>OKLAHOMA</b>  Ada KNHC 2.450 Chickasha KACF 2.450 Duncan KNGK 2.450 Lawton KGHP 2.466 Muskogee KNGT 2.450 Oklahoma City KGPH 2.450 Tulsa KGPO 2.450  <b>OREGON</b>  Hood River KIJY 2.728 Klamath Falls KGZH 2.442 Portland KGPP 2.442 Salem KGZR 2.442  <b>PENN-SYLVANIA</b>  Harrisburg WPSP 1.674 Monessen WQFF 2.482 New Castle WPGT 2.482 Oil City WPHZ 2.482 Philadelphia WPDP 2.474 WVHJ 3.410 W3XAU 6.960 W3XAU 9.590 Pittsburgh WPDU 1.712 W8XK 6.140 W8XK 9.570 W8XK 11.870 W8XK 15.210 W8XK 17.780 W8XK 21.540 Reading WPF6 2.442 Swarthmore WPFQ 2.474 Wilkes-Barre WQFM 2.442  <b>RHODE ISLAND</b>  Cranston WPGK 2.466 E. Providence WPEI 1.712 Pawtucket WPFV 2.466	<b>Providence</b> WPGF 1.712 Woonsocket WPEM 2.466  <b>SOUTH DAKOTA</b>  Rapid City KNGM 2.450  <b>TENNESSEE</b>  Elizabethton WPHY 2.474 Johnson City WPGZ 2.474 Knoxville WPFO 2.474 Memphis WPEC 2.466  <b>TEXAS</b>  Austin KGHU 2.442 Beaumont KGPJ 1.712 Brownsville KGHT 2.382 Brownwood KNGW 2.458 Cleburne KNGE 1.712 Corpus Christi KGVH 2.382 Dallas KVP 1.712 Denton KNHF 1.712 El Paso KGZM 2.414 Fort Worth KGFR 1.712 Galveston KNGL 1.712 NOY 2.670 Houston KGBZ 1.712 Lubbock KGZV 2.458 San Antonio KGZE 2.482 Waco KGZQ 1.712 Wichita Falls KGZI 2.458  <b>UTAH</b>  Salt Lake City KGPW 2.406  <b>VIRGINIA</b>  Belling Field IS3 5.015 Cape Henry NMN 2.670 Langley Field FG7 6.645 Lynchburg WQFH 2.450 Petersburg WQFI 2.450 Richmond WPHF 2.450 Roanoke WQFG 2.450
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## SHORT WAVE STATIONS BY LOCATIONS

<b>WASHINGTON</b>	<b>Hells Crossing Camp</b>	<b>Port Townsend</b>	<b>Tacoma</b>	<b>Kenosha</b>	<b>Caracas</b>
Aberdeen	KNFZ 2.490	NOZ 2.670	KGZN 2.414	WPEP 2.450	YV2RC 6.112
KGZV 2.414	Longmire	Pt. Angeles	Vancouver	Milwaukee	YV3RC 6.150
Bear River	KGVA 3.387	KNFC 2.490	KNGC 2.490	WPKD 2.450	YV4RC 6.375
Camp	KGYB 3.387	Quillcene	Walla Walla		YV9RC 6.400
KNFY 2.490	Mt. Olympus	KBAU 3.300	KNGD 2.490	<b>URUGUAY</b>	<b>Maracalbo</b>
Bellingham	KNDI 3.387	Satus Pass	Wenatchee	(CUA-CXA)	YV5RMO 5.850
KNFK 2.490	KNDK 3.387	Camp	KNGQ 2.490		<b>Maracay</b>
Cataract Creek	KNDL 3.387	Seattle	White River		YVQ 6.672
KNLT 3.387	KNDM 3.387	KBAP 3.200	WGYE 3.387	<b>Montevideo</b>	YVQ 13.337
Contralla	KNDP 3.387	KGHD 2.490	KNGB 2.490	CWD 5.830	YVR 9.168
KGHW 2.414	KNDS 3.387	KGPA 2.414	KNGU 2.414	CWE 6.610	YVR 18.296
Chinook Pass	KNDT 3.387	KGVI 3.387		CWF 8.455	YV12RM 6.300
KGHQ 2.490	Mt. Ranier	WVD 2.604		CWG 11.370	San Cristobal
Edmonds	KGVC 3.387	WVD 5.995	<b>WEST</b>	CWH 13.140	YV10RSC 5.720
KOW 2.522	KFYD 3.387	WVD 6.618	<b>VIRGINIA</b>		
Ellensburg	KGYF 3.387	WVD 8.620	Charleston	<b>VATICAN</b>	<b>Valencia</b>
KNFX 2.490	KNLS 3.387	W7XK 3.493	WPHI 2.490	STATE	YV6RV 6.520
Ephrata	KNLX 3.387	Shuksan Camp	Clarksburg	(HVA-HVZ)	
KGZV 2.490	KNLU 3.387	KNFL 2.490	WFPF 2.490		<b>VIRGIN</b>
Everett	Mt. Vernon	Skykomish	Fairmont	Vatican City	ISLANDS
KNPF 2.414	KNFI 2.414	KNFU 2.490	WPHJ 2.490	HVJ 5.970	(W)
Ft. Lewis	North Bend	Snequalmie	Parkersburg	HVJ 15.120	<b>St. Thomas</b>
YT2 4.200	KBAL 3.200	Pass	WPHQ 2.490		WTDV 4.295
Fremont	Olympia	KGHE 2.490		<b>VENEZUELA</b>	<b>St. Croix</b>
KNLV 3.387	KACE 2.414	Spokane	<b>WISCONSIN</b>	(YVA-YWZ)	WTDW 4.295
Grays Harbor	KABT 3.300	KGHS 2.414	Green Bay	Barquisimeto	<b>St. John</b>
NMW 2.670	KNFG 2.490	KGHS 2.458	KNHB 2.382	YV8RB 5.875	WTDX 4.295

## SHORT WAVE STATIONS BY CALLS

CEC 5.820	CGZ 2.452	CWG 11.370	DHDL 13.040	FNSK 13.190	GDW 4.820	HI4D 6.590
CEC 7.740	CJA3 17.710	CWH 13.140	DHEY 4.413	FNSK 13.210	GLRZ 4.415	HJA2 5.825
CEC 8.710	CJA6 6.760	CZA 2.980	DHEY 8.830	FNSM 4.413	GMBJ 4.413	HJA3 7.685
CEC 10.670	CJD 1.510	CZA 4.785	DHEY 13.040	FNSM 8.830	GMBJ 12.955	HJA3 8.790
CEC 15.860	CJD 1.540	CZA 17.310	DHEY 16.480	FNSM 13.395	GSA 6.050	HJA3 12.830
CEC 19.680	CJE 2.290	CZB 1.620	DHJZ 4.413	FNTQ 4.413	GSE 9.510	HJA7 5.400
CFA2 4.465	CJK 1.510	CZG 1.712	DHJZ 8.830	FNTQ 8.830	GSC 9.580	HJB 14.930
CFC 1.596	CJM 1.580	CZG 2.416	DHJZ 13.040	FNTQ 13.385	GSD 11.750	HJN 6.980
CFC 1.668	CJRO 5.150	CZG 6.425	DHO 20.020	FZR 16.200	GSE 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	GSG 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 4.505	DHTY 4.413	GAQ 18.970	GSJ 15.260	HJ1ABB 7.280
CFL 1.620	CJX 2.290	CZP 4.505	DHTY 8.830	GAS 18.304	GSJ 21.530	HJ1ABE 6.115
CFM 1.620	CJZ 2.452	CZQ 5.400	DHTY 13.040	GAU 18.620	GSK 26.190	HJ1ABG 6.842
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	G6RX 4.320	HJ1ABJ 6.006
CFT 2.284	CKS 3.040	CZY 1.620	DJA 9.560	GBB 13.500	HAS3 15.370	HJ2ABD 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	HBF 18.950	HJ3ABH 6.012
CFW 2.290	COCD 6.130	DAF 17.260	DJI 9.675	GBP 10.770	HBH 18.450	HJ4ABA 11.720
CFX 2.284	COCH 9.428	DAF 17.600	DJJ 10.042	GBS 12.150	HBJ 14.535	HJ4ABC 6.230
CGA 18.180	COCO 6.010	DBBR 8.830	DJK 12.035	GBU 12.240	HL 9.595	HJ4ABE 5.900
CGA2 13.745	CO3GC 6.150	DBBR 13.040	DJM 6.080	GBU 22.290	HBP 7.797	HJ4ABL 6.100
CGA4 9.332	CO3JQ 8.665	DDCP 4.413	DJN 9.540	GBW 14.440	HBO 12.030	HJ5ABD 6.490
CGA6 6.890	CO3WR 11.800	DDCP 8.830	DJO 11.790	GBX 10.530	HB9AT 14.290	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 7.005	HPC 10.290
CGD 3.340	CP7 15.300	DDFF 8.830	DOAH 4.413	GBZW 8.830	HB9J 14.400	HPF 14.545
CGE 3.840	CQN 6.073	DDFF 13.040	DOAH 8.830	GBZW 13.320	HCJB 8.214	HP5B 6.030
CGE 7.050	CRCX 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	GCI 13.415	HC2ET 4.690	HRP1 6.356
CGO 4.586	CT1AA 9.600	DFB 17.520	DOAI 13.040	GCS 9.020	HC2JSB 7.770	HSJ 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	HIH 6.800	HSP 8.396
CGQ 1.668	CT1GO 6.132	DHAO 4.413	FG7 6.645	GDB 4.320	HIJ 13.040	HSP 17.740
CGT 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	GDLJ 4.430	HIX 5.980	HVJ 15.120
CGV 1.668	CWE 6.610	DHDL 4.413	FNSK 8.810	GDLJ 13.320	HIZ 6.340	IAC 4.355
CGY 3.152	CWF 8.455	DHDL 8.830	FNSK 8.830	GDS 6.095	HI1A 6.185	IAC 6.650

## SHORT WAVE STATIONS BY CALLS

IAC	12.795	KBCB	3.385	KGVI	3.387	KILU	1.622	KNGT	2.450	NOP	2.670	TGF	14.545
IAC	17.770	KBCD	3.445	KGZA	2.414	KILU	2.150	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	TG1X	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	5.780	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	2.538	KGZI	2.458	KIOH	2.632	KNHE	2.406	OCI	18.670	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	KIUU	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	6.733	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	2.490	KGZW	2.458	KLA	2.566	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	6.990
JIA	15.570	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	VE9ON	6.005
JVA	18.910	KGHG	2.474	KHW	2.912	KLGK	2.738	KNLX	3.387	PHI	11.725	VE9DN	9.555
JVB	18.190	KGHK	1.674	KHZ	2.121	KLH	2.506	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	VE9OR	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	1.882	KIAY	3.093	KNBZ	2.994	KRO	5.845	PLG	15.950	VE9GW	11.810
JVF	15.620	KGHP	2.466	KIBA	3.093	KNDI	3.387	KSW	1.658	PLP	11.008	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	KNOP	3.387	KVP	1.712	PMC	18.135	VK3LR	5.678
JVK	12.020	KGHU	2.442	KIOE	3.265	KNDS	3.387	KWN	21.060	PMN	10.260	VK3LR	9.580
JVL	11.660	KGHV	2.382	KIED	1.622	KNDT	3.387	KWO	15.415	PMY	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	8.095
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	PRADQ	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	14.690	VP3MR	7.080
JVT	6.750	KGOZ	2.466	KIGA	2.102	KNEF	2.830	KZGG	8.940	PSH	10.220	VQJM	4.430
JVU	5.790	KGPA	2.414	KIGW	2.102	KNFA	2.414	KZGH	5.795	PSK	8.180	VQJM	8.830
JVV	5.730	KGPB	2.430	KIHH	2.190	KNFB	2.458	KZGH	9.490	RAU	15.104	VQJP	4.430
JYK	13.600	KGPC	1.706	KIJJ	2.994	KNFE	2.382	LCL	6.130	RFF	7.260	VQJP	8.830
JYR	7.880	KGPD	2.466	KIJJ	3.190	KNFF	2.422	LCO	13.980	RIM	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	8.780
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	KIIO	3.190	KNFP	2.414	LSN	21.020	RKI	7.520	VXU	5.540
KACD	1.682	KGPO	2.450	KIIP	3.093	KNFR	2.490	LSN2	9.890	RKI	15.040	VXV	5.540
KACE	2.414	KGPP	2.442	KIIQ	2.150	KNFS	2.490	LSR	18.958	RKI	15.090	VXV	5.540
KACF	2.450	KGPQ	1.712	KIIW	2.726	KNFU	2.490	LSX	10.350	RKK	6.135	VXX	5.405
KAEB	2.616	KGPR	1.712	KIIX	2.726	KNFX	2.490	LSY3	18.115	RKK	12.270	VYP	1.596
KAEB	3.265	KGPS	2.414	KIYY	2.726	KNFY	2.490	NMC	2.670	RNE	12.000	VYP	1.668
KAED	2.616	KGPP	2.406	KIJB	2.994	KNFZ	2.490	NMD	2.670	ROI	5.490	VYR	1.712
KAED	3.093	KGPX	2.442	KIJJ	1.622	KNGA	2.490	NMD	2.698	RPK	7.225	VYW	2.416
KAEF	2.616	KGPY	1.574	KJK	1.622	KNGB	2.490	NMF	2.670	RPT	5.995	VYZ	2.212
KAEF	2.994	KGPZ	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
KBAA	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	2.414
KBAI	2.304	KGYB	3.387	KIJW	2.632	KNGJ	3.490	NMY	2.670	RV15	4.273	WCT	13.410
KBAL	3.200	KGYC	3.387	KIJX	2.632	KNGK	2.450	NOB	2.670	RV59	5.998	WDB	6.718
KBAM	3.445	KGYD	3.387	KIJJ	2.728	KNGL	1.712	NOB	2.698	SPW	13.630	WDDQ	2.738
KBAP	3.200	KGYE	3.387	KIJZ	2.728	KNGM	2.450	NOF	2.670	SR1	9.490	WDFL	2.738
KBAT	3.300	KGYF	3.387	KIKL	6.615	KNGN	2.490	NOG	2.670	SUV	10.055	WDG	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	7.380	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	XEOK	6.130	YDM2	3.320
WET	9.470	WMEQ	6.615	WPDX	2.414	WPGX	2.466	WWAD	4.988	XEUB	6.020	YDN2	1.940
WEY	1.630	WMES	2.550	WPDY	2.414	WPGZ	2.474	WWAJ	3.410	XGB	11.140	YDN3	2.790
WEZ	6.928	WMEU	2.930	WPDZ	2.490	WPHA	2.466	WWAL	3.410	XGBD	9.580	YDO2	3.430
WHER	2.102	WMEU	6.615	WPEA	2.382	WPHB	2.422	WWAM	3.410	XGK	18.690	YDO3	3.290
WHER	1.606	WMEV	2.930	WPEB	2.442	WPHC	1.596	WWAO	3.410	XGL	7.960	YDO4	3.180
WIED	1.566	WMEV	6.615	WPEC	2.466	WPHD	2.458	WWE	3.410	XGN	16.380	YDO5	2.930
WIED	2.390	WMF	14.470	WPED	1.712	WPHF	1.634	WWG	3.410	XGO	7.575	YDO6	2.770
WIEG	2.150	WMJ	2.422	WPEE	2.450	WPHG	2.450	WWH	3.410	XGOX	6.000	YDO7	2.070
WIEH	1.622	WMN	14.590	WPEF	2.450	WPHI	1.712	WWHJ	3.410	XGOX	9.500	YDO8	1.980
WIEK	1.646	WMN	2.414	WPEG	2.450	WPHI	2.490	WWM	3.410	XGOX	11.900	YDO9	1.880
WIEK	2.190	WMP	1.666	WPEH	1.712	WPHJ	2.490	WWN	3.410	XGOX	17.800	YDQ2	3.390
WIEL	1.646	WNA	9.770	WPEI	1.712	WPHK	1.596	WWR	3.410	XGW	10.420	YDQ3	3.350
WIEL	2.190	WNB	10.675	WPEJ	1.712	WPHM	2.442	WWZ	3.410	YBG	10.430	YDQ4	3.230
WIEO	1.606	WNC	15.055	WPEK	2.430	WPHN	2.466	WXA	8.050	YBZ	7.680	YDQ5	2.950
WIEO	2.020	WND	4.098	WPEL	1.666	WPHO	2.430	WXH	2.604	YCP	8.575	YDQ6	2.810
WIEO	2.102	WNEI	1.622	WPEM	2.466	WPHP	2.466	WXH	6.662	YDA	3.040	YDU2	4.710
WIEO	2.760	WNEI	2.550	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	WPES	2.442	WPHU	1.634	W1XAL	11.790	YDA3	1.640	YDU5	1.850
WIEX	1.566	WNFJ	2.926	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	6.120	YNA	14.480
WIEX	2.102	WOA	6.755	WPFW	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	YDA7	3.270	YN1GG	6.450
WIFI	2.738	WOF	9.750	WPFC	2.442	WQE	18.920	W2XAD	15.330	YDA8	1.510	YVQ	6.672
WIR	4.276	WOFW	2.738	WPDF	2.430	WQF	17.920	W2XAF	9.530	YDB	4.470	YVQ	13.337
WIY	13.870	WOG	4.253	WPFE	2.442	WQFA	2.466	W2XBJ	4.550	YDB2	2.450	YVR	9.168
WJER	1.606	WOK	10.550	WPGG	2.442	WQFB	2.414	W2XBJ	10.370	YDB3	1.660	YVR	18.296
WJER	2.102	WON	9.870	WPGH	2.414	WQFC	2.466	W2XBJ	13.900	YDB4	1.615	YV2RC	6.112
WJN	7.370	WOO	4.178	WPGI	2.414	WQFE	1.634	W2XBJ	17.940	YDB5	1.595	YV3RC	6.150
WKA	21.060	WOO	4.753	WPGK	2.430	WQFG	2.450	W2XE	6.120	YDB6	1.570	YV3RC	9.510
WKC	10.465	WOO	8.560	WPGM	2.382	WQFH	2.450	W2XE	11.830	YDB7	1.530	YV4RC	6.375
WKDL	3.070	WOO	12.840	WPGN	1.712	WQFI	2.450	W2XE	15.270	YDD2	1.630	YV5RMO	5.850
WKDL	5.405	WOO	17.120	WPGO	2.474	WQFJ	2.414	W3XAL	6.200	YDD3	1.585	YV6RV	6.520
WKDT	1.630	WOJ	2.506	WPGP	2.490	WQFK	2.466	W3XAL	17.780	YDE2	4.810	YV10RSC	5.720
WKDU	1.706	WOX	2.590	WPGQ	2.474	WQFL	2.442	W3XAU	6.060	YDE3	2.910	YV12RM	6.300
WKEM	1.622	WOY	4.178	WPGS	2.458	WQFM	2.442	W3XAU	9.590	YDE4	2.415	ZBW	8.750
WKEM	2.150	WOY	4.753	WPGT	2.474	WQFO	2.430	W3XL	6.425	YDE5	2.350	ZEA	6.590
WKF	4.253	WOY	8.560	WPGU	2.442	WQFQ	2.442	W3XL	17.310	YDG2	3.470	ZEB	6.590
WKF	19.220	WOY	12.840	WPGV	2.422	WQFT	1.596	W4XB	6.040	YDG3	3.150	ZFA	5.025
WKJ	9.460	WOY	17.120	WPGW	2.422	WQFT	1.692	W7XK	3.493	YDG4	2.850	ZFB	10.055
WKK	21.410	WOZ	3.423	WPGX	2.466	WQFV	2.414	W8XA	1.682	YDG5	2.090	ZFD	10.335
WKL	8.940	WOS	6.385	WPGY	2.442	WQFW	1.634	W8XAL	6.060	YDG6	1.900	ZFO	5.300
WKM	18.860	WPDA	2.414	WPGA	2.442	WQFY	2.474	W8XK	6.340	YDG7	3.300	ZFS	4.512
WKN	19.828	WPDB	2.414	WPGH	2.442	WQFZ	2.458	W8XK	9.570	YDH3	3.490	ZGE	6.125
WKO	15.970	WPDC	1.712	WPGI	2.466	WQN	5.263	W8XK	11.870	UDH4	3.310	ZHI	6.060
WKP	6.950	WPDD	1.712	WPGJ	2.466	WQN	5.505	W8XK	15.210	UDH5	3.250	ZHJ	6.080
WKU	14.830	WPDE	2.442	WPGK	1.658	WQN	5.825	W8XK	17.789	YDH6	3.130	ZLR	7.390
WKW	15.445	WPDF	2.442	WPGM	2.458	WQO	6.725	W8XK	21.540	YDH7	1.960	ZLS	8.900
WLA	18.350	WPDG	2.458	WPGN	1.712	WQP	13.900	W9XAA	6.080	YDH9	1.920	ZLT	10.990
WLEB	1.646	WPDH	2.442	WPGO	1.596	WQV	14.800	W9XAA	11.830	YD12	2.110	ZSS	19.896
WLEZ	2.150	WPDH	2.430	WPGH	2.414	WQY	20.100	W9XAA	17.780	YD12	3.270	ZSV	8.220
WLFQ	2.738	WPDJ	2.414	WPGI	2.430	WRBH	2.458	W9XAK	2.050	YDJ3	2.870	ZSV	12.500
WLK	16.270	WPDK	2.450	WPGJ	2.414	WRDQ	2.474	W9XBS	6.425	YDJ4	1.840	ZTJ	6.123
WLL	17.900	WPDL	2.442	WPGK	2.466	WRDR	2.414	W9XBU	1.634	YDK2	3.190	ZP10	6.666
WMA	13.390	WPDN	2.430	WPLG	2.442	WRDS	1.642	W9XF	6.200	YDK3	2.910	ZP11	3.800
WMDU	3.070	WPDN	2.382	WPGM	2.414	WRJ	3.410	W9XF	6.425	YDK4	3.270		
WMDU	5.405	WPDO	2.458	WPGN	2.490	WST	3.410	W9XQ	6.425	YDK5	2.710		

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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. Thua, 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) Fredericton, N. B.—Su. 10:00-11:00; 13:00-23:30; †7:10-23:30  
 KFUO ae 500 2 (1) 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  
 KFYZ ae 1000 N (5) Bismarck, N. D.—.....  
 KOAC ak 1000 .....  
 KSD ak 1000 2R 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  
 KTSA ak 1000 C (5) San Antonio, Texas—Su. 8:30-1:00. †7:30-1:00  
 WDEV ae 500 D Waterbury, Vt.—Su. 10:45-12:00. †7:00-17:00  
 WGR ck 1000 C Buffalo, N. Y.—Su. 9:00-1:00. †7:00-1:00  
 WKRC ak 1000 C Cincinnati, Ohio—\*7:00-1:00  
 WSVa ak 500 D Harrisonburg, Va.—Su. 10:30-ss. †7:00-ss

### 560 kilocycles (535.4)

KFDM ak 500 (1) Beaumont, Texas—.....  
 KLZ ae 1000 C Denver, Colo.—Su. 9:45-2:00. †8:30-2:00  
 KFSO ak 1000 ..... San Francisco—Su. 11:30-4:00. †10:00-4:00  
 KWTO ak 500 D Springfield, Mo.—Su. 8:00-18:45. †7:00-18:45  
 WFIL ak 1000 B Philadelphia, Pa.—Su. 8:00-1:00. †7:00-1:00  
 WIND ak 1000 (5) Gary, Ind.—Su. 9:00-1:00. †8:00-1:00  
 WNOX ak 1000 C (2) Knoxville, Tenn.—Su. 8:30-00:30. †7:45-00:30  
 WQAM ae 1000 C Miami, Fla.—Su. 8:00-00:00. †7:00-00:00  
 XEAO ae 250 (.15) Mexicali, L. C.—.....  
 XEFC ak 100 ..... Merida, Yuc.—.....

### 570 kilocycles (526.0)

KGKO ak 250 C (1) Wichita Falls, Tex.—Su. 9:00-00:30. †8:30-00:30  
 KMTR ak 1000 C ..... Hollywood, Calif.—.....  
 KVI ak 1000 C Tacoma, Wash.—Su. 11:00-3:00. †9:00-3:00  
 WKBN ae 500 1C Youngstown, Ohio—Su. 9:00-00:00. †7:30-9:00; 11:00-13:00  
 15:00-20:00. 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  
 WMAC ak 500 ..... New York, N. Y.—Su. 9:00-2:00. †7:00-1:00. Sa. 7:00-2:00  
 WNAX ak 1000 C (5) Yankton, S. D.—Su. 9:00-1:00. †7:00-1:00  
 WOSU ak 750 1 (1) 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  
 WSYR ak 250 BX Syracuse, N. Y.—Su. 8:00-24:00. †7:00-1:00  
 WWNC ak 1000 N Asheville, N. C.—Su. 8:00-1:00. †7:30-1:00

### 580 kilocycles (516.9)

CFPR z 50 ..... Prince Rupert, B. C.—.....  
 CHRC ak 100 F Quebec, Que.—Su. 12:00-23:00. †8:30-14:00; 16:30-23:00  
 CKLQ ae 100 F Toronto, Ont.—.....  
 CKUA ak 500 ..... Edmonton, Alta.—.....  
 KMJ ak 1000 C Fresno, Calif.—Su. 11:30-2:00. †10:00-3:00  
 KSAC ak 500 2 (1) Manhattan, Kans.—†10:30-11:30; 13:30-15:00; 17:30-18:30. Sa. 10:30-11:30; 13:30-15:30  
 WCHS ak 500 (1) Charleston, W. Va.—.....  
 WDBO ae 1000 C Orlando, Fla.—Su. 8:00-24:00; †7:00-24:00  
 WIBW an 1000 C2 (5) Topeka, Kans.—Su. 9:00-1:00. †6:30-10:30; 11:30-13:30; 15:00-16:30; 18:30-1:00  
 WTAG ae 500 R Worcester, Mass.—Su. 10:00-00:00. †07:45-01:00

### 590 kilocycles (508.2)

KHQ ak 1000 N (2.5) Spokane, Wash.—.....  
 WEEI ak 1000 R Boston, Mass.—Su. 09:00-00:00. †07:00-01:00  
 WKZO ae 1000 D Kalamazoo, Mich.—Su. 09:00-18:00. †07:00-18:00  
 WOW ae 5000 R Omaha, Neb.—.....  
 XEPN ak 50000 ..... 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)

KFRC	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
WFX	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)

GMCX	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	.....	Havana, Cuba—.....
KFEQ	ak	2500	D	St. Joseph, Mo.—Su., 9:00-18:45. †7:00-19:00
KPO	ak	50000	N	San Francisco, Calif.—Su., 11:00-3:00. †10:00-3:00
VAS	akn	2000	685	Glace Bay, N. S.—.....
VOWR	ck	500	681	St. John's, Nfld.—.....
WPTF	ae	5000	DnN	Raleigh, N. C.—9:00-23:00 Sun.; †7:00-23:00

**690 kilocycles (434.5)**

CFRB	ak	10000	C	Toronto, Ont.—Su., 10:30-00:00. †8:00-00:00
CJCJ	aj	100	F	Calgary, Alta.—Su., 12:30-00:00. †9:30-16:00; 18:30-1:00
NAA	akn	1000	.....	Arlington, Va.—*10:10-10:15; 11:55-12:00; 15:45-15:50; 21:55-22:05
XET	ak	500	.....	Monterrey, N. L.—Su., 12:00-16:00. †14:00-23:00

**700 kilocycles (428.3)**

WLW	ak	500000	N	Cincinnati, Ohio—Su., 7:00-1:30. †6:30-2:00
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**710 kilocycles (422.3)**

KIRO	ae	500	.....	Seattle, Wash.—.....
KMPC	ak	500	.....	Beverly Hills, Calif.—*00:00-4:00. Su., 10:00-21:00. †9:00-21:00
WOR	ak	50000	.....	Newark, N. J.—.....
XEN	ak	1000	.....	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
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**730 kilocycles (410.7)**

CFPL	ak	100	F	London, Ont.—.....
CJCA	ah	1000	F	Edmonton, Alta.—.....
CKAC	ck	5000	C	Montreal, Que.—Su., 10:30-1:00. †7:30-1:00

**740 kilocycles (405.2)**

KMMJ	ae	1000	D	Clay Center, Neb.—Su., irreg. †6:00-19:00
KTRB	ak	250	D	Modesto, Calif.—Su., 11:30-20:30. †9:00-20:30
WHEB	ak	250	D	Portsmouth, N. H.—Su., 8:00-ss. †9:00-18:15
WSB	ah	50000	N	Atlanta, Ga.—.....

**750 kilocycles (399.8)**

CMCW	dk	150	.....	Havana, Cuba.—.....
KGU	aj	2500	N	Honolulu, T. H.—.....
WJR	ak	50000	C	Detroit, Mich.—Su., 8:00-00:00. †6:00-00:00
XEAM	z	7.5	.....	Matamoros, Tams.—.....

**760 kilocycles (394.5)**

CMHX	ak	500	(.15)	Clenfuegos, Cuba—*8:00-22:00
KXA	ae	250	(.5)	Seattle, Wash.—Su., 10:30-ss. †9:30-ss. Daily exc. Mon., 1:00-4:00. M., 1:00-3:00
WBAL	ae	10000	BSy	Baltimore, Md.—.....
WEW	ae	1000	D	St. Louis, Mo.—*7:00-ss
WJZ	ak	50000	BSy	New York, N. Y.—.....
XEOK	z	250	.....	Tijuana, L. C.—.....

**770 kilocycles (389.4)**

CMBS	ak	150	.....	Havana, Cuba.—.....
KFAB	ae	10000	CSy	Lincoln, Neb.—Su., 10:00-1:00. †7:00-1:00
WBBM	ae	50000	CSy	Chicago, Ill.—Su., 8:45-2:30. †7:50-3:15

**780 kilocycles (384.4)**

CHWK	dk	100	F	Chilliwack, B. C.—Su., 15:00-1:30. †14:45-1:30
CKSO	ak	1000	F	Sudbury, Ont.—Su., 11:00-14:00. †12:00-14:00. *17:00-23:00
CMJK	ak	250	.....	Camaguey, 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	Burbank, Calif.—.....
KFDY	ae	1000	D	Brookings, S. D.—†13:30-15:00
KFQD	ck	250	.....	Anchorage, Alaska—.....
KGHL	ak	1000	N (2.5)	Billings, Mont.—*10:00-1:00
KTM	ak	500	2 (1)	Los Angeles, Calif.—.....
WEAN	ae	500	C	Providence, R. I.—Su., 8:00-1:00. †7:45-1:00
WMC	ak	1000	N (5.)	Memphis, Tenn.—*7:45-1:00. Sa. until 2:00
WTAR	ae	500	N (1)	Norfolk, Va.—Su., 8:30-00:00. †7:00-00:00
XEYZ	z	10000	.....	Mexico City, D. F.—.....

790 kilocycles (379.5)

<del>GMCA</del>	<del>z</del>	<del>150</del>	<del>.....</del>	<del>Havana, Cuba—.....</del>
KGO	ak	7500	N	San Francisco, Calif.—Su., 11:00-3:00. †10:30-3:00
WGY	ak	50000	R	Schenectady, N. Y.—.....
<del>CMGH</del>	<del>z</del>	<del>.....</del>	<del>.....</del>	<del>Matanzas, Cuba</del>

800 kilocycles (374.8)

HIX	ak	700	.....	Santo Domingo, D. R.—Su., 7:10-10:10. †11:10-12:40; 16:40-17:40 Tu., F., 20:10-22:10
WBAP	ak	50000	Na	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
WFAA	ak	50000	Na	Dallas, Tex.—Alternates with WBAP
WTBO	ak	250	D	Cumberland, Md.—Su., 11:00-ss. †8:45-ss.

810 kilocycles (370.2)

<del>CMCF</del>	ak	<del>500</del>	<del>815</del>	Havana, Cuba—Su., 10:00-22:00. †16:30-00:00
CMHW	ak	100	.....	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
WCCO	ae	50000	D	Minneapolis, Minn.—Su., 9:00-1:00. †7:45-1:00. Sa. until 2:00
WNYC	ak	1000	D	New York, N. Y.—†8:00-1 hr. after ss. Sa., Su., 9:00-1 hr. after ss
XFC	z	350	.....	Aguascalientes, Ags.—.....

820 kilocycles (365.6)

WHAS	aj	50000	C	Louisville, Ky.—.....
XETW	dk	500	.....	Mexico City, D. F.—.....
XEMZ	z	.....	.....	Coronado Isle, L. C.—.....

830 kilocycles (361.2)

KOA	ak	50000	N	Denver, Colo.—.....
WEEU	ak	1000	D	Reading, Pa.—*8:00-ss.
WHDH	ae	1000	Dn	Boston, Mass.—.....
WRUF	ae	5000	Dn	Gainesville, Fla.—Su., 8:30-19:30. †8:00-19:30

840 kilocycles (356.9)

CFQC	ak	1000	F	Saskatoon, Sask.—.....
CRCT	ak	5000	FN	Toronto, Ont.—.....
VOGY	ak	400	.....	St. John's, Nfld.—.....
XEP	z	500	.....	Mexico City, D. F.—.....
XERA	ck	250000	.....	Villa Acuna, Coah.—*17:00-10:00
<del>CMBN</del>	<del>z</del>	<del>800</del>	<del>840</del>	<del>Havana, Cuba</del>

850 kilocycles (352.7)

KIEV	ak	100	D	Glendale, Calif.—*9:00-21:00
TIEP	z	500	.....	San Jose, C. R.—.....
WESG	ak	1000	C	Elmira, N. Y.—.....
WKAR	ae	1000	D	East Lansing, Mich.—.....
WWL	ae	10000	C	New Orleans, La.—Su., 9:00-1:00. †7:00-1:00
XEFE	z	250	.....	Nuevo Laredo—.....

860 kilocycles (348.6)

WABC	ak	50000	C	New York, N. Y.—Su., 8:00-2:00. †7:30-2:00
WHB	ak	1000	D	Kansas City, Mo.—*7:00-18:00
XEMO	ak	5000	.....	Tijuana, L. C.—Su., 7:30-2:00. †10:00-4:00
<del>CMBN</del>	<del>z</del>	<del>800</del>	<del>860</del>	<del>Havana, Cuba</del>

870 kilocycles (344.6)

WENR	ak	50000	Na	Chicago, Ill.—Su., 13:00-19:30; 21:00-2:00. †16:00-20:00; 21:30-2:00
WLS	ae	50000	Na	Chicago, Ill.—.....

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

**880 kilocycles (340.7)**

CFJC	ak	100	F	Kamloops, B. C.—.....
GMDN	o	150		Havana, Cuba—.....
GMO	ak	500	885	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
KFKA	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
WBAA	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—.....
KHJ	ae	1000	C (5)	Los Angeles, Calif.—Su., 11:00-4:00. †9:00-4:00
KSEI	ck	250	(.5)	Pocatello, Idaho—.....
WBEN	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
CRCM	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)**

<b>CMX</b>	ae	<b>500</b>	<b>920</b>	Havana, Cuba—Daily exc. Mon., 8:00-1:00. M., 11:00-1:00
HHK	ae	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.—.....
WAAP	ak	1000	D	Chicago, Ill.—*7:00-17:15
WORL	ae	500	D	Babson Park, Mass.—*8:30-17:00
WPEN	ak	250	(.5) 1	Philadelphia, Pa.—.....
WRAX	ak	250	I (5)	Philadelphia, Pa.—.....
WSPA	ae	1000	D	Spartanburg, S. C.—Su., 10:00-19:30. †6:00-19:30
WWJ	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.—.....
KGBZ	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)

<del>GMBC</del>	<del>dt</del>	<del>500</del>	<del>....</del>	<del>Havana, Cuba—Su., 12:00-23:00. †9:00-00:30</del>
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
CMCD		500	945	Havana, Cuba.

## 950 kilocycles (315.6)

GRCS	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	15000	F	Winnipeg, Man.—Su., 12:00-00:00. †9:00-15:00; 17:00-1:00
<del>GMCD</del>	<del>ak</del>	<del>250</del>	<del>....</del>	<del>Havana, Cuba—Su., 17:00-23:00. †11:00-00:00</del>
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.—.....
CMB C		500	970	Havana, Cuba.

## 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	1005	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. †7:30-8:15. †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	....	Hermosillo, 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

GKCD	ak	100	....	Vancouver, B. C.—M., Tu., Sa., 10:30-2:30. W., F., 11:30-00:00 Th., 10:30-00:30
GKCK	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
GKCO	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.—.....
WIIN	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
XRU	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.—.....
KEJ	ak	1000	....	Juarez, Chih.—.....

### 1030 kilocycles (291.1)

GFCN	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
KFBI	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)

<del>CMK</del>	<del>ae</del>	<del>250</del>	....	Havana, Cuba—.....
KTHS	ae	10000	N	Hot Springs, Ark.—*21:00-00:00. †9:00-14:00; 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
XEA	ak	500	....	Guaialajara, Jal.—*9:00-10:30; 13:00-16:00; 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
WFAM	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
WCBD	ak	5000	1Dn	Waukegan, Ill.—Su., 10:00-12:00; 15:30-18:15. †8:30-11:30; 14:00-16:00. M., W., F., 17:30-18:15
WMBI	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	Vancouver, B. C.—Su., 15:00-2:00. †20:30-2:00
KGDM	ak	1000	D	Stockton, Calif.—*9:00-ss
KWKH	ae	19000	C	Shreveport, La.—.....
WLWL	ae	5000	I	New York, N. Y.—Su., 15:15-16:30; 20:00-21:15. †18:00-20:00.
				F., 14:00-15:00
WPG	ak	5000	1C	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
XEL	z	250	.....	Mexico City, D. F.—.....

1110 kilocycles (270.1)

CMGO	ak	250	.....	Havana, Cuba —*9:00-00:00. F., 00:00-1:00
KSOO	ak	2500	Dn	Sloux Falls, S. D.—.....
WRVA	ae	5900	N	Richmond, Va.—Su., 10:00-00:00. †7:00-00:00
XELO	z	10000	.....	Piedras Negras, Co.—.....

1120 kilocycles (267.7)

CHLP	ak	100	F	Montreal, Que.—Su., 17:00-23:00. †8:00-23:00
CHSJ	ae	500	F (1)	St. John, N. B.—Su., 10:00-11:15; 17:00-23:00. †5:00; 6:45-14:00.
				16:00-23:00
CKOC	ae	500	F (1)	Hamilton, Ont.—Su., 10:00-00:00. †8:00-00:00
CKX	ak	100	F	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
CMGF	dk	100	.....	Matanzas, Cuba—.....
CMKM	ak	200	.....	Manzanillo, Cuba—†8:00-11:55; 19:00-22:00
KFIO	ae	100	D	Spokane, Wash.—Su., 11:00-20:00. †9:00-20:00
KFSG	ag	500	a (1)	Los Angeles, Calif.—.....
KRKD	aj	500	a (1)(2.5)	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
KRSC	ak	100	D	Seattle, Wash.—*9:00-ss
WCOP	ak	500	D	Boston, Mass.—Su., 8:00-ss. †7:00-ss
WDEL	ak	250	(.5)	Wilmington, Del.—Su., 10:00-22:30. †9:00-00:00
WISN	ak	250	(1)	Milwaukee, Wis.—Su., 9:00-1:00. †8:00-1:00
WTAW	ae	500	.....	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	.....	Ciego de Avila, Cuba—.....
KSL	ae	50000	C	Salt Lake City, Utah—Su., 9:00-2:00. †8:30-2:00
WJJD	ak	20000	Dn	Chicago, Ill.—Su., 8:00-19:45. †7:00-19:45
WOV	ag	1000	D	New York, N. Y.—.....

1140 kilocycles (263.0)

GMBG	z	200	.....	Havana, Cuba—.....
KVOO	ak	25000	1N	Tulsa, Okla.—Su., 8:30-21:15. M., Tu., W., 7:00-22:00. Th., F.,
				Sa., 7:00-ss; 22:00-2:00
WAPI	ae	5000	1N	Birmingham, Ala.—.....
WSPR	z	500	P	Springfield, Mass.—.....

1150 kilocycles (260.7)

CMJF	z	200	.....	Camaguey, Cuba.—.....
WHAM	ae	50000	B	Rochester, N. Y.—*7:30-00:30
XED	ak	2500	1155	Guadalajara, Jal.—*9:00-10:00; 13:00-1:00
XEFL	z	500	.....	Tijuana, L. C.—.....
XEH	ak	250	.....	Monterrey, N. L.—†10:00-22:00
XEWZ	ak	100	.....	Mexico City, D. F.—*13:00-2:00. Su., 2:00-4:00

1160 kilocycles (258.5)

CMHJ	z	100	.....	Cienfuegos, Cuba—.....
WOWO	ae	10000	1C	Fort Wayne, Ind.—Sa., 8:00-19:30. Su., 8:30-18:00; Daily exc. Sa.
				20:30-1:00. †8:30-18:00
WWVA	ak	5000	1C	Wheeling, W. Va.—Su., 7:30-20:30. †6:00-20:30. Tu., Th., 23:30
				1:00. Sa., 23:30-2:00
XEAS	z	100	.....	Saltillo, Coah.—.....
XEC	z	30	.....	Tijuana, L. C.—.....
XESL	z	.....	.....	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)

GMJO ak 50 ..... Ciego de Avila, Cuba.....  
 KEX ak 5000 2N Portland, Ore.....  
 KOB ak 10000 2 Albuquerque, N. M.—†13:00-23:00  
 VE9EK 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)

~~CMCH~~ ~~CMKJ~~ z 50 ..... ~~Manzanillo, Cuba~~  
 HIJ z 15 1195 Santiago, Cuba.....  
 VONF ak 500 1195 Santo Domingo, D. R.....  
 WATR ak 100 D St. John's, Nfld.—†10:30-12:30; 16:30-18:30. Sa., 20:00-21:30  
 WOAI ak 50000 N Waterbury, Conn.....  
 WSAZ ak 1000 ..... San Antonio, Tex.—Su., 9:00-00:00. †7:55-00:30  
 ..... 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.....  
 KFJX 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.....  
 KGFJ 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 I 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 I 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	1000	....	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
WCRW	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	....	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	C (.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
WOMT	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., 12:30-13:00. †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

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WCAD	ak	500	D	Canton, N. Y.—†12:30-13:30; 15:00-16:00
WCAE	ak	1000	R (5)	Pittsburgh, Pa.—Su., 8:00-1:00. †6:45-1:00
WDAE	ae	1000	C (2.5)	Tampa, Fla.—Su., 9:00-12:00. †8:00-12:00
WREN	ak	1000	Ba (5)	Lawrence, Kas.—Su., 9:00-1:00. †8:00-1:00
XETF	ak	12	....	Veracruz, Ver.—*12:00-17:00. †20:30-1:00. Su., 22:00-1:00

## 1230 kilocycles (243.8)

CJOC	ak	100	F	Lethbridge, Alta. —Su., 11:00-00:30. †9:30-1:00
CMCB	ak	150	....	Havana, Cuba—*10:00-23:00
KGBX	ak	500	....	Springfield, Mo.—*8:00-14:00; 17:00-00:00
KGGM	ak	250	(.5)	Albuquerque, N. M.—Su., 13:00-20:00. †9:00-16:00; 18:00-23:00
KYA	ak	1000	N	San Francisco, Calif.—*11:00-2:00
WFBM	ae	1000	C	Indianapolis, Ind.—Su., 8:00-1:00. †7:30-1:00
WNAC	ak	1000	C (2.5)	Boston, Mass.—Su., 7:00-00:00. †5:30-00:00
XEFJ	ak	100	....	Monterrey, N. L.—†12:00-15:00; 19:00-22:30
YNOP	z	100	....	Managua, Nic.—.....

## 1240 kilocycles (241.8)

CJCB	ak	1000	F	Sydney, N. S.—Su., 14:00-23:00. †9:00-13:00; 16:30-23:00
CMHB	z	50	....	Sancti Spiritus, Cuba—.....
KGCU	ak	250	1	Mandan, N. D.—*14:00-19:00; 20:45-23:00
KLPM	ak	250	1	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
KTAT	ak	1000	....	Fort Worth, Texas—.....
KTFI	ae	1000	....	Twin Falls, Idaho—.....
WKAQ	ae	1000	....	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
WXYZ	ak	1000	B	Detroit, Mich.—.....
XEAI	z	100	....	Mexico City, D. F.—.....
XEKL	z	500	....	Leon, Guan.—.....

## 1250 kilocycles (239.9)

CMCG	ak	250	1255	Havana, Cuba—Su., 8:00-12:00; 18:00-00:00. †8:00-00:00
CMKC	ak	150	....	Santiago, Cuba—Su., 8:00-14:00; 19:00-22:00. †8:00-14:00; 16:00-23:00
KFOX	ae	1000	....	Long Beach, Calif.—Su., 9:00-3:00. †8:30-3:00
WCAL	ah	1000	2 (2.5)	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).
WDSU	ak	1000	....	New Orleans, La.—Su., 9:00-1:00. †8:00-1:00
WHBI	ak	1000	a (2.5)	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
WLB	ak	1000	2	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
WNEW	ae	1000	a (2.5)	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.
WTCN	ak	1000	2 (5)	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	Edmonton, Alta.—Su., 13:00-00:00. †9:30-23:00
KGVO	ak	1000	....	Missoula, Mont.—Su., 12:00-22:00. †9:30-00:00
KOIL	ak	1000	B (2.5)	Council Bluffs, Iowa—.....
KPAC	ak	500	D	Port Arthur, Texas—Su., 8:00-ss. †7:00-ss
KRGV	ak	500	....	Weslaco, Texas—*8:00-22:00
KUOA	ak	1000	D	Fayetteville, Ark.—Su., 11:00-19:00. †7:00-11:00; 13:00-19:00
KVOA	ak	500	....	Tucson, Ariz.—.....
WHIO	ae	1000	R	Dayton, Ohio—Su., 8:00-1:00. †7:30-1:00
WNBX	ak	1000	....	Springfield, Vt.—Su., 10:30-12:00. Sa., 7:15-17:45. †7:15-13:00 14:30-17:45
WTOC	ae	1000	C	Savannah, Ga.—.....

## 1270 kilocycles (236.1)

CMHD	dk	250	....	Caibarien, Cuba—.....
KGGA	ak	100	2D	Decorah, Iowa—Su., 11:45-13:00. †9:30-10:45; 11:45-12:30; 13:30-15:30
KOL	ae	1000	C (2.5)	Seattle, Wash.—Su., 11:00-3:00. †9:45-3:00
KVOR	ae	1000	C	Colorado Springs, Colo.—Su., 11:30-00:00. †9:00-00:00
KWLC	ak	100	2D	Decorah, Iowa—Su., 10:30-11:30. †8:30-9:30; 10:45-11:45; 12:30-13:30; 15:30-16:30
WASH	ak	500	aN	Grand Rapids, Mich.—Su., 9:00-00:00. †7:00-00:00. W., 6:00-6:30
WFBR	ak	500	R	Baltimore, Md.—Su., 9:00-00:00. †7:00-00:00
WJDX	ae	1000	N (2.5)	Jackson, Miss.—.....

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WOOD	ak	500	aN	Grand Rapids, Mich.—Su., 9:00-00:00. †7:00-00:00. W., 6:00-6:30
XEG	z	200	....	Ensenada, L. C.—.....
XFB	ak	250	....	Jalapa, Ver.—.....
YNLF	z	20	1275	Managua, Nic.—.....

1280 kilocycles (234.2)

CMCU	z	150	....	Havana, Cuba—.....
KFBB	ae	1000	(2.5)	Great Falls, Mont.—Su., 11:00-23:00. †10:00-00:00
WCAM	ae	500	1	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
WCAP	ae	500	1	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
WDOD	ak	1000	C (5)	Chattanooga, Tenn.—*8:00-00:30
WIBA	ae	1000	N (5)	Madison, Wis.—Su., 9:00-1:00. †8:00-1:00
WORC	ak	500	C	Worcester, Mass.—.....
WRR	ak	500	....	Dallas, Texas—Su., 8:30-23:30. †8:00-00:00
WTNJ	ak	500	1	Trenton, N. J.—.....
XEMX	z	12	....	Mexico City, D. F.—.....

1290 kilocycles (232.4)

KDYL	ak	1000	N	Salt Lake City, Utah—*8:20-3:00
KLCN	ak	100	D	Blytheville, Ark.—*9:00-19:00
KTRH	ak	1000	C (5)	Houston, Texas—.....
WEBC	ae	1000	N (5)	Superior, Wis.—Su., 9:00-1:00. †8:00-1:00
WJAS	ak	1000	C (2.5)	Su., 9:00-00:00. †7:30-00:30
WNBZ	z	100	D	Saranac Lake, N. Y.—.....
WNEL	ak	1000	(2.)	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)

HIZ	z	10	....	Santo Domingo, D. R. —.....
KALE	ak	500	3C	Portland, Ore.—.....
KFAC	ak	1000	....	Los Angeles, Calif.—.....
KFH	ak	1000	C	Wichita, Kans.—.....
KFJR	aq	500	3	Portland, Ore.—†13:30-17:30; 20:00-21:00. M., Th., Sa., 22:00-23:00. Tu., W., F., 22:00-2:00
WBBR	ae	1000	1	Brooklyn, N. Y.—Su., 8:00-11:00; 15:00-20:00. †6:30-7:00; 10:00-12:00. Tu., W., Th., F., 18:00-20:00
WEVD	ak	1000	1	New York, N. Y.—.....
WFAB	ae	1000	1	New York, N. Y.—*23:00-00:00. Su., 21:00-22:00. †9:00-10:00; 12:00-15:00
WFBC	ak	1000	(5)	Greenville, S. C.—Su., 8:30-22:30. †7:30-22:30
WHAZ	ae	500	1	Troy, N. Y.—M., 18:00-00:00
WIOD	ak	1000	N	Miami, Fla.—Su., 8:00-00:00. †7:30-00:00

1310 kilocycles (228.9)

CHCK	ak	50	....	Charlottetown, P. E. I.—.....
CJKL	ak	1000	....	Kirkland Lake, Ont.—.....
CJLS	ak	500	....	Yarmouth, N. S.—†9:00-12:00; 16:30-18:30
CKGV	ak	100	F	Quebec, Que.—Su., 12:00-23:00. †8:00-14:00; 17:00-23:00
KGRJ	ak	100	D	Jerome, Ariz.—.....
KFPL	dk	100	(.25)	Dublin, Texas—Su., 7:30-22:15. †7:00-22:30
KFXR	ak	100	(.25)	Oklahoma City, Okla.—Su., 10:00-23:00. †7:00-1:00
KFYO	dk	100	(.25)	Lubbock, Texas—Su., 9:00-14:00; 17:00-20:00. †8:00-22:15
KGCX	ak	100	(.25)	Wolf Point, Mont.—Su., 13:30-15:45. †9:30-11:30; 14:00-17:00; 20:00-21:00
KGEZ	aj	100	....	Kalispell, Mont.—Su., 11:00-18:00. †9:00-23:00
KGFW	ak	100	....	Kearney, Neb.—Su., 9:30-13:00. †8:00-14:30; 16:30-22:00
KINY	ak	100	....	Juneau, Alaska—Su., 17:00-21:00. †12:00-18:00; 20:00-2:00. Sa., 2:00-3:00
KIT	ak	100	(.25)	Yakima, Wash.—Su., 12:00-1:00. †10:00-2:00
KIUJ	ak	100	....	Santa Fe, N. Mex.—Su., 12:30-18:30. †9:00-15:30; 18:30-00:00
KMED	ck	100	(.25)	Medford, Ore.—.....
KPDN	z	100	DP	Pampa, Texas—.....
KRMD	ak	100	....	Shreveport, La.—.....
KROC	z	100	....	Rochester, Minn.—.....
KTSM	ak	100	....	El Paso, Texas—Su., 10:00-11:30; 15:00-20:00. †8:30-00:30
KVOL	ak	100	....	Lafayette, La.—Su., 13:00-22:00. †8:00-15:00; 18:00-23:00
KXRO	ak	100	....	Aberdeen, Wash.—Su., 13:00-22:00; †10:30-1:00
WAML	ak	100	....	Laurel, Miss.—.....
WBEO	ae	100	....	Marquette, Mich.—Su., 10:00-14:30. †10:30-17:30
WBOW	ak	100	(.25)	Terre Haute, Ind.—Su., 9:30-23:00. †7:45-15:00; 17:00-00:00
WBRE	ak	100	....	Wilkes-Barre, Pa.—Su., 10:00-22:30. †8:00-23:30 (Sa. until 22:30)
WCLS	ak	100	....	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	Ashland, Ky.—Su., 9:30-00:00. †6:30-00:00
WDAH	ak	100	S	El Paso, Texas—Su. only, 11:30-14:00; 21:30-23:00
WEER	aeh	100	(.25)	Buffalo, N. Y.—Su., 8:30-00:00. †7:00-00:00
WEMP	z	100	D	Milwaukee, Wis.—.....
WEXL	ak	50	.....	Royal Oak, Mich.—Su., 8:30-00:00. †00:00-4:00; 8:00-00:00
WFBG	ae	100	3	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
WFDF	mk	100	.....	Flint, Mich.—Su., 9:00-00:00. †7:00-00:00
WGH	aj	100	(.25)	Newport News, Va.—Su., 8:30-22:30. †7:00-23:00. (Sa. until 00:00)
WHAT	ak	100	4	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
WJAC	ae	100	3	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
WLBC	ak	100	6 (.25)	Muncie, Ind.—Su., 9:30-17:30. †8:00-19:00; 20:30-00:00
WLNL	ak	100	.....	Laconia, N. H.—Su., 9:00-23:00. †8:00-23:00
WMBO	ak	100	.....	Auburn, N. Y.—Su., 10:30-14:00; 18:00-20:30. †8:00-20:00
WMFF	ak	100	D (.25)	Plattsburg, N. Y.—Su., 10:30-16:00. †8:00-16:00
WNBH	ak	100	(.25) C	New Bedford, Mass.—Su., 8:45-23:30. †7:45-23:30
WOL	ak	100	.....	Washington, D. C.—Su., 9:00-00:00. †7:00-00:00
WRWA	ak	100	.....	Reading, Pa.—.....
WROL	ak	100	(.25)	Knoxville, Tenn.—.....
WSAJ	ae	100	.....	Grove City, Pa.—Su., 16:30-17:30. Tu., Th., 19:15-20:15
WSGN	ak	100	(.25)	Birmingham, Ala.—*8:00-22:00
WSJS	ak	100	C	Winston-Salem, N. C.—*8:00-00:00
WTAL	ak	100	.....	Tallahassee, Fla.—*7:00-23:00
WTEL	ce	100	4	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
WTJS	ak	100	(.25)	Jackson, Tenn.—.....
WTRC	ak	100	6 (.25)	Elkhart, Ind.—Su., 12:00-13:00; 18:00-22:00. †9:00-15:00; 18:30-20:30
XEAJ	z	15	.....	Oaxaca, Oax.—.....
XECW	z	10	.....	Mexico City, D. F.—.....
XEFW	ak	250	.....	Tampico, Tams.—.....
XETB	ak	125	.....	Torreón, Coah.—*13:00-18:00. †20:30-23:00
XEX	ak	125	.....	Monterrey, N. L.—.....
XFA	z	5	.....	Aguascalientes, Ags.—.....
.....	z	100	P	Lakeland, Fla.—.....

### 1320 kilocycles (227.1)

CMOX	ak	250	.....	Havana, Cuba—Su., 10:00-12:00; 20:00-23:00. †12:00-00:00
KGHF	ak	500	.....	Pueblo, Colo.—.....
KGMB	ak	1000	C	Honolulu, T. H.—Su., 12:00-3:45. †11:30-4:00 (Su. until 5:00)
KID	ae	250	(.5)	Idaho Falls, Idaho—*11:00-23:00
KRNT	ak	500	C (1)	Des Moines, Iowa—Su., 8:30-1:00. †7:00-1:00
WADC	ae	1000	C (.25)	Akron, Ohio—.....
WORK	ak	1000	.....	York, Pa.—.....
WSMB	ak	500	N	New Orleans, La.—*8:00-1:00. Su. until 2:00

### 1330 kilocycles (225.4)

CMHK	z	250	.....	Cruces, Cuba—.....
KGB	ag	1000	C (.25)	San Diego, Calif.—Su., 11:00-3:00. †10:00-4:00
KMO	ak	250	.....	Tacoma, Wash.—.....
KSCJ	aj	1000	1C (.25)	Sioux City, Iowa—.....
WDRC	ae	1000	C (2.5)	Hartford, Conn.—Su., 8:45-00:00. †8:00-00:00
WSAI	ak	1000	R (.25)	Cincinnati, Ohio—Su., 8:00-00:00. †7:00-00:00
WTAQ	ae	1000	1	Eau Claire, Wis.—Su., 11:30-18:45. †8:00-21:00

### 1340 kilocycles (223.7)

CMJL	z	100	.....	Camaguey, Cuba—.....
HRN	z	50	.....	Tegucigalpa, Hond.—.....
KGDY	ak	250	D	Huron, S. D.—Su., 10:00-16:00. †8:00-19:00
KGIR	ak	1000	N (.25)	Butte, Mont.—Su., 11:00-1:00. †10:00-1:00
KGNO	ak	250	.....	Dodge City, Kans.—.....
WCAO	ak	500	C	Pensacola, Fla.—Su., 9:00-00:00. †8:30-00:00
WFEA	ae	500	C (1)	Manchester, N. H.—.....
WSPD	ae	1000	C (.25)	Toledo, Ohio—Su., 8:00-1:00. †7:00-1:00
XFD	z	350	.....	Jalapa, Ver.—.....

### 1350 kilocycles (222.1)

CMCA	z	250	.....	Havana, Cuba—.....
KIDO	ak	1000	(.25)	Boise, Idaho—.....

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KWK	ak	1000	B (5)	St. Louis, Mo.—.....
WAWZ	ae	500	1 (1)	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
WBNX	ae	250	1	New York, N. Y.—.....

1360 kilocycles (220.4)

CMJH	dk	100	....	Ciego de Avila, Cuba—*8:00-9:30; 10:00-14:00; 17:00-22:00
KCRC	ak	250	....	Enid, Okla.—.....
KGER	ak	1000	....	Long Beach, Calif.—.....
WCSC	ak	500	(1)	Charleston, S. C.—Su., 9:00-15:30; 18:00-21:30. †8:00-15:30; 17:00-22:00
WFBL	ak	1000	C (5)	Syracuse, N. Y.—.....
WGES	ae	500	1	Chicago, Ill.—Su., 9:00-18:00; M., 00:00-2:00. †8:00-13:00; 16:30-21:00
WQBC	ak	1000	D	Vicksburg, Miss.—Su., 11:00-12:00; 13:00-15:00. †9:00-11:00; 13:00-18:00
WSBT	ak	500	1	South Bend, Ind.—.....

1370 kilocycles (218.8)

CKCW	ak	100	F	Moncton, N. B.—*7:00-8:30; 11:00-13:00; 16:00-18:30
CMGE	ak	50	....	Cardenas, Cuba—†11:00-14:00; 18:00-22:30
KAST	ak	100	D	Astoria, Ore.—†10:00-21:30
KELD	z	100	....	El Dorado, Ark.—.....
KERN	ak	100	....	Bakersfield, Calif.—Su., 11:00-3:00. †10:00-3:00
KFGQ	ak	100	....	Boone, Iowa—.....
KFJM	ak	100	(.25)	Grand Forks, N. D.—Su., 11:30-21:00. †9:00-21:00
KFJZ	ae	100	....	Fort Worth, Texas—*8:00-00:00
KFRO	ak	100	D	Longview, Texas—Su., 9:00-ss. †7:00-ss
KGAR	ae	100	(.25)	Tucson, Ariz.—.....
KGFG	bk	100	....	Oklahoma City, Okla.—.....
KGFL	ak	100	4	Roswell, N. M.—Su., 13:00-14:30; 18:30-20:00. †9:00-11:30; 14:00-15:00; 18:00-21:30
KGKL	ak	100	(.25)	San Angelo, Texas—Su., 9:45-15:00. †9:00-22:30
KICA	ak	100	4	Clovis, N. M.—Su., 13:00-18:30. †9:00-18:30; 21:30-23:30
KIUP	ak	100	P	Durango, Colo.—Su., 12:00-18:00. †9:00-1:00
KLUF	z	100	(.25)	Galveston, Texas—.....
KMAC	ak	100	5	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
KONO	ak	100	5	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
KRE	ak	100	(.25)	Berkeley, Calif.—Su., 10:00-3:00. †9:00-3:00
KRKO	ak	50	1	Everett, Wash.—.....
KSLM	ak	100	....	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
KUJ	ak	100	....	Walla Walla, Wash.—Su., 10:45-1:00. M., 9:30-1:00
KVL	ak	100	1	Seattle, Wash.—Su., 19:00-1:30. †15:00-19:30; 22:00-1:30
KWKC	ak	100	....	Kansas City, Mo.—*7:00-10:00; 13:00-16:00; 19:00-22:00
KWYO	ak	100	....	Sheridan, Wyo.—.....
WABY	aj	100	....	Albany, N. Y.—†7:00-00:00
WAGF	ak	250	D	Dothan, Ala.—*9:00-18:15
WATL	ak	100	....	Atlanta, Ga.—Su. 9:00-1:00. †7:30-1:00
WBNY	z	100	2P (.25)	Buffalo, N. Y.—.....
WBTM	ak	100	(.25)	Danville, Va.—Su., 10:00-13:00. †7:00-14:00; 17:00-22:00
WCBM	ae	100	(.25)	Baltimore, Md.—.....
WDAS	ae	100	(.25)	Philadelphia, Pa.—*7:30-00:00
WEOA	z	100	P	Evansville, Ind.—.....
WGL	ae	100	C	Fort Wayne, Ind.—Su., 14:00-16:00; 18:00-21:30. †7:30-10:30; 12:45-14:30; 18:00-1:00
WHBO	ak	100	....	Memphis, Tenn.—.....
WHDF	ak	100	(.25)	Calumet, Mich.—.....
WHLB	z	100	P	Virginia, Minn.—.....
WIBM	ak	100	(.25)	Jackson, Mich.—*7:00-00:45
WILLH	ak	100	(.25)	Lowell, Mass.—Su., 8:00-23:15. †7:30-00:00
WMBR	ak	100	C (.25)	Jacksonville, Fla.—Su., 8:00-00:00. †7:00-00:00
WMFD	ak	100	D	Wilmington, N. C.—Su., 10:00-14:00; 17:00-19:00. †7:30-17:45
WMFO	ak	100	D	Decatur, Ala.—Su., 10:45-18:15. †8:00-18:15
WOC	ak	100	C (.25)	Davenport, Iowa—Su., 10:00-1:00. †8:00-1:00
WPAY	ak	100	....	Portsmouth, Ohio—.....
WPFB	ak	100	....	Hattiesburg, Miss.—Su., 12:00-17:30; 20:00-22:00. †8:00-22:00
WQDM	ae	100	D	St. Albans, Vt.—.....
WRAK	ak	100	(.25)	Williamsport, Pa.—Su., 17:30-22:00. †7:30-20:00
WRDO	ae	100	....	Augusta, Maine—Su., 8:30-15:00; 16:00-23:30. †8:00-23:30
WRJN	ak	100	(.25)	Racine, Wis.—Su., 9:00-23:30. †8:45-23:45
WSVS	ak	50	D2	Buffalo, N. Y.—†8:30-10:30. M., 14:00-15:00
XEFZ	ak	100	....	Mexico City, D. F.—*20:00-3:00
XEI	ak	125	....	Morella, Mich.—.....

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

**XEZZ** z 100 .... San Luis Potosi, SLP.—.....

### 1380 kilocycles (217.3)

<b>CMBX</b>	ak	500	....	Havana, Cuba—Su., 1:00-5:00. †8:00-00:00
<b>KOH</b>	ak	500	C	Reno, Nev.—*11:00-3:00
<b>KOV</b>	ae	500	....	Pittsburgh, Pa.—Su., 9:00-00:00. †7:00-00:00
<b>WALA</b>	af	500	C (1)	Mobile, Ala.—Su., 10:00-00:00. †9:00-00:00
<b>WKBH</b>	ae	1000	....	LaCrosse, Wis.—Su., 11:00-22:30. †8:30-00:00
<b>WNBC</b>	mk	250	D	New Britain, Conn.—Su., 8:00-17:15. †7:00-17:15
<b>WSMK</b>	ak	250	C	Dayton, Ohio—Su., 8:00-1:00. †7:00-19:30; 22:00-1:00

### 1390 kilocycles (215.7)

<b>CJRC</b>	ak	100	F	Winnipeg, Man.—Su. 12:00-5:00; 20:00-22:00. †8:30-24:00
<b>CMJC</b>	z	150	....	Camaguey, Cuba—.....
<b>HIH</b>	ak	15	1395	San Ped. de Macoris, D.R.—.....
<b>KLRA</b>	ae	1000	C (2.5)	Little Rock, Ark.—.....
<b>KOOS</b>	ae	250	....	Marshfield, Ore.—Su., 15:00-22:00. †11:00-23:00
<b>KOY</b>	ae	500	(1)	Phoenix, Ariz.—Su., 11:00-00:15. †9:00-00:15
<b>WHK</b>	ae	1000	C (2.5)	Cleveland, Ohio—Su., 8:00-00:00. †7:30-00:00

### 1400 kilocycles (214.2)

<b>CMGC</b>	z	100	....	Matanzas, Cuba—.....
<b>CMKR</b>	z	100	....	Santiago, Cuba—.....
<b>KLO</b>	ak	500	....	Ogden, Utah—Su., 11:00-23:30. †10:30-23:30
<b>KTUL</b>	ak	500	C (1)	Tulsa, Okla.—.....
<b>TGX</b>	ak	250	....	Guatemala City, Gt.—Su., 14:00-16:00. †8:00-11:30; 14:00-16:00; 20:00-00:00
<b>WARD</b>	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
<b>WBBC</b>	ae	500	2 (1)	Brooklyn, N. Y.—.....
<b>WIRE</b>	ak	500	R (1)	Indianapolis, Ind.—Su., 9:00-1:00. †8:00-1:00
<b>WLTH</b>	ak	500	2	Brooklyn, N. Y.—Su. 11:30-12:00; 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
<b>WVFW</b>	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)

<b>CHNC</b>	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
<b>CKFC</b>	ak	50	5	Vancouver, B. C.—.....
<b>CKMO</b>	ag	100	5F	Vancouver, B. C.—.....
<b>CMCR</b>	z	150	....	Havana, Cuba—.....
<b>KGNC</b>	ae	1000	(2.5)	Amarillo, Texas—.....
<b>WAAB</b>	ak	500	C	Boston, Mass.—Su., 9:30-23:00. †7:30-00:00
<b>WBCM</b>	ae	500	....	Bay City, Mich.—Su., 9:00-00:45. †8:45-00:45
<b>WHBL</b>	ae	500	4Z	Sheboygan, Wis.—.....
<b>WHIS</b>	ak	250	(.5)	Bluefield, W. Va.—.....
<b>WROK</b>	ak	500	4	Rockford, Ill.—*11:00-14:00; 17:00-1:00; 21:00-23:30
<b>WSFA</b>	ak	500	C (1)	Montgomery, Ala.—*7:30-23:30

### 1420 kilocycles (211.1)

<b>CKGB</b>	ak	100	....	Timmins, Ont. —.....
<b>CMGI</b>	z	50	....	Matanzas, Cuba—.....
<b>KABC</b>	ak	100	(.25)	San Antonio, Texas—.....
<b>KABR</b>	ak	100	....	Aberdeen, S. Dak.—.....
<b>KALB</b>	z	100	D	Alexandria, La.—.....
<b>KBPS</b>	aj	100	4	Portland, Ore.—†14:00-15:30; 18:00-20:00
<b>KCMC</b>	ak	100	....	Texarkana, Ark.—.....
<b>KFIZ</b>	ak	100	....	Fond du Lac, Wis.—†10:00-14:00; 17:00-22:00
<b>KGFF</b>	ak	100	(.25)	Shawnee, Okla.—.....
<b>KGGC</b>	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
<b>KGIW</b>	ak	100	1	Alamosa, Colo.—†9:00-16:00; 20:00-23:00
<b>KHBC</b>	z	100	....	Hilo, T. H.—.....
<b>KIDW</b>	ak	100	1	Lamar, Colo.—Su., 13:00-17:30. †9:00-14:00; 17:00-20:00
<b>KIUN</b>	ak	100	....	Pecos, Texas—Su., 8:00-13:00; 17:00-20:00. †8:00-15:00; 17:00-23:00
<b>KNET</b>	z	100	DP	Palestine, Texas—.....
<b>KORE</b>	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	4 (.25)	Portland, Ore.—*10:00-14:00; 15:30-18:00; 20:00-4:00
WAGO	ak	100	C	Waco, Texas—Su., 9:00-23:00. †8:00-00:00
WAGM	ae	100	....	Presque Isle, Maine—Su., 10:00-12:00. †11:00-13:00; 16:00-19:00
WAZL	ak	100	2	Hazleton, Pa.—Su., 11:45-19:30. †10:30-14:30; 16:00-22:00
WCBS	ak	100	....	Springfield, Ill.—*8:00-23:00
WEED	ak	100	3	Rocky Mount, N. C.—Su., 8:00-17:00; *20:00-22:00. †7:00-16:00
WEHC	ak	100	3 (.25)	Charlottesville, Va.—Su., 10:00-12:00. †7:00-13:00; 16:00-20:00
WEHS	ak	100	a	Cicero, Ill.—.....
WELL	ak	100	....	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	D	Olean, N. Y.—Su., 8:00-ss. †7:00-ss
WHFC	ae	100	a	Cicero, Ill.—.....
WILM	aj	100	2	Wilmington, Del.—.....
WJBO	ak	100	....	Baton Rouge, La.—Su. 10:00-18:00. †7:45-23:00
WJBR	z	100	P	Gastonia, N. C.—.....
WJMS	ak	100	....	Ironwood, Mich.—Su., 11:00-20:00. †8:30-20:30
WKBI	ak	100	a	Cicero, Ill.—.....
WLAP	ak	100	(.25)	Lexington, Ky.—Su., 10:00-23:00. †8:00-23:00
WLBF	ak	100	....	Kansas City, Kan.—Su., 10:00-00:00. †8:00-23:00 (Th. until 00:00)
WLEU	ak	100	(.25)	Erie, Pa.—Su., 10:00-23:00. †8:00-23:00
WMAS	ak	100	C (.25)	Springfield, Mass.—Su., 8:00-00:00. †7:30-00:00
WMBG	ae	100	(.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, 8:00-22:30
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., 18:00-23:00

### 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
WHEC	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
TIPS	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)

CFCT	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 St. Paul, Minn.—Su., 9:00-1:00. †7:45-1:15  
**WJSV** ak 10000 C Washington, D. C.—Su., 8:00-1:00. †6:30-1:00

**1470 kilocycles (204.0)**

**CMOK** z 150 ..... Havana, Cuba—  
**KGA** ak 5000 N Spokane, Wash.—  
**WLAC** ak 5000 C Nashville, Tenn.—

**1480 kilocycles (202.6)**

**KOMA** ak 5000 C Oklahoma City, Okla.—Su., 9:00-1:00. †8:00-1:00  
**WKBW** ck 5000 C Buffalo, N. Y.—Su., 9:00-1:00. †7:00-1:00

**1490 kilocycles (201.2)**

**KFBK** ak 5000 C Sacramento, Calif.—Su., 11:00-3:00. †10:00-3:00  
**WCKY** ae 5000 B Covington, Ky.—Su., 8:00-00:00. †7:00-00:00

**1500 kilocycles (199.9)**

**CJIC** ak 100 ..... Sault Ste. Marie, Ont.—\*11:00-14:00; 17:00-20:00  
**CMCN** z 150 ..... Havana, Cuba—  
**KDB** ak 100 C Santa Barbara, Calif.—Su., 11:00-3:00. †10:00-3:00  
**KGFI** ak 100 (.25) Corpus Christi, Tex.—  
**KGFK** ak 100 Y Moorhead, Minn.—Su., 10:00-22:00. †9:00-22:00  
**KGKB** ak 100 ..... Tyler, Texas—\*9:00-15:00; 18:00-00:00  
**KGKY** ak 100 (.25) Scottsbluff, Neb.—Su., 12:00-14:00. †9:00-17:00; 19:00-23:00  
**KNEL** z 100 DP Brady, Texas—  
**KNOW** ak 100 ..... Austin, Texas—Su., 9:00-22:00. †8:00-15:00; 17:00-23:00  
**KOTN** ak 100 D Pine Bluff, Ark.—Su., 11:00-ss. †8:00-ss  
**KPLC** ak 100 ..... Lake Charles, La.—\*18:00-22:00. Su., 8:45-15:00. †8:00-15:00  
**KPO** ak 100 (.25) Wenatchee, Wash.—Su., 12:00-00:00. †10:00-2:00  
**KREG** ak 100 ..... Santa Ana, Calif.—Su., 14:00-15:45; 21:30-2:00. †12:00-2:00  
**KRNR** z 100 DP Roseburg, Ore.—  
**KXO** ae 100 ..... El Centro, Calif.—  
**WCNW** ak 100 1 (.25) 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  
**WDNC** ae 100 C Durham, N. C.—  
**WGAL** ae 100 (.25) Lancaster, Pa.—  
**WHBB** z 100 D Selma, Ala.—  
**WHEF** ak 100 (.25) Kosciusko, Miss.—Su., 9:00-19:00. †7:30-22:00  
**WJBK** ae 100 (.25) Detroit, Mich.—Su., 9:00-00:00. †7:00-00:00  
**WKBB** ak 100 (.25) E. Dubuque, Ill.—Su., 10:00-15:00. †8:00-22:00  
**WKBV** ak 100 ..... Richmond, Ind.—†11:00-13:00; 19:00-23:00  
**WKBZ** ak 100 (.25) Muskegon, Mich.—\*7:30-22:00  
**WKEU** ak 100 ..... Griffin, Ga.—Su., 10:00-18:00. †8:00-18:00  
**WMBQ** ae 100 1 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  
**WMEX** ak 100 (.25) Boston, Mass.—  
**WNBF** ae 100 C Binghamton, N. Y.—  
**WOPI** ae 100 ..... Bristol, Tenn.—Su., 10:30-21:30. †7:00-21:30. (Sa. until 23:00)  
**WRDW** ak 100 ..... Augusta, Ga.—  
**WRGA** ak 100 (.25) Rome, Ga.—  
**WSYB** ak 100 ..... Rutland, Vt.—Su., 10:00-11:00. †10:00-13:00; 17:00-21:00  
**WTMV** ak 100 ..... East St. Louis, Ill.—Su., 9:00-00:00. †7:00-00:00 (Th., F., to 23:00 only)  
**WWRL** ak 100 1 (.25) 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  
**WWSW** ae 100 (.25) Pittsburgh, Pa.—Su., 9:30-22:00. †7:00-23:00  
 ..... z 100 P Muskogee, Okla.—

**1510 kilocycles (198.6)**

**CFRC** ak 100 ..... Kingston, Ont.—Irregular  
**CKCR** ak 100 ..... Waterloo, Ont.—Su., 10:00-14:00; 17:00-23:00. †8:00-14:00; 17:00-00:00

**1530 kilocycles (196.0)**

**W1XBS** z 1000 ..... Waterbury, Conn.—  
**W9XB Y** ak 1000 ..... Kansas City, Mo.—Su., 9:00-3:00. †8:00-3:00

**1550 kilocycles (193.4)**

**W2XR** z 1000 ..... Long Isl. City, N. Y.—†17:00-20:00  
**W6XAI** ak 1000 ..... Bakersfield, 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**
- a Verifies reception for return postage.
  - b Verifies only occasionally.
  - c Does not verify.
  - d Verification 10c; letter 25c.
  - e Sends Ekko stamp for 10c.
  - f Sends Ekko stamp for 5c.
  - g Sends Ekko stamp for postage.
  - h Sends own station stamp for 10c.
  - Sends own station stamp for 5c.
  - Sends own station stamp for postage.

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

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

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

## 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											
<b>Birmingham</b>				KGAR 1370 100	<b>Chico</b>				KFBK 1490 5000 C	<b>San Bernardino</b>													
WAPI 1140 5000 N				KVOA 1260 500	<b>Del Monte</b>				KFXM 1210 100														
WBRC 930 1000 C				Yuma	<b>KDON 1210 100</b>				<b>San Diego</b>														
WSGN 1310 100				KUMA 1420 100	<b>El Centro</b>				KFSD 600 1000 N														
<b>Decatur</b>				<b>ARKANSAS</b>				KXO 1500 100				KGB 1330 1000 C											
WMFO 1370 100				<b>Blytheville</b>				<b>Eureka</b>				<b>San Francisco</b>											
<b>Dothan</b>				KLCN 1290 100	<b>KIEM 1450 500</b>				KFRC 610 100 C				KGGC 1420 100										
WAGF 1370 250				<b>El Dorado</b>				<b>Fresno</b>				KGO 790 7500 N											
<b>Gadsden</b>				KELD 1370 100	<b>Fayetteville</b>				<b>KMJ 580 1000 C</b>				KJBS 1070 500										
WJBY 1210 100				KUOA 1260 1000	<b>Glendale</b>				KPO 680 50000 N				KSFO 560 1000										
<b>Mobile</b>				Fort Smith	<b>KIEV 850 100</b>				KYA 1230 1000 N				<b>San Jose</b>										
WALA 1380 500 C				KFPW 1210 100	<b>Hollywood</b>				KQW 1010 1000				<b>Santa Ana</b>										
<b>Montgomery</b>				Hot Springs	<b>KFWB 950 1000</b>				<b>KMTR 570 1000</b>				KREG 1500 100										
WSFA 1410 500 C				KTHS 1060 10000 N	<b>Long Beach</b>				<b>Santa Barbara</b>				KDB 1500 100 C										
<b>Selma</b>				Jonesboro	<b>KFOX 1250 1000</b>				<b>Stockton</b>				KGDM 1100 1000										
WHBB 1500 100				KBTM 1200 100	<b>KGER 1360 1000</b>				KWG 1200 100 C				<b>ALASKA</b>										
<b>Sheffield</b>				Little Rock	<b>Los Angeles</b>				<b>ALABAMA</b>				<b>ANCHORAGE</b>										
WNRA 1420 100				KARK 890 250	<b>KECA 1430 1000 N</b>				Anchorage				KFQD 780 250										
<b>ALASKA</b>				KLRA 1390 1000 C	<b>KFAC 1300 1000</b>				Juneau				KINY 1310 100										
<b>ANCHORAGE</b>				Pine Bluff	<b>KFI 640 50000 N</b>				Ketchikan				KGBU 900 500										
<b>ANCHORAGE</b>				KOTN 1500 100	<b>KFSG 1120 500</b>				<b>TEXAS</b>				<b>ARIZONA</b>										
<b>ANCHORAGE</b>				Texarkana	<b>KFVD 1000 250</b>				<b>ALABAMA</b>				<b>ALABAMA</b>										
<b>ANCHORAGE</b>				KCMC 1420 100	<b>KGFJ 1200 100</b>				<b>ALABAMA</b>				<b>ALABAMA</b>										
<b>ANCHORAGE</b>				<b>CALIFORNIA</b>				<b>KHJ 900 1000 C</b>				<b>ALABAMA</b>				<b>ALABAMA</b>							
<b>ANCHORAGE</b>				<b>Bakersfield</b>				<b>KRHD 1120 500</b>				<b>ALABAMA</b>				<b>ALABAMA</b>							
<b>ANCHORAGE</b>				KERN 1370 100 C	<b>Modesto</b>				<b>KTM 780 500</b>				<b>ALABAMA</b>				<b>ALABAMA</b>						
<b>ANCHORAGE</b>				W6XAI 1550 1000	<b>KTRB 740 250</b>				<b>Oakland</b>				<b>ALABAMA</b>				<b>ALABAMA</b>						
<b>ANCHORAGE</b>				<b>Berkeley</b>				<b>KLS 1440 250</b>				<b>ALABAMA</b>				<b>ALABAMA</b>							
<b>ANCHORAGE</b>				KRE 1370 100	<b>KLX 880 1000</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>						
<b>ANCHORAGE</b>				Beverly Hills	<b>KROW 930 1000</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>						
<b>ANCHORAGE</b>				KMPC 710 500	<b>Pasadena</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>						
<b>ANCHORAGE</b>				<b>CALIFORNIA</b>				<b>KPPC 1210 50</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>			
<b>ANCHORAGE</b>				<b>Bakersfield</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>			
<b>ANCHORAGE</b>				<b>Modesto</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>			
<b>ANCHORAGE</b>				<b>Oakland</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>			
<b>ANCHORAGE</b>				<b>Berkeley</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>			
<b>ANCHORAGE</b>				<b>Beverly Hills</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>			
<b>ANCHORAGE</b>				<b>Modesto</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>			
<b>ANCHORAGE</b>				<b>Oakland</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>			
<b>ANCHORAGE</b>				<b>Berkeley</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>			
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<b>ANCHORAGE</b>				<b>Modesto</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>			
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<b>ANCHORAGE</b>				<b>Berkeley</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>				<b>ALABAMA</b>			

# NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p><b>Grand Junction</b>                      KFXJ 1200 100                      Greeley                      KPKA 880 500                      Lamar                      KIDW 1420 100                      Pueblo                      KGHF 1320 500                      Sterling                      KGEK 1200 100</p> <hr/> <p style="text-align: center;"><b>CONNECTICUT</b></p> <hr/> <p><b>Bridgeport</b>                      WICC 600 500 C                      Hartford                      WDRC 1330 100 C                      WTIC 1040 50000 R                      ..... 1200 100  <b>New Britain</b>                      WNBC 1380 250  <b>New Haven</b>                      WELI 900 500  <b>Storrs</b>                      WCAC 600 500  <b>Waterbury</b>                      WATR 1190 100                      WIXBS 1530 1000</p> <hr/> <p style="text-align: center;"><b>DELAWARE</b></p> <hr/> <p><b>Wilmington</b>                      WDEL 1120 250                      WILM 1420 100</p> <hr/> <p style="text-align: center;"><b>DISTRICT OF COLUMBIA</b></p> <hr/> <p><b>Washington</b>                      WJSV 1460 10000 C                      WMAL 630 250 B                      WOL 1310 100                      WRC 950 500 R</p> <hr/> <p style="text-align: center;"><b>FLORIDA</b></p> <hr/> <p><b>Clearwater</b>                      WFLA 620 1000 N  <b>Daytona Beach</b>                      WMFJ 1420 100  <b>Gainesville</b>                      WRUP 830 500  <b>Jacksonville</b>                      WJAX 900 1000 N  <b>WMBR</b> 1370 100 C  <b>Lakeland</b>                      ..... 1310 100  <b>Miami</b>                      WIOD 1300 1000 N  <b>WQAM</b> 560 1000 C  <b>Orlando</b>                      WDBO 580 1000 C  <b>Pensacola</b>                      WCOA 1340 500 C  <b>St. Petersburg</b>                      WSUN 620 1000 N  <b>Tallahassee</b>                      WTAL 1310 100  <b>Tampa</b>                      WDAE 1220 1000 C  <b>West Palm Beach</b>                      ..... 1200 100</p> <hr/> <p style="text-align: center;"><b>GEORGIA</b></p> <hr/> <p><b>Albany</b>                      WGPC 1420 100  <b>Athens</b>                      WTFI 1450 500</p>	<p><b>Atlanta</b>                      WATL 1370 100                      WGST 890 500 C                      WSB 740 50000 N  <b>Augusta</b>                      WRDW 1500 100  <b>Columbus</b>                      WRBL 1200 100  <b>Griffin</b>                      WKEU 1500 100  <b>Macon</b>                      WMAZ 1180 1000  <b>Rome</b>                      WRGA 1500 100  <b>Savannah</b>                      WTOG 1250 1000 C  <b>Thomasville</b>                      WPAX 1210 250</p> <hr/> <p style="text-align: center;"><b>HAWAII</b></p> <hr/> <p><b>Hilo</b>                      KHCB 1420 100  <b>Honolulu</b>                      KGBM 1320 1000 C                      KGU 750 2500 N</p> <hr/> <p style="text-align: center;"><b>IDAHO</b></p> <hr/> <p><b>Boise</b>                      KIDO 1350 1000  <b>Idaho Falls</b>                      KID 1320 250  <b>Lawiston</b>                      KRRC 1420 100  <b>Nampa</b>                      KFXD 1200 100  <b>Pocatello</b>                      KSEI 900 250  <b>Twin Falls</b>                      KTFI 1240 1000</p> <hr/> <p style="text-align: center;"><b>ILLINOIS</b></p> <hr/> <p><b>Bloomington</b>                      WJBC 1200 100  <b>Carthage</b>                      WCAZ 1070 100  <b>Chicago</b>                      WAAF 920 1000                      WBBM 770 50000 C                      WCFL 970 5000 B                      WCRW 1210 100                      WEDC 1210 100                      WENR 870 50000 N                      WGES 1360 500                      WGN 720 50000                      WJJD 1130 20000                      WLS 870 50000 N                      WMAQ 670 50000 N                      WMBI 1080 5000                      WSBC 1210 100  <b>Cicero</b>                      WEHS 1420 100                      WHFC 1420 100                      WKBI 1420 100  <b>Decatur</b>                      WJBL 1200 100  <b>East Dubuque</b>                      WKBB 1500 100  <b>East St. Louis</b>                      WTMV 1500 100  <b>Harrisburg</b>                      WEBQ 1210 100  <b>Joliet</b>                      WCLS 1310 100  <b>Peoria</b>                      WMBD 1440 500 C</p>	<p><b>Quincy</b>                      WTAD 900 500  <b>Rockford</b>                      WROK 1410 500  <b>Rock Island</b>                      WHBF 1210 100  <b>Springfield</b>                      WCBS 1420 100                      WTAX 1210 100  <b>Tuscola</b>                      WDZ 1070 100  <b>Urbana</b>                      WILL 890 250  <b>Waukegan</b>                      WCBF 1080 5000</p> <hr/> <p style="text-align: center;"><b>INDIANA</b></p> <hr/> <p><b>Anderson</b>                      WHBU 1210 100  <b>Elkhart</b>                      WTRC 1310 100  <b>Evansville</b>                      WEOA 1370 100                      WGBF 630 500  <b>Fort Wayne</b>                      WGL 1370 100 C                      WOWO 1160 10000 C  <b>Gary</b>                      WIND 560 1000  <b>Hammond</b>                      WWAE 1200 100  <b>Indianapolis</b>                      WFBM 1230 1000 C                      WIRE 1400 500 R  <b>Muncie</b>                      WLBC 1310 100  <b>Richmond</b>                      WKBV 1500 100  <b>South Bend</b>                      WFAM 1280 100                      WSBT 1360 500 C  <b>Terre Haute</b>                      WBOW 1310 100  <b>West Lafayette</b>                      WBAA 890 1000</p> <hr/> <p style="text-align: center;"><b>IOWA</b></p> <hr/> <p><b>Ames</b>                      WOI 640 5000  <b>Boone</b>                      KFGQ 1370 100  <b>Cedar Rapids</b>                      WMT 600 1000 B  <b>Council Bluffs</b>                      KOIL 1260 1000 B  <b>Davenport</b>                      WOC 1370 100 C  <b>Decorah</b>                      KGCA 1270 100                      KWLC 1270 100  <b>Des Moines</b>                      KRNT 1320 500 C                      KSO 1430 500 B                      WHO 1000 50000 R  <b>Iowa City</b>                      WSUI 880 500  <b>Marshalltown</b>                      KFJB 1200 100  <b>Shenandoah</b>                      KFNF 890 500                      KMA 930 1000  <b>Stoux City</b>                      KSCJ 1330 1000 C</p> <hr/> <p style="text-align: center;"><b>KANSAS</b></p> <hr/> <p><b>Ablene</b>                      KFBI 1050 5000</p>	<p><b>Coffeyville</b>                      KGGF 1010 1000  <b>Dodge City</b>                      KGNO 1340 250  <b>Garden City</b>                      KIUL 1210 100  <b>Hutchinson</b>                      KWBG 1420 100  <b>Kansas City</b>                      WLBK 1420 100  <b>Lawrence</b>                      KFBU 1220 1000                      WREN 1220 100 B  <b>Manhattan</b>                      KSAC 580 500  <b>Topoka</b>                      WIBW 580 1000 C  <b>Wichita</b>                      KPH 1300 1000 C</p> <hr/> <p style="text-align: center;"><b>KENTUCKY</b></p> <hr/> <p><b>Ashland</b>                      WCMI 1310 100  <b>Covington</b>                      WCKY 1490 5000 B  <b>Lexington</b>                      WLAP 1420 100  <b>Louisville</b>                      WAVE 940 1000 N                      WHAS 820 50000 C  <b>Paducah</b>                      WPAD 1420 100</p> <hr/> <p style="text-align: center;"><b>LOUISIANA</b></p> <hr/> <p><b>Alexandria</b>                      KALB 1420 100  <b>Baton Rouge</b>                      WJBO 1420 100  <b>Lafayette</b>                      KVOL 1310 100  <b>Lake Charles</b>                      KPLC 1500 100  <b>Monroe</b>                      KMLB 1200 100  <b>New Orleans</b>                      WBNO 1200 100                      WDSU 1250 1000                      WJBW 1200 100                      WSMB 1320 500 N                      WWL 850 10000 C  <b>Shreveport</b>                      KRMD 1310 100                      KTBS 1450 1000 N                      KWKH 1100 1000 C</p> <hr/> <p style="text-align: center;"><b>MAINE</b></p> <hr/> <p><b>Augusta</b>                      WRDO 1370 100  <b>Bangor</b>                      WABI 1200 100                      WBLZ 620 500 C  <b>Portland</b>                      WCSH 940 1000 R  <b>Presque Isle</b>                      WAGM 1420 100</p> <hr/> <p style="text-align: center;"><b>MARYLAND</b></p> <hr/> <p><b>Baltimore</b>                      WBAL 1060 10000 B                      WCAO 600 500 C                      WCBM 1370 100                      WFBR 1270 500 R  <b>Cumberland</b>                      WTBO 800 250  <b>Frederick</b>                      WFMD 900 500</p>
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# NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p><b>Hagerstown</b> WJEJ 1210 100</p> <hr/> <p><b>MASSACHUSETTS</b></p> <p><b>Babson Park</b> WORL 920 500</p> <p><b>Boston</b> WAAB 1410 500 C WBZ 930 5000 B WCOP 1120 500 WEEL 590 1000 R WHDH 830 1000 R WMEX 1500 100 WNAC 1230 1000 C</p> <p><b>Fall River</b> WSAR 1450 1000</p> <p><b>Lowell</b> WLLH 1370 100</p> <p><b>New Bedford</b> WNBH 1310 100 C</p> <p><b>Springfield</b> WEZA 990 1000 B WMAS 1420 100 C ..... 1140 500</p> <p><b>Worcester</b> WORC 1280 500 C WTAG 580 500 R</p> <hr/> <p><b>MICHIGAN</b></p> <p><b>Battle Creek</b> WELL 1420 100</p> <p><b>Bay City</b> WBCM 1410 500</p> <p><b>Calumet</b> WHDF 1370 100</p> <p><b>Detroit</b> WJBK 1500 100 WJR 750 50000 C WMBC 1420 100 WWJ 920 1000 R WXYZ 1240 1000 B</p> <p><b>East Lansing</b> WKAR 850 1000</p> <p><b>Flint</b> WFDF 1310 100</p> <p><b>Grand Rapids</b> WASH 1270 500 N WOOD 1270 500 N</p> <p><b>Ironwood</b> WJMS 1420 100</p> <p><b>Jackson</b> WIBM 1370 100</p> <p><b>Kalamazoo</b> WKZO 590 1000</p> <p><b>Lansing</b> WJIM 1210 100</p> <p><b>Lapeer</b> WMPC 1200 100</p> <p><b>Marquette</b> WBEO 1310 100</p> <p><b>Muskegon</b> WKBZ 1500 100</p> <p><b>Royal Oak</b> WEXL 1310 50</p> <hr/> <p><b>MINNESOTA</b></p> <p><b>Fergus Falls</b> KGDE 1200 100</p> <p><b>Hibbing</b> WMFG 1210 100</p> <p><b>Minneapolis</b> WCCO 810 50000 C WDGY 1180 1000 WLB 1250 1000 WTCN 1250 1000</p> <p><b>Moorhead</b> KGFK 1500 100</p>	<p><b>Northfield</b> WCAL 1250 1000</p> <p><b>Rochester</b> KROC 1310 100</p> <p><b>St. Paul</b> KSTP 1460 25000 N</p> <p><b>Virginia</b> WHLB 1370 100</p> <hr/> <p><b>MISSISSIPPI</b></p> <p><b>Clarksdale</b> WMFN 1210 100</p> <p><b>Gulfport</b> WGCM 1210 100</p> <p><b>Hattiesburg</b> WPFB 1370 100</p> <p><b>Jackson</b> WJDX 1270 1000 N</p> <p><b>Kosciusko</b> WHEF 1500 100</p> <p><b>Laurel</b> WAML 1310 100</p> <p><b>Meridian</b> WCOC 880 500</p> <p><b>Mississippi City</b> WGCM 1120 500</p> <p><b>Vicksburg</b> WQBC 1360 1000</p> <hr/> <p><b>MISSOURI</b></p> <p><b>Cape Girardeau</b> KFVS 1210 100</p> <p><b>Columbia</b> KFRU 630 500</p> <p><b>Jefferson City</b> WOS 630 500</p> <p><b>Joplin</b> WMBH 1420 100</p> <p><b>Kansas City</b> KMBC 950 1000 C KWKC 1370 100 WDAF 610 1000 R WHB 860 1000 W9XBY 1530 1000</p> <p><b>St. Joseph</b> KFEQ 680 2500</p> <p><b>St. Louis</b> KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B WEW 760 1000 WIL 1200 100</p> <p><b>Springfield</b> KGBX 1230 500 KWTO 560 5000</p> <hr/> <p><b>MONTANA</b></p> <p><b>Billings</b> KGHL 780 1000 N</p> <p><b>Butte</b> KGIR 1340 1000 N</p> <p><b>Great Falls</b> KFBB 1280 1000</p> <p><b>Kalispell</b> KGEZ 1310 100</p> <p><b>Missoula</b> KGVO 1260 1000</p> <p><b>Wolf Point</b> KGCX 1310 100</p> <hr/> <p><b>NEBRASKA</b></p> <p><b>Clay Center</b> KMMJ 740 1000</p> <p><b>Kearney</b> KGFV 1310 100</p>	<p><b>Lincoln</b> KFAB 770 10000 C KFOR 1210 100 C</p> <p><b>Norfolk</b> WJAG 1060 1000</p> <p><b>North Platte</b> KGNF 1430 1000</p> <p><b>Omaha</b> WAAW 660 500 WOW 590 5000 R</p> <p><b>Scottsbluff</b> KGKY 1500 100</p> <p><b>York</b> KGBZ 930 1000</p> <hr/> <p><b>NEVADA</b></p> <p><b>Reno</b> KOH 1380 500 C</p> <hr/> <p><b>NEW HAMPSHIRE</b></p> <p><b>Laconia</b> WLNH 1310 100</p> <p><b>Manchester</b> WFEA 1340 500 C</p> <p><b>Portsmouth</b> WHEB 740 250</p> <hr/> <p><b>NEW JERSEY</b></p> <p><b>Asbury Park</b> WCAP 1280 500</p> <p><b>Atlantic City</b> WPG 1100 5000 C</p> <p><b>Camden</b> WCAM 1280 500</p> <p><b>Jersey City</b> WAAT 940 500 WHOM 1450 250</p> <p><b>Newark</b> WHBI 1250 1000 WNEW 1250 1000 WOR 710 50000</p> <p><b>Red Bank</b> WBRB 1210 100</p> <p><b>Trenton</b> WTNJ 1280 500</p> <p><b>Zarephath</b> WAWZ 1350 500</p> <hr/> <p><b>NEW MEXICO</b></p> <p><b>Albuquerque</b> KGGM 1230 250 KOB 1180 10000</p> <p><b>Clovis</b> KICA 1370 100</p> <p><b>Roswell</b> KGFL 1370 100</p> <p><b>Santa Fe</b> KIUF 1310 100</p> <hr/> <p><b>NEW YORK</b></p> <p><b>Albany</b> WABY 1370 100 WOKO 1430 500 C</p> <p><b>Auburn</b> WMBO 1310 100</p> <p><b>Binghamton</b> WNFB 1500 100</p> <p><b>Brooklyn</b> WARD 1400 500 WBBC 1400 500 WBBR 1300 1000 WCNW 1500 100 WLTH 1400 500 WMBQ 1500 100</p>	<p><b>WVFW</b> 1400 500</p> <p><b>Buffalo</b> WBEN 900 1000 R WEBR 1310 100 WGR 550 1000 C WKBW 1480 5000 C WSVS 1370 50 WBNY 1370 100</p> <p><b>Canton</b> WCAD 1220 500</p> <p><b>Chester</b> WGNV 1210 100</p> <p><b>Elmira</b> WESG 850 1000 C</p> <p><b>Freeport</b> WGBB 1210 100</p> <p><b>Jamestown</b> WOCL 1210 50</p> <p><b>Long Island City</b> W2XR 1550 1000</p> <p><b>New York</b> WABC 860 50000 C WBNX 1350 250 WBOQ 860 50000 WEAF 660 50000 R WEVD 1300 1000 WFAB 1300 1000 WHN 1010 1000 WINS 1180 1000 WJZ 760 50000 B WLWL 1100 5000 WMLA 570 500 WNYC 810 1000 WOV 1130 1000</p> <p><b>Olean</b> WHDL 1420 100</p> <p><b>Plattsburg</b> WMFF 1310 100</p> <p><b>Rochester</b> WHAM 1150 50000 B WHEC 1430 500 C WSAY 1210 100</p> <p><b>Saranac Lake</b> WNBZ 1290 100</p> <p><b>Schenectady</b> WGY 790 50000 R</p> <p><b>Syracuse</b> WFBL 1360 1000 C WSYR 570 250 B</p> <p><b>Troy</b> WHAZ 1300 500</p> <p><b>Utica</b> WIBX 1200 100 C</p> <p><b>White Plains</b> WFAS 1210 100</p> <p><b>Woodside</b> WWRL 1500 100</p> <hr/> <p><b>NORTH CAROLINA</b></p> <p><b>Asheville</b> WWNC 570 1000 N</p> <p><b>Charlotte</b> WBT 1080 50000 C WSOC 1210 100 N</p> <p><b>Durham</b> WDNC 1500 100 C</p> <p><b>Gastonia</b> WJBR 1420 100</p> <p><b>Greensboro</b> WBIG 1440 500 C</p> <p><b>High Point</b> WMFR 1200 100</p> <p><b>Raleigh</b> WPTF 680 5000 N</p> <p><b>Rocky Mount</b> WEED 1420 100</p> <p><b>Wilmington</b> WMFD 1370 100</p>
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# NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<b>Winston-Salem</b> WSJS 1310 100 C
<b>NORTH DAKOTA</b>
<b>Bismarck</b> KFYR 550 1000 N
<b>Devils Lake</b> KDLR 1210 100
<b>Fargo</b> WDAY 940 1000
<b>Grand Forks</b> KFJW 1370 100
<b>Mandan</b> KGCU 1240 250
<b>Minot</b> KLPM 1240 250
<b>OHIO</b>
<b>Akron</b> WADC 1320 1000 C
<b>WJW</b> 1210 100
<b>Canton</b> WHBC 1200 100
<b>Cincinnati</b> WCPO 1200 100
<b>WKRC</b> 550 1000 C
<b>WLW</b> 700 500000 N
<b>WASI</b> 1330 1000 R
<b>Cleveland</b> WGAR 1450 500 B
<b>WHK</b> 1390 1000 C
<b>WJAY</b> 610 500
<b>WTAM</b> 1070 50000 R
<b>Columbus</b> WAU 640 500
<b>WBNS</b> 1430 500 C
<b>WCOL</b> 1210 100
<b>WOSU</b> 570 750
<b>Dayton</b> WHIO 1260 1000 R
<b>WSMK</b> 1380 200 C
<b>Portsmouth</b> WPAY 1370 100
<b>Toledo</b> WSPD 1340 1000 C
<b>Youngstown</b> WKBN 570 500 C
<b>Zanesville</b> WALR 1210 100
<b>OKLAHOMA</b>
<b>Ada</b> KADA 1210 100
<b>Ardmore</b> KVSO 1200 100
<b>Elk City</b> KASA 1210 100
<b>Enid</b> KCRC 1360 250
<b>Muskogee</b> ..... 1500 100
<b>Norman</b> WNAD 1010 1000
<b>Oklahoma</b> FKXR 1310 100
<b>KGFG</b> 1370 100
<b>KOMA</b> 1480 5000 C
<b>WKY</b> 900 1000 N
<b>Ponca City</b> WBBZ 1200 100
<b>Shawnee</b> KGFF 1420 100
<b>Tulsa</b> KTUL 1400 500 C
<b>KVOO</b> 1140 25000 N

<b>OREGON</b>
<b>Astoria</b> KAST 1370 100
<b>Corvallis</b> KOAC 550 1000
<b>Eugene</b> KORE 1420 100
<b>Klamath Falls</b> KFJL 1210 100
<b>Marshfield</b> KOOS 1390 250
<b>Medford</b> KMED 1310 100
<b>Portland</b> KALE 1300 500 C
<b>KBPS</b> 1420 100
<b>KEX</b> 1180 5000 N
<b>KFJR</b> 1300 500
<b>KGW</b> 620 1000 N
<b>KOIN</b> 940 1000 C
<b>KWJJ</b> 1040 500
<b>KXL</b> 1420 100
<b>Roseburg</b> KRNR 1500 100
<b>Salem</b> KSLM 1370 100
<b>PENNSYLVANIA</b>
<b>Allentown</b> WCBA 1440 500
<b>WSAN</b> 1440 500
<b>Altoona</b> WFBG 1310 100
<b>Easton</b> WEST 1200 100
<b>Erie</b> WLEU 1420 100
<b>Glenside</b> WIBG 970 100
<b>Greensburg</b> WHJB 620 250
<b>Grove City</b> WSAJ 1310 100
<b>Harrisburg</b> WHP 1430 500 C
<b>WKBQ</b> 1200 100
<b>Hazleton</b> WAZL 1420 100
<b>Johnstown</b> WJAC 1310 100
<b>Lancaster</b> WHAL 1500 100
<b>Philadelphia</b> KYW 1020 10000 R
<b>WCAU</b> 1170 50000 C
<b>WDAS</b> 1370 100
<b>WFIL</b> 560 1000 B
<b>WHAT</b> 1310 100
<b>WIP</b> 610 1000
<b>WPEN</b> 920 250
<b>WRAX</b> 920 250
<b>WTEL</b> 1310 100
<b>Pittsburgh</b> KDKA 980 50000 B
<b>KQV</b> 1380 500
<b>WCAE</b> 1220 1000 R
<b>WJAS</b> 1290 1000 C
<b>WWSW</b> 1500 100
<b>Reading</b> WEU 830 1000
<b>WRAW</b> 1310 100
<b>Scranton</b> WGBI 880 500
<b>WOAN</b> 880 250
<b>Sunbury</b> WKOK 1210 100

<b>Wilkes-Barre</b> WBAX 1210 100
<b>WBRE</b> 1310 100
<b>Williamsport</b> WRAK 1370 100
<b>York</b> WORK 1320 1000
<b>PUERTO RICO</b>
<b>Ponce</b> WPRP 1420 100
<b>San Juan</b> WKAQ 1240 1000
<b>WNEL</b> 1290 1000
<b>RHODE ISLAND</b>
<b>Newport</b> WNRI 1200 100
<b>Providence</b> WEAN 780 500 C
<b>WJAR</b> 890 500 R
<b>WPRO</b> 630 250
<b>SOUTH CAROLINA</b>
<b>Anderson</b> WAIM 1200 100
<b>Charleston</b> WCSC 1360 500
<b>Columbia</b> WIS 1010 50 N
<b>Greenville</b> WFBC 1300 1000
<b>Spartanburg</b> WSPA 920 1000
<b>SOUTH DAKOTA</b>
<b>Aberdeen</b> KABR 1420 100
<b>Brookings</b> KFDY 780 1000
<b>Huron</b> KGDY 1340 250
<b>Pierre</b> KGFX 630 200
<b>Rapid City</b> WCAT 1200 100
<b>Sioux Falls</b> KSQQ 1110 2500
<b>Vermillion</b> KUSD 890 500
<b>Watertown</b> KWTN 1210 100
<b>Yankton</b> WNAX 570 1000 C
<b>TENNESSEE</b>
<b>Bristol</b> WOPI 1500 100
<b>Chattanooga</b> WDOD 1280 1000 C
<b>Jackson</b> WTJS 1310 100
<b>Knoxville</b> WNOX 560 1000 C
<b>WROL</b> 1310 100
<b>Memphis</b> WHBQ 1370 100
<b>WMC</b> 780 1000 N
<b>WNBR</b> 1430 500
<b>WREC</b> 600 1000 C
<b>Nashville</b> WLAC 1470 5000 C
<b>WSM</b> 650 50000 N

<b>Springfield</b> WSIX 1210 100
<b>TEXAS</b>
<b>Amarillo</b> KGNC 1410 1000
<b>Austin</b> KNOV 1500 100
<b>Beaumont</b> KFDM 560 500
<b>Brady</b> KNEL 1500 100
<b>College Station</b> WTAW 1120 500
<b>Corpus Christi</b> KGFI 1500 100
<b>Dallas</b> KRLD 1040 10000 C
<b>WFAA</b> 800 50000 N
<b>WRR</b> 1280 500
<b>Dublin</b> KFPL 1310 100
<b>El Paso</b> KTSM 1310 100
<b>WDAH</b> 1310 100
<b>Fort Worth</b> KFJZ 1370 100
<b>KTAT</b> 1240 1000
<b>WBAP</b> 800 50000 N
<b>Galveston</b> KLUF 1370 100
<b>Houston</b> KPRC 920 1000 N
<b>KTRH</b> 1290 1000 C
<b>KXYZ</b> 1440 1000
<b>Longview</b> KFRO 1370 100
<b>Lubbock</b> KFYO 1310 100
<b>Midland</b> KRLH 1420 100
<b>Palestine</b> KNET 1420 100
<b>Pampa</b> KPDN 1310 100
<b>Pecos</b> KIUN 1420 100
<b>Port Arthur</b> KPAC 1260 500
<b>San Angelo</b> KGKL 1370 100
<b>San Antonio</b> KABC 1420 100
<b>KMAC</b> 1370 100
<b>KONO</b> 1370 100
<b>KTSA</b> 550 1000 C
<b>WOAI</b> 1190 50000 N
<b>Tyler</b> KGKB 1500 100
<b>Waco</b> WACO 1420 100 C
<b>Weslaco</b> KRGV 1260 500
<b>Wichita Falls</b> KGKO 570 250 C
<b>UTAH</b>
<b>Qgden</b> KLO 1400 500
<b>Salt Lake City</b> KDYL 1290 1000 N
<b>KSL</b> 1130 50000 C
<b>VERMONT</b>
<b>Burlington</b> WCAX 1200 100

# NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p><b>Rutland</b> WSYB 1500 100 St. Albans WQDM 1370 100 Springfield WNBX 1260 100 Waterbury WDEV 550 500</p> <hr/> <p style="text-align: center;"><b>VIRGINIA</b></p> <hr/> <p><b>Arlington</b> 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</p> <hr/> <p style="text-align: center;"><b>WASHINGTON</b></p> <hr/> <p><b>Aberdeen</b> 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 KPQ 1500 100 Yakima KIT 1310 100</p> <hr/> <p style="text-align: center;"><b>WEST VIRGINIA</b></p> <hr/> <p><b>Bluefield</b> WHIS 1410 250 Charleston WCHS 580 500 Fairmont WMMN 890 500 Huntington WSAZ 1190 1000</p>	<p><b>Parkersburg</b> WPAR 1420 100 Wheeling WWVA 1160 5000 C</p> <hr/> <p style="text-align: center;"><b>WISCONSIN</b></p> <hr/> <p><b>Eau Claire</b> WTAQ 1330 1000 Fond du Lac KFIZ 1420 100 Green Bay WHBY 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</p> <hr/> <p style="text-align: center;"><b>WYOMING</b></p> <hr/> <p><b>Casper</b> KDPN 1440 500 Sheridan KWYO 1370 100</p> <hr/> <p style="text-align: center;"><b>CANADA</b></p> <hr/> <p style="text-align: center;"><b>ALBERTA</b></p> <hr/> <p><b>Calgary</b> CFAC 930 100 F CFCN 1030 10000 CJGJ 690 100 F Edmonton CFRN 1260 100 F CJCA 730 1000 F CKUA 580 500 Lethridge CJOC 1230 100 F</p> <hr/> <p style="text-align: center;"><b>BRITISH COLUMBIA</b></p> <hr/> <p><b>Chilliwack</b> 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 CKFC 1410 50 CKMO 1410 100 F CKWX 1010 100 F CRCV 1100 500 F</p>	<p><b>Victoria</b> CFCT 1450 75</p> <hr/> <p style="text-align: center;"><b>MANITOBA</b></p> <hr/> <p><b>Brandon</b> CKX 1120 100 F Winnipeg CJRC 1390 100 F CKY 960 15000 F</p> <hr/> <p style="text-align: center;"><b>NEW BRUNSWICK</b></p> <hr/> <p><b>Fredericton</b> CFNB 550 500 F Moncton CKCW 1370 100 F St. John CHSJ 1120 500 F</p> <hr/> <p style="text-align: center;"><b>N. W. TERRITORY</b></p> <hr/> <p><b>Aklavik</b> CJCU 1210 50</p> <hr/> <p style="text-align: center;"><b>NOVA SCOTIA</b></p> <hr/> <p><b>Glace Bay</b> VAS 685 2000 Halifax CHNS 930 1000 F Sydney CJCB 1240 1000 F Wolfville CKIC 1010 50 Yarmouth CJLS 1310 100</p> <hr/> <p style="text-align: center;"><b>ONTARIO</b></p> <hr/> <p><b>Brantford</b> CKPC 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 CKCO 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 CKCL 580 100 F CRCT 840 5000 N Waterloo CKCR 1510 100</p>	<p><b>Windsor</b> CKLW 1030 5000 CRCW 600 500 F Wingham CKNX 1200 50</p> <hr/> <p style="text-align: center;"><b>PRINCE EDWARD ISLAND</b></p> <hr/> <p><b>Charlottetown</b> CFCY 630 1000 F CHCK 1310 50 Summerside CHGS 1450 50 F</p> <hr/> <p style="text-align: center;"><b>QUEBEC</b></p> <hr/> <p><b>Chicoutimi</b> CRCS 950 100 F Hull CKCH 1210 100 F Montmagny VE9K 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</p> <hr/> <p style="text-align: center;"><b>SASKATCHEWAN</b></p> <hr/> <p><b>Moose Jaw</b> CHAB 1200 100 F CJRM 540 1000 F Prince Albert CKBI 1210 100 F Regina CHWC 1010 500 F CKK 1010 500 F Saskatoon CFQC 840 1000 F Yorkton CJGX 630 1000 F</p> <hr/> <p style="text-align: center;"><b>NEWFOUNDLAND</b></p> <hr/> <p><b>St. John's</b> VOAC 1065 40 VOAS 940 100 VOGY 840 400 VONF 1195 500 VOWR 681 500</p> <hr/> <p style="text-align: center;"><b>MIQUELON</b></p> <hr/> <p><b>St. Pierre</b> FQN 609 250</p> <hr/> <p style="text-align: center;"><b>CENTRAL AMERICA</b></p> <hr/> <p style="text-align: center;"><b>COSTA RICA</b></p> <hr/> <p><b>Cartago</b> TIFS 1441 7.5 TIGA 1014 30 San Jose TIEP 850 500 TIFA 1050 75 TIGH 1000 500 TIRH 930 50</p>
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# NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p><b>GUATEMALA</b></p> <p>Guatemala City                      TGW 1210 10000                      TGX 1400 250</p> <p><b>HONDURAS</b></p> <p>Tegucigalpa                      HRN 1270 100</p> <p><b>NICARAGUA</b></p> <p>Managua                      YNLF 1275 20                      YNOP 1230 100                      YNVA 950 30</p> <p><b>PANAMA</b></p> <p>Colon                      HP50 1440 25</p> <p><b>EL SALVADOR</b></p> <p>San Salvador                      RDN 680 500</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><b>DURANGO</b></p> <p>Durango                      XEE 1210 50</p> <p><b>GUANJUATO</b></p> <p>Guanajuato                      XEAZ 1420 7                      Leon                      XEKL 1240 500</p> <p><b>JALISCO</b></p> <p>Guadalajara                      XEA 1060 500                      XED 1155 2500</p> <p><b>LOWER CALIFORNIA</b></p> <p>Coronado Isl.                      XEMZ 820 ....                      Ensenada                      XEG 1270 200                      Mexicall                      XEAA 920 200                      XEAO 560 250                      Tijuana                      XEAQ 1090 ....                      XEC 1160 30                      XEFL 1150 500                      XEMO 860 5000                      XEMZ 1210 250                      XEOK 760 250                      XESL 1160 ....</p> <p><b>MICHOACAN</b></p> <p>Morelia                      XEI 1370 125</p> <p><b>NUEVO LEON</b></p> <p>Monterrey                      XEFB 1420 100                      XEFJ 1230 100                      XEH 1150 250                      XET 690 500                      XEX 1310 125</p> <p><b>OAXACA</b></p> <p>Oaxaca                      XEAJ 1310 15</p> <p><b>PUEBLA</b></p> <p>Puebla                      XETH 1210 100</p>	<p><b>SAN LUIS POTOSI</b></p> <p>San Luis Potosi                      XEZZ 1370 100</p> <p><b>SONORA</b></p> <p>Hermosillo                      XEBH 1000 500                      Nogales                      XEAF 990 500</p> <p><b>TAMAULIPAS</b></p> <p>Matamoros                      XEAM 750 7.5                      Nuevo Laredo                      XEFE 850 250                      XENT 910 65000                      Reynosa                      XEAW 960 50000                      Tampico                      XEFW 1310 250                      XEMA 1080 50                      XES 990 250</p> <p><b>VERACRUZ</b></p> <p>Jalapa                      XFB 1270 250                      XFD 1340 350                      Veracruz                      XETF 1220 12                      XEU 1010 250</p> <p><b>YUCATAN</b></p> <p>Merida                      XEFC 560 100                      XEY 1000 10                      XEZ 630 500</p>	<p><b>Cruces</b>                      CMHK 1330 2</p> <p><b>Havana</b>                      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                      CMCO 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                      CMOX 1320 250                      CMQ 880 500                      CMW 600 1000                      CMX 920 650</p> <p><b>Holguin</b>                      CMKF 1460 50</p> <p><b>Manzanillo</b>                      CMKM 1120 200</p> <p><b>Matanzas</b>                      CMGC 1400 100                      CMGF 1120 100                      CMGI 1420 50</p> <p><b>Sagua la Grande</b>                      CMHA 1070 50</p> <p><b>Sancti Spiritus</b>                      CMHB 1240 50</p> <p><b>Santa Clara</b>                      CMHI 1210 150</p> <p><b>Santiago</b>                      CMKC 1250 150                      CMKD 1050 250                      CMKR 1400 100                      CMKV 1190 50</p> <p><b>DOMINICAN REPUBLIC</b></p> <p><b>San Pedro de Macoris</b>                      HHH 1395 15</p> <p><b>Santo Domingo</b>                      HJJ 1195 15                      HIX 800 700                      HIZ 1300 10</p> <p><b>HAITI</b></p> <p><b>Port-au-Prince</b>                      HHK 920 1000</p>
<p><b>MEXICO</b></p> <p><b>AGUASCALIENTES</b></p> <p>Aguascalientes                      XFA 1310 5                      XFC 810 350</p> <p><b>CHIHUAHUA</b></p> <p>Chihuahua                      XEPI 1440 250                      Juarez                      XEFV 1210 100                      XEJ 1020 1000</p> <p><b>COAHUILA</b></p> <p>Piedras Negras                      XELO 1110 10000                      XEPN 590 50000                      Saltillo                      XEAS 1160 100                      XEOX 640 500                      Torreon                      XETB 1310 125                      Villa Acuna                      XERA 840 250000</p> <p><b>D. F.</b></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>			

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

<b>CFAC</b> 930 Calgary, Alta.	100	<b>CJLS</b> 1310 Yarmouth, N. S.	100	<b>CMBS</b> 770 Havana, Cuba	150
<b>CFCF</b> 600 Montreal, Que.	400	<b>CJOC</b> 1230 Lethbridge, Alta.	100	<b>CMBX</b> 1380 Havana, Cuba	500
<b>CFCH</b> 930 North Bay, Ont.	100	<b>CJOR</b> 600 Vancouver, B. C.	500	<b>CMBY</b> 640 Havana, Cuba	150
<b>CFCN</b> 1030 Calgary, Alta.	10000	<b>CJRC</b> 1390 Winnipeg, Man.	100	<b>CMBZ</b> 1000 Havana, Cuba	250
<b>CFCO</b> 630 Chatham, Ont.	100	<b>CJRM</b> 540 Moose Jaw, Sask.	1000	<b>CMCA</b> 1350 Havana, Cuba	250
<b>CFCT</b> 1450 Victoria, B. C.	75	<b>CKAC</b> 730 Montreal, Que.	5000	<b>CMCB</b> 1230 Havana, Cuba	150
<b>CFCY</b> 630 Charlottetown, P.E.I.	1000	<b>CKBI</b> 1210 Prince Albert, Sask.	100	<b>CMCD</b> 960 Havana, Cuba	250
<b>CFJC</b> 880 Kamloops, B. C.	100	<b>CKCD</b> 1010 Vancouver, B. C.	100	<b>CMCF</b> 815 Havana, Cuba	250
<b>CFLC</b> 930 Prescott, Ont.	100	<b>CKCH</b> 1210 Hull, Que.	100	<b>CMCG</b> 1255 Havana, Cuba	250
<b>CFNB</b> 550 Fredericton, N. B.	500	<b>CKCK</b> 1010 Regina, Sask.	500	<b>CMCJ</b> 1200 Havana, Cuba	350
<b>CFPL</b> 730 London, Ont.	100	<b>CKCL</b> 580 Toronto, Ont.	100	<b>CMCN</b> 1500 Havana, Cuba	150
<b>CFPR</b> 580 Prince Rupert, B. C.	50	<b>CKCO</b> 1010 Ottawa, Ont.	100	<b>CMCO</b> 1110 Havana, Cuba	250
<b>CFQC</b> 840 Saskatoon, Sask.	1000	<b>CKCR</b> 1510 Waterloo, Ont.	100	<b>CMCQ</b> 680 Havana, Cuba	250
<b>CFRB</b> 690 Toronto, Ont.	10000	<b>CKCV</b> 1310 Quebec, Que.	180	<b>CMCR</b> 1410 Havana, Cuba	150
<b>CFRC</b> 1510 Kingston, Ont.	100	<b>CKCW</b> 1370 Moncton, N. B.	100	<b>CMCU</b> 1280 Havana, Cuba	150
<b>CFRN</b> 1260 Edmonton, Alta.	100	<b>CKFC</b> 1410 Vancouver, B. C.	50	<b>CMCW</b> 750 Havana, Cuba	150
<b>CHAB</b> 1200 Moose Jaw, Sask.	100	<b>CKGB</b> 1420 Timmins, Ont.	100	<b>CMCX</b> 660 Havana, Cuba	150
<b>CHCK</b> 1310 Charlottetown, P.E.I.	50	<b>CKIC</b> 1010 Wolfville, N. S.	50	<b>CMCY</b> 1030 Havana, Cuba	1000
<b>CHGS</b> 1450 Summerside, P.E.I.	50	<b>CKLW</b> 1030 Windsor, Ont.	5000	<b>CMGC</b> 1400 Matanzas, Cuba	100
<b>CHLP</b> 1120 Montreal, Que.	100	<b>CKMC</b> 1210 Cobalt, Ont.	50	<b>CMGE</b> 1370 Cardenas, Cuba	50
<b>CHML</b> 1010 Hamilton, Ont.	100	<b>CKMO</b> 1410 Vancouver, B. C.	100	<b>CMGF</b> 1120 Matanzas, Cuba	100
<b>CHNC</b> 1410 New Carlisle, Que.	500	<b>CKNX</b> 1200 Wingham, Ont.	50	<b>CMGI</b> 1420 Matanzas, Cuba	50
<b>CHNS</b> 930 Halifax, N. S.	1000	<b>CKOC</b> 1120 Hamilton, Ont.	500	<b>CMHA</b> 1070 Sagua la Grande, Cu.	50
<b>CHRC</b> 580 Quebec, Que.	100	<b>CKOV</b> 630 Kelowna, B. C.	100	<b>CMHB</b> 1240 Sancti Spiritus, Cuba	50
<b>CHSJ</b> 1120 St. John, N. B.	500	<b>CKPC</b> 930 Brantford, Ont.	100	<b>CMHD</b> 1270 Caibarien, Cuba	250
<b>CHWC</b> 1010 Regina, Sask.	500	<b>CKPR</b> 930 Fort William, Ont.	100	<b>CMHI</b> 1210 Santa Clara, Cuba	150
<b>CHWK</b> 780 Chilliwack, B. C.	100	<b>CKSO</b> 780 Sudbury, Ont.	1000	<b>CMHJ</b> 1160 Cienfuegos, Cuba	100
<b>CJAT</b> 910 Trill, B. C.	250	<b>CKTB</b> 1200 St. Catharines, Ont.	100	<b>CMHK</b> 1330 Cruces, Cuba	250
<b>CJCA</b> 730 Edmonton, Alta.	1000	<b>CKUA</b> 580 Edmonton, Alta.	500	<b>CMHW</b> 810 Cienfuegos, Cuba	100
<b>CJCB</b> 1240 Sydney, N. S.	1000	<b>CKWX</b> 1010 Vancouver, B. C.	100	<b>CMHX</b> 760 Cienfuegos, Cuba	500
<b>CJCJ</b> 690 Calgary, Alta.	100	<b>CKX</b> 1120 Brandon, Man.	100	<b>CMJA</b> 1010 Camaguey, Cuba	300
<b>CJCS</b> 1210 Stratford, Ont.	50	<b>CKY</b> 960 Winnipeg, Man.	15000	<b>CMJC</b> 1390 Camaguey, Cuba	150
<b>CJCU</b> 1210 Aklavik, N. W. T.	50	<b>CMBC</b> 940 Havana, Cuba	500	<b>CMJE</b> 1220 Camaguey, Cuba	50
<b>CJGX</b> 630 Yorktown, Sask.	1000	<b>CMBD</b> 1170 Havana, Cuba	150	<b>CMJF</b> 1150 Camaguey, Cuba	200
<b>CJIC</b> 1500 S. Ste. Marie, Ont.	100	<b>CMBG</b> 1140 Havana, Cuba	200	<b>CMJH</b> 1360 Ciego de Avila, Cuba	100
<b>CJKL</b> 1310 Kirkland Lake, Ont.	100	<b>CMBN</b> 880 Havana, Cuba	150	<b>CMJI</b> 1130 Ciego de Avila, Cuba	50

# NORTH AMERICAN B. C. STATIONS BY CALLS

<b>CMJK</b> 780 Camaguey, Cuba	250	<b>KALE</b> 1300 Portland, Ore.	500	<b>KFJM</b> 1370 Grand Forks, N. D.	100
<b>CMJL</b> 1340 Camaguey, Cuba	100	<b>KARK</b> 890 Little Rock, Ark.	250	<b>KFJR</b> 1300 Portland, Ore.	500
<b>CMJO</b> 1180 Ciego de Avila, Cuba	50	<b>KASA</b> 1210 Elk City, Okla.	100	<b>KFJZ</b> 1370 Fort Worth, Texas	100
<b>CMJP</b> 1430 Camaguey, Cuba	100	<b>KAST</b> 1370 Astoria, Ore.	100	<b>KFKA</b> 880 Greeley, Colo.	500
<b>CMK</b> 1060 Havana, Cuba	250	<b>KBPS</b> 1120 Portland, Ore.	100	<b>KFKU</b> 1220 Lawrence, Kans.	1000
<b>CMKC</b> 1250 Santiago, Cuba	150	<b>KBTM</b> 1200 Jonesboro, Ark.	100	<b>KFNF</b> 890 Shenandoah, Iowa	500
<b>CMKD</b> 1050 Santiago, Cuba	250	<b>KCMC</b> 1420 Texarkana, Ark.	100	<b>KFOR</b> 1210 Lincoln, Neb.	100
<b>CMKF</b> 1460 Holguin, Cuba	50	<b>KCRC</b> 1360 Enid, Okla.	250	<b>KFOX</b> 1250 Long Beach, Calif.	1000
<b>CMKM</b> 1120 Manzanillo, Cuba	200	<b>KCRJ</b> 1320 Jerome, Ariz.	100	<b>KFPL</b> 1310 Dublin, Texas	100
<b>CMKR</b> 1400 Santiago, Cuba	100	<b>KDB</b> 1500 Santa Barbara, Calif.	100	<b>KFPW</b> 1210 Fort Smith, Ark.	100
<b>CMKV</b> 1190 Santiago, Cuba	50	<b>KDFN</b> 1440 Casper, Wyo.	500	<b>KFPY</b> 890 Spokane, Wash.	1000
<b>CMOA</b> 790 Havana, Cuba	150	<b>KDKA</b> 980 Pittsburgh, Pa.	50000	<b>KFQD</b> 780 Anchorage, Alaska	250
<b>CMOK</b> 1470 Havana, Cuba	150	<b>KDLR</b> 1210 Devils Lake, N. D.	100	<b>KFRK</b> 610 San Francisco, Calif.	1000
<b>CMOX</b> 1320 Havana, Cuba	250	<b>KDON</b> 1210 Del Monte, Calif.	100	<b>KFRO</b> 1370 Longview, Texas	100
<b>CMQ</b> 880 Havana, Cuba	500	<b>KDYL</b> 1290 Salt Lake City, Utah	1000	<b>KFRU</b> 630 Columbia, Mo.	500
<b>CMW</b> 600 Havana, Cuba	1000	<b>KECA</b> 1430 Los Angeles, Calif.	1000	<b>KFSO</b> 600 San Diego, Calif.	1000
<b>CMX</b> 920 Havana, Cuba	650	<b>KELD</b> 1370 El Dorado, Ark.	100	<b>KFSG</b> 1120 Los Angeles, Calif.	500
<b>CRCK</b> 1050 Quebec, Que.	1000	<b>KELW</b> 780 Burbank, Calif.	500	<b>KFUO</b> 550 St. Louis, Mo.	500
<b>CRCM</b> 910 Montreal, Que.	5000	<b>KERN</b> 1370 Bakersfield, Calif.	100	<b>KFVD</b> 1000 Los Angeles, Calif.	250
<b>CRCO</b> 880 Ottawa, Ont.	1000	<b>KEX</b> 1180 Portland, Ore.	5000	<b>KFVS</b> 1210 Cape Girardeau, Mo.	100
<b>CRCS</b> 950 Chateaufort, Que.	100	<b>KFAB</b> 770 Lincoln, Neb.	10000	<b>KFWB</b> 950 Hollywood, Calif.	1000
<b>CRCT</b> 840 Toronto, Ont.	5000	<b>KFAC</b> 1300 Los Angeles, Calif.	1000	<b>KFXD</b> 1200 Nampa, Idaho	100
<b>CRCV</b> 1100 Vancouver, B. C.	500	<b>KFBB</b> 1280 Great Falls, Mont.	1000	<b>KFXJ</b> 1200 Grand Jct., Colo.	100
<b>CRCW</b> 600 Windsor, Ont.	500	<b>KFBI</b> 1050 Abilene, Kans.	5000	<b>KFXM</b> 1210 San Bernardino, Calif.	100
<b>FQN</b> 609 St. Pierre, Miq.	250	<b>KFBK</b> 1490 Sacramento, Calif.	5000	<b>KFXR</b> 1310 Oklahoma City, Okla.	100
<b>HHK</b> 920 Port-au-Prince, Haiti	1000	<b>KFDM</b> 560 Beaumont, Texas	500	<b>KFYO</b> 1310 Lubbock, Texas	100
<b>HHH</b> 1395 San Pedro de M., D. R.	15	<b>KFDY</b> 780 Brookings, S. D.	1000	<b>KFYR</b> 550 Bismarck, N. D.	1000
<b>HJJ</b> 1195 Santo Domingo, D. R.	15	<b>KFEL</b> 920 Denver, Colo.	500	<b>KGA</b> 1470 Spokane, Wash.	5000
<b>HIX</b> 800 Santo Domingo, D. R.	700	<b>KFEQ</b> 680 St. Joseph, Mo.	2500	<b>KGAR</b> 1370 Tucson, Ariz.	100
<b>HIZ</b> 1300 Santo Domingo, D. R.	10	<b>KFGQ</b> 1370 Boone, Iowa	100	<b>KGB</b> 1330 San Diego, Calif.	1000
<b>HP50</b> 1440 Colon, Panama	25	<b>KFH</b> 1300 Wichita, Kans.	1000	<b>KGBU</b> 900 Ketchikan, Alaska	500
<b>HRN</b> 1270 Tegucigalpa, Hond.	100	<b>KFI</b> 640 Los Angeles, Calif.	50000	<b>KGBX</b> 1230 Springfield, Mo.	500
<b>KABC</b> 1420 San Antonio, Texas	100	<b>KFIO</b> 1120 Spokane, Wash.	100	<b>KGBZ</b> 930 York, Neb.	1000
<b>KABR</b> 1420 Aberdeen, S. Dak.	100	<b>KFIZ</b> 1420 Fond du Lac, Wis.	100	<b>KGCA</b> 1270 Decorah, Iowa	100
<b>KADA</b> 1209 Ada, Okla.	100	<b>KFJB</b> 1200 Marshalltown, Iowa	100	<b>KGCU</b> 1240 Mandan, N. D.	250
<b>KALB</b> 1420 Alexandria, La.	100	<b>KFJI</b> 1210 Klamath Falls, Ore.	100	<b>KGCCX</b> 1310 Wolf Point, Mont.	100



# NORTH AMERICAN B. C. STATIONS BY CALLS

<b>KGDE</b> 1200 100 Fergus Falls, Minn.	<b>KHJ</b> 900 1000 Los Angeles, Calif.	<b>KMTR</b> 570 1000 Hollywood, Calif.
<b>KGDM</b> 1100 1008 Stockton, Calif.	<b>KHQ</b> 598 1000 Spokane, Wash.	<b>KNEL</b> 1500 100 Brady, Texas
<b>KGDY</b> 1340 250 Huron, S. D.	<b>KHSL</b> 950 250 Chico, Calif.	<b>KNET</b> 1420 100 Palestine, Texas
<b>KGEK</b> 1200 100 Sterling, Colo.	<b>KICA</b> 1370 100 Clovis, N. M.	<b>KNOW</b> 1500 100 Austin, Texas
<b>KGER</b> 1360 1000 Long Beach, Calif.	<b>KID</b> 1320 250 Idaho Falls, Idaho	<b>KNX</b> 1050 50000 Hollywood, Calif.
<b>KGEZ</b> 1310 100 Kallispell, Mont.	<b>KIDO</b> 1350 1000 Boise, Idaho	<b>KOA</b> 830 50000 Denver, Colo.
<b>KGFF</b> 1420 108 Shawnee, Okla.	<b>KIDW</b> 1420 100 Lamar, Colo.	<b>KOAC</b> 550 1000 Corvallis, Ore.
<b>KGFG</b> 1370 100 Oklahoma City, Okla.	<b>KIEM</b> 1450 500 Eureka, Calif.	<b>KOB</b> 1180 10000 Albuquerque, N. M.
<b>KGFI</b> 1500 100 Corpus Christi, Texas	<b>KIEV</b> 850 100 Glendale, Calif.	<b>KOH</b> 1380 500 Reno, Nev.
<b>KGFI</b> 1200 100 Los Angeles, Calif.	<b>KINY</b> 1310 100 Juneau, Alaska	<b>KOIL</b> 1260 1000 Council Bluffs, Iowa
<b>KGFK</b> 1500 100 Moorhead, Minn.	<b>KIRO</b> 710 500 Seattle, Wash.	<b>KOIN</b> 940 1000 Portland, Ore.
<b>KGFL</b> 1370 100 Roswell, N. M.	<b>KIT</b> 1310 100 Yakima, Wash.	<b>KOL</b> 1270 1000 Seattle, Wash.
<b>KGFW</b> 1310 100 Kearney, Neb.	<b>KIUJ</b> 1310 100 Santa Fe, N. Mex.	<b>KOMA</b> 1480 5000 Oklahoma City, Okla.
<b>KGFX</b> 630 200 Pierre, S. D.	<b>KIUL</b> 1210 100 Garden City, Kans.	<b>KOMO</b> 920 1000 Seattle, Wash.
<b>KGGC</b> 1420 100 San Francisco, Calif.	<b>KIUN</b> 1420 100 Pecos, Texas	<b>KONO</b> 1370 100 San Antonio, Texas
<b>KGGF</b> 1010 1000 Coffeyville, Kans.	<b>KIUP</b> 1378 100 Durango, Colo.	<b>KOOS</b> 1390 250 Marshfield, Ore.
<b>KGGM</b> 1230 250 Albuquerque, N. M.	<b>KJB3</b> 1070 500 San Francisco, Calif.	<b>KORE</b> 1420 100 Eugene, Ore.
<b>KGHF</b> 1320 500 Pueblo, Colo.	<b>KJR</b> 970 5000 Seattle, Wash.	<b>KOTN</b> 1500 100 Pine Bluffs, Ark.
<b>KGHI</b> 1200 100 Little Rock, Ark.	<b>KLCN</b> 1290 100 Blytheville, Ark.	<b>KOY</b> 1390 500 Phoenix, Ariz.
<b>KGHL</b> 780 1000 Billings, Mont.	<b>KLO</b> 1480 500 Ogden, Utah	<b>KPAC</b> 1260 500 Port Arthur, Texas
<b>KGIR</b> 1340 1000 Butte, Mont.	<b>KLPM</b> 1240 250 Minot, N. D.	<b>KPDN</b> 1310 100 Pampa, Texas
<b>KGIW</b> 1420 100 Alamosa, Colo.	<b>KLRA</b> 1390 1000 Little Rock, Ark.	<b>KPLC</b> 1500 100 Lake Charles, La.
<b>KGKB</b> 1500 100 Tyler, Texas	<b>KLS</b> 1440 250 Oakland, Calif.	<b>KPO</b> 680 50000 San Francisco, Calif.
<b>KGKL</b> 1370 100 San Angelo, Texas	<b>KLUF</b> 1370 100 Galveston, Texas	<b>KPOF</b> 880 500 Denver, Colo.
<b>KGKO</b> 570 250 Wichita Falls, Texas	<b>KLX</b> 880 1800 Oakland, Calif.	<b>KPPC</b> 1210 50 Pasadena, Calif.
<b>KGKY</b> 1500 100 Scottsbluff, Neb.	<b>KLZ</b> 560 1000 Denver, Colo.	<b>KPQ</b> 1500 100 Wenatchee, Wash.
<b>KGMB</b> 1320 1000 Honolulu, T. H.	<b>KMA</b> 930 1000 Shenandoah, Iowa	<b>KPRC</b> 920 1000 Houston, Texas
<b>KGNC</b> 1410 1000 Amarillo, Texas	<b>KMAC</b> 1370 100 San Antonio, Texas	<b>KQV</b> 1380 500 Pittsburgh, Pa.
<b>KGNF</b> 1430 1000 North Platte, Neb.	<b>KMBC</b> 950 1000 Kansas City, Mo.	<b>KQW</b> 1010 1000 San Jose, Calif.
<b>KGNO</b> 1340 250 Dodge City, Kans.	<b>KMED</b> 1310 100 Medford, Ore.	<b>KRE</b> 1370 100 Berkeley, Calif.
<b>KGO</b> 790 750 San Francisco, Calif.	<b>KMJ</b> 580 1000 Fresno, Calif.	<b>KREG</b> 1500 100 Santa Ana, Calif.
<b>KGU</b> 750 2500 Honolulu, T. H.	<b>KMLB</b> 1200 100 Monroe, La.	<b>KRGV</b> 1260 500 Westaco, Texas
<b>KGVO</b> 1260 1000 Missoula, Mont.	<b>KMMJ</b> 740 1008 Clay Center, Neb.	<b>KRKD</b> 1120 500 Los Angeles, Calif.
<b>KGW</b> 620 1000 Portland, Ore.	<b>KMO</b> 1330 250 Tacoma, Wash.	<b>KRKO</b> 1370 50 Everett, Wash.
<b>KGY</b> 1210 100 Olympia, Wash.	<b>KMOX</b> 1090 50000 St. Louis, Mo.	<b>KRLC</b> 1420 100 Lewiston, Idaho
<b>KHBC</b> 1420 100 Hilo, T. H.	<b>KMPC</b> 710 500 Beverly Hills, Calif.	<b>KRLD</b> 1040 10000 Dallas, Texas

# NORTH AMERICAN B. C. STATIONS BY CALLS

<b>KRLH</b> 1420 Midland, Texas	100	<b>KVOA</b> 1260 Tucson, Ariz.	500	<b>VE9EK</b> 1185 Montmagny, Que.	10
<b>KRMD</b> 1310 Shreveport, La.	100	<b>KVOD</b> 920 Denver, Colo.	500	<b>VOAC</b> 1065 St. John's, Nfld.	40
<b>KRRR</b> 1500 Roseburg, Ore.	100	<b>KVOL</b> 1310 Lafayette, La.	100	<b>VOAS</b> 940 St. John's, Nfld.	100
<b>KRNT</b> 1320 Des Moines, Iowa	500	<b>KVOO</b> 1140 Tulsa, Okla.	29000	<b>VOGY</b> 840 St. John's, Nfld.	400
<b>KROC</b> 1310 Rochester, Minn.	100	<b>KVOR</b> 1270 Colorado Spgs., Colo.	1000	<b>VONF</b> 1195 St. John's, Nfld.	500
<b>KROW</b> 930 Oakland, Calif.	1000	<b>KVOS</b> 1200 Bellingham, Wash.	100	<b>VOWR</b> 681 St. John's, Nfld.	500
<b>KRSC</b> 1120 Seattle, Wash.	100	<b>KVSO</b> 1210 Ardmore, Okla.	100	<b>WAAB</b> 1410 Boston, Mass.	500
<b>KSAC</b> 580 Manhattan, Kans.	500	<b>KWBG</b> 1420 Hutchinson, Kans.	100	<b>WAAF</b> 920 Chicago, Ill.	1000
<b>KSCJ</b> 1330 Sioux City, Iowa	1000	<b>KWG</b> 1200 Stockton, Calif.	100	<b>WAAT</b> 940 Jersey City, N. J.	500
<b>KSD</b> 550 St. Louis, Mo.	1000	<b>KWJJ</b> 1040 Portland, Ore.	500	<b>WAAW</b> 660 Omaha, Neb.	500
<b>KSEI</b> 900 Pocatello, Idaho	250	<b>KWK</b> 1350 St. Louis, Mo.	1000	<b>WABC</b> 860 New York, N. Y.	50000
<b>KSFO</b> 560 San Francisco, Calif.	1000	<b>KWKC</b> 1370 Kansas City, Mo.	100	<b>WABI</b> 1200 Bangor, Maine	100
<b>KSL</b> 1130 Salt Lake City, Utah	50000	<b>KWKH</b> 1100 Shreveport, La.	18000	<b>WABY</b> 1370 Albany, N. Y.	100
<b>KSLM</b> 1370 Salem, Ore.	100	<b>KWLC</b> 1270 Decorah, Iowa	100	<b>WACO</b> 1420 Waco, Texas	100
<b>KSO</b> 1430 Des Moines, Iowa	500	<b>KWSC</b> 1220 Pullman, Wash.	1000	<b>WADC</b> 1320 Akron, Ohio.	1000
<b>KS00</b> 1110 Sioux Falls, S. D.	2500	<b>KWTN</b> 1210 Watertown, S. D.	100	<b>WAGF</b> 1370 Dothan, Ala.	250
<b>KSTP</b> 1460 St. Paul, Minn.	25000	<b>KWTO</b> 560 Springfield, Mo.	5000	<b>WAGM</b> 1420 Presque Isle, Me.	100
<b>KSUN</b> 1200 Lowell, Ariz.	100	<b>KWYO</b> 1370 Sheridan, Wyo.	100	<b>WAIM</b> 1280 Anderson, S. C.	100
<b>KTAR</b> 620 Phoenix, Ariz.	1000	<b>KXA</b> 760 Seattle, Wash.	250	<b>WAIU</b> 640 Columbus, Ohio	500
<b>KTAT</b> 1240 Fort Worth, Texas	1000	<b>KXL</b> 1420 Portland, Ore.	100	<b>WALA</b> 1380 Mobile, Ala.	500
<b>KTBS</b> 1450 Shreveport, La.	1000	<b>KXO</b> 1500 El Centro, Calif.	100	<b>WALR</b> 1210 Zanesville, Ohio	100
<b>KTFI</b> 1240 Twin Falls, Idaho	1000	<b>KXRO</b> 1310 Aberdeen, Wash.	100	<b>WAML</b> 1310 Laurel, Miss.	100
<b>KTHS</b> 1060 Hot Springs, Ark.	10000	<b>KXYZ</b> 1440 Houston, Texas	1000	<b>WAPI</b> 1140 Birmingham, Ala.	5000
<b>KTM</b> 780 Los Angeles, Calif.	500	<b>KYA</b> 1230 San Francisco, Calif.	1000	<b>WARD</b> 1400 Brooklyn, N. Y.	500
<b>KTRB</b> 740 Modesto, Calif.	250	<b>KYW</b> 1020 Philadelphia, Pa.	10000	<b>WASH</b> 1270 Grand Rapids, Mich.	500
<b>KTRH</b> 1290 Houston, Texas	1000	<b>NAA</b> 690 Arlington, Va.	1800	<b>WATL</b> 1370 Atlanta, Ga.	100
<b>KTSA</b> 550 San Antonio, Texas	1000	<b>RDN</b> 680 San Salvador, E. S.	500	<b>WATR</b> 1190 Waterbury, Conn.	100
<b>KTSM</b> 1310 El Paso, Texas	100	<b>TGW</b> 1210 Guatemala, Gua.	10000	<b>WAVE</b> 940 Louisville, Ky.	1000
<b>KTUL</b> 1400 Tulsa, Okla.	500	<b>TGX</b> 1400 Guatemala City	250	<b>WAWZ</b> 1350 Zarephath, N. J.	500
<b>KTW</b> 1220 Seattle, Wash.	1000	<b>TIEP</b> 850 San Jose, C. R.	500	<b>WAZL</b> 1420 Hazleton, Pa.	100
<b>KUJ</b> 1370 Walla Walla, Wash.	100	<b>TIFA</b> 1050 San Jose, C. R.	75	<b>WBAA</b> 890 West Lafayette, Ind.	1000
<b>KUMA</b> 1420 Yuma, Ariz.	100	<b>TIFS</b> 1441 Cartago, C. R.	7.5	<b>WBAL</b> 1060 Baltimore, Md.	10000
<b>KUOA</b> 1260 Fayetteville, Ark.	1000	<b>TIGA</b> 1014 Cartago, C. R.	30	<b>WBAP</b> 800 Fort Worth, Texas	50000
<b>KUSD</b> 890 Vermillion, S. D.	500	<b>TIGH</b> 1000 San Jose, C. R.	500	<b>WBAX</b> 1210 Wilkes-Barre, Pa.	100
<b>KVI</b> 570 Tacoma, Wash.	1000	<b>TIRH</b> 930 San Jose, C. R.	50	<b>WBBC</b> 1400 Brooklyn, N. Y.	500
<b>KVL</b> 1370 Seattle, Wash.	100	<b>VAS</b> 685 Glace Bay, N. S.	2000	<b>WBBL</b> 1210 Richmond, Va.	100

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WBBM</b> 770	50000	Chicago, Ill.	<b>WCFL</b> 970	5000	Chicago, Ill.	<b>WEDC</b> 1210	100	Chicago, Ill.
<b>WBBR</b> 1300	1000	Brooklyn, N. Y.	<b>WCBS</b> 580	500	Charleston, W. Va.	<b>WEED</b> 1420	100	Rocky Mount, N. C.
<b>WBBZ</b> 1200	100	Ponca City, Okla.	<b>WCHV</b> 1420	100	Charlottesville, Va.	<b>WEEL</b> 590	1000	Boston, Mass.
<b>WBCM</b> 1410	500	Bay City, Mich.	<b>WCKY</b> 1490	5000	Covington, Ky.	<b>WEUU</b> 830	1000	Reading, Pa.
<b>WBEN</b> 900	1000	Buffalo, N. Y.	<b>WCLO</b> 1200	100	Janesville, Wis.	<b>WEHS</b> 1420	100	Cleero, Ill.
<b>WBEO</b> 1310	100	Marquette, Mich.	<b>WCLS</b> 1310	100	Joliet, Ill.	<b>WELI</b> 900	500	New Haven, Conn.
<b>WBIG</b> 1440	500	Greensboro, N. C.	<b>WCMI</b> 1310	100	Ashland, Ky.	<b>WELL</b> 1420	100	Battle Creek, Mich.
<b>WBNO</b> 1200	100	New Orleans, La.	<b>WCNW</b> 1500	100	Brooklyn, N. Y.	<b>WEMP</b> 1310	100	Millwaukee, Wis.
<b>WBNS</b> 1430	500	Columbus, Ohio	<b>WCOA</b> 1340	500	Pensacola, Fla.	<b>WENR</b> 870	50000	Chicago, Ill.
<b>WBNX</b> 1350	250	New York, N. Y.	<b>WCOC</b> 880	500	Meridian, Miss.	<b>WEOA</b> 1370	100	Evansville, Ind.
<b>WBNY</b> 1370	100	Buffalo, N. Y.	<b>WCOL</b> 1210	100	Columbus, Ohio	<b>WESG</b> 850	1000	Elmhra, N. Y.
<b>WBOQ</b> 860	50000	New York, N. Y.	<b>WCOP</b> 1120	500	Boston, Mass.	<b>WEST</b> 1200	100	Easton, Pa.
<b>WBOW</b> 1310	100	Terre Haute, Ind.	<b>WCPO</b> 1200	100	Cincinnati, Ohio	<b>WEVD</b> 1300	1000	New York, N. Y.
<b>WBRB</b> 1210	100	Red Bank, N. J.	<b>WCRW</b> 1210	100	Chicago, Ill.	<b>WEW</b> 760	1000	St. Louis, Mo.
<b>WBRC</b> 930	1000	Birmingham, Ala.	<b>WCSC</b> 1360	500	Charleston, S. C.	<b>WEXL</b> 1310	50	Royal Oak, Mich.
<b>WBRE</b> 1310	100	Wilkes-Barre, Pa.	<b>WCSS</b> 940	1000	Portland, Me.	<b>WFAA</b> 800	50000	Dallas, Texas
<b>WBT</b> 1080	50000	Charlotte, N. C.	<b>WDAE</b> 1220	1000	Tampa, Fla.	<b>WFAB</b> 1300	1000	New York, N. Y.
<b>WBTM</b> 1370	100	Danville, Va.	<b>WDAF</b> 610	1000	Kansas City, Mo.	<b>WFAM</b> 1200	100	South Bend, Ind.
<b>WBZ</b> 990	50000	Boston, Mass.	<b>WDAH</b> 1310	100	El Paso, Texas	<b>WFAS</b> 1210	100	White Plains, N. Y.
<b>WBZA</b> 990	1000	Springfield, Mass.	<b>WDAS</b> 1370	100	Philadelphia, Pa.	<b>WFBC</b> 1300	1000	Greenville, S. C.
<b>WCAC</b> 600	500	Storrs, Conn.	<b>WDAY</b> 940	1000	Fargo, N. D.	<b>WFBG</b> 1310	100	Altoona, Pa.
<b>WCAD</b> 1220	500	Canton, N. Y.	<b>WDBJ</b> 930	1000	Roanoke, Va.	<b>WFBL</b> 1360	1000	Syracuse, N. Y.
<b>WCAE</b> 1220	1000	Pittsburgh, Pa.	<b>WDBO</b> 580	1000	Orlando, Fla.	<b>WFBM</b> 1230	1000	Indianapolis, Ind.
<b>WCAL</b> 1250	1000	Northfield, Minn.	<b>WDEL</b> 1120	250	Wilmington, Del.	<b>WFBR</b> 1270	500	Baltimore, Md.
<b>WCAM</b> 1280	500	Camden, N. J.	<b>WDEV</b> 550	500	Waterbury, Vt.	<b>WFDF</b> 1310	100	Flint, Mich.
<b>WCAO</b> 600	500	Baltimore, Md.	<b>WDGY</b> 1180	1000	Minneapolis, Minn.	<b>WFEA</b> 1340	500	Manchester, N. H.
<b>WCAP</b> 1280	500	Asbury Park, N. J.	<b>WDNC</b> 1500	100	Durham, N. C.	<b>WFIL</b> 560	1000	Philadelphia, Pa.
<b>WCAT</b> 1280	100	Rapid City, S. D.	<b>WDOO</b> 1280	1000	Chattanooga, Tenn.	<b>WFLA</b> 620	1000	Clearwater, Fla.
<b>WCAU</b> 1170	50000	Philadelphia, Pa.	<b>WDRC</b> 1330	1000	Hartford, Conn.	<b>WFMD</b> 900	500	Frederick, Md.
<b>WCAX</b> 1200	100	Burlington, Vt.	<b>WDSU</b> 1250	1000	New Orleans, La.	<b>WFGAL</b> 1500	100	Lancaster, Pa.
<b>WCAZ</b> 1070	100	Carthage, Ill.	<b>WDZ</b> 1070	100	Tuscola, Ill.	<b>WGAR</b> 1450	500	Cleveland, Ohio
<b>WCBA</b> 1440	500	Allentown, Pa.	<b>WEAF</b> 660	50000	New York, N. Y.	<b>WGBB</b> 1210	100	Freeport, N. Y.
<b>WCBD</b> 1080	5000	Waukegan, Ill.	<b>WEAN</b> 780	500	Providence, R. I.	<b>WGBF</b> 630	500	Evansville, Ind.
<b>WCBM</b> 1370	100	Baltimore, Md.	<b>WECB</b> 1290	1000	Superior, Wis.	<b>WGBI</b> 880	500	Scranton, Pa.
<b>WCBS</b> 1420	100	Springfield, Ill.	<b>WEBQ</b> 1210	100	Harrisburg, Ill.	<b>WGCM</b> 1210	100	Gulfport, Miss.
<b>WCCO</b> 810	50000	Minneapolis, Minn.	<b>WEBR</b> 1310	100	Buffalo, N. Y.	<b>WGES</b> 1360	500	Chicago, Ill.

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WGH</b> 1310 Newport News, Va.	100	<b>WHOM</b> 1450 Jersey City, N. J.	250	<b>WJMS</b> 1420 Ironwood, Mich.	100
<b>WGL</b> 1370 Fort Wayne, Ind.	100	<b>WHP</b> 1430 Harrisburg, Pa.	500	<b>WJR</b> 750 Detroit, Mich.	50000
<b>WGN</b> 720 Chicago, Ill.	50000	<b>WIBA</b> 1280 Madison, Wis.	1000	<b>WJSV</b> 1460 Washington, D. C.	10000
<b>WGNY</b> 1210 Chester, N. Y.	100	<b>WIBG</b> 970 Glenside, Pa.	100	<b>WJW</b> 1210 Akron, Ohio	100
<b>WGPC</b> 1420 Albany, Ga.	100	<b>WIBM</b> 1370 Jackson, Mich.	100	<b>WJZ</b> 760 New York, N. Y.	50000
<b>WGR</b> 550 Buffalo, N. Y.	1000	<b>WIBU</b> 1210 Poynette, Wis.	100	<b>WKAQ</b> 1240 San Juan, P. R.	1000
<b>WGST</b> 890 Atlanta, Ga.	500	<b>WIBW</b> 580 Topeka, Kans.	1000	<b>WKAR</b> 850 East Lansing, Mich.	1000
<b>WGY</b> 790 Schenectady, N. Y.	50000	<b>WIBX</b> 1200 Utica, N. Y.	100	<b>WKBB</b> 1500 East Dubuque, Ill.	100
<b>WHA</b> 940 Madison, Wis.	1000	<b>WICC</b> 600 Bridgeport, Conn.	500	<b>WKBH</b> 1380 LaCrosse, Wis.	1000
<b>WHAM</b> 1150 Rochester, N. Y.	50000	<b>WIL</b> 1200 St. Louis, Mo.	100	<b>WKBI</b> 1420 Cicero, Ill.	100
<b>WHAS</b> 820 Louisville, Ky.	50000	<b>WILL</b> 890 Urbana, Ill.	250	<b>WKBN</b> 570 Youngstown, Ohio	500
<b>WHAT</b> 1310 Philadelphia, Pa.	100	<b>WILM</b> 1420 Wilmington, Del.	100	<b>WKBO</b> 1200 Harrisburg, Pa.	100
<b>WHAZ</b> 1300 Troy, N. Y.	500	<b>WIND</b> 560 Gary, Ind.	1000	<b>WKBV</b> 1500 Richmond, Ind.	100
<b>WHB</b> 860 Kansas City, Mo.	1000	<b>WINS</b> 1180 New York, N. Y.	1000	<b>WKBW</b> 1480 Buffalo, N. Y.	5000
<b>WHBB</b> 1500 Selma, Alabama	100	<b>WIOD</b> 1300 Miami, Fla.	1000	<b>WKBZ</b> 1500 Muskegon, Mich.	100
<b>WHBC</b> 1200 Canton, Ohio	100	<b>WIP</b> 610 Philadelphia, Pa.	1000	<b>WKEU</b> 1500 Griffin, Ga.	100
<b>WHBF</b> 1210 Rock Island, Ill.	100	<b>WIRE</b> 1400 Indianapolis, Ind.	500	<b>WKOK</b> 1210 Sunbury, Pa.	100
<b>WHBI</b> 1250 Newark, N. J.	1000	<b>WIS</b> 1010 Columbia, S. C.	500	<b>WKRC</b> 550 Cincinnati, Ohio	1000
<b>WHBL</b> 1410 Sheboygan, Wis.	500	<b>WISN</b> 1120 Milwaukee, Wis.	250	<b>WKY</b> 900 Oklahoma City, Okla.	1000
<b>WHBQ</b> 1370 Memphis, Tenn.	100	<b>WJAC</b> 1310 Johnstown, Pa.	100	<b>WKZO</b> 590 Kalamazoo, Mich.	1000
<b>WHBU</b> 1210 Anderson, Ind.	100	<b>WJAG</b> 1060 Norfolk, Neb.	1000	<b>WLAC</b> 1470 Nashville, Tenn.	5000
<b>WHBY</b> 1290 Green Bay, Wis.	100	<b>WJAR</b> 890 Providence, R. I.	500	<b>WLAP</b> 1420 Lexington, Ky.	100
<b>WHDF</b> 1370 Calumet, Mich.	100	<b>WJAS</b> 1290 Pittsburgh, Pa.	1000	<b>WLB</b> 1250 Minneapolis, Minn.	1000
<b>WHDH</b> 830 Boston, Mass.	1000	<b>WJAX</b> 900 Jacksonville, Fla.	1000	<b>WLCB</b> 1310 Muncie, Ind.	100
<b>WHDL</b> 1420 Olean, N. Y.	100	<b>WJAY</b> 610 Cleveland, Ohio	500	<b>WLBZ</b> 1420 Kansas City, Kans.	100
<b>WHEB</b> 740 Portsmouth, N. H.	250	<b>WJBC</b> 1200 Bloomington, Ill.	100	<b>WLBL</b> 900 Stevens Point, Wis.	2500
<b>WHEC</b> 1430 Rochester, N. Y.	500	<b>WJBK</b> 1500 Detroit, Mich.	100	<b>WLBZ</b> 620 Bangor, Me.	500
<b>WHEF</b> 1500 Kosciusko, Miss.	100	<b>WJBL</b> 1200 Decatur, Ill.	100	<b>WLEU</b> 1420 Erle, Pa.	100
<b>WHFC</b> 1420 Clcero, Ill.	100	<b>WJBO</b> 1420 Baton Rouge, La.	100	<b>WLLH</b> 1370 Lowell, Mass.	100
<b>WHIO</b> 1260 Dayton, Ohio	1000	<b>WJBR</b> 1420 Gastonia, N. C.	100	<b>WLNH</b> 1310 Laconia, N. H.	100
<b>WHIS</b> 1410 Bluefield, W. Va.	250	<b>WJBW</b> 1280 New Orleans, La.	100	<b>WLS</b> 870 Chicago, Ill.	50000
<b>WHJB</b> 620 Greensburg, Pa.	250	<b>WJBY</b> 1210 Gadsden, Ala.	100	<b>WLTH</b> 1400 Brooklyn, N. Y.	500
<b>WHK</b> 1390 Cleveland, Ohio	1000	<b>WJDX</b> 1270 Jackson, Miss.	1000	<b>WLVA</b> 1200 Lynchburg, Va.	100
<b>WHLB</b> 1370 Virginia, Minn.	100	<b>WJEJ</b> 1210 Hagerstown, Md.	100	<b>WLW</b> 700 Cincinnati, Ohio	50000
<b>WHN</b> 1010 New York, N. Y.	1000	<b>WJIM</b> 1210 Lansing, Mich.	100	<b>WLWL</b> 1100 New York, N. Y.	5000
<b>WHO</b> 1000 Des Moines, Iowa	50000	<b>WJJD</b> 1130 Chicago, Ill.	20000	<b>WMAL</b> 630 Washington, D. C.	250

## NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WMAQ</b> 670 Chicago, Ill.	50000	<b>WNRA</b> 1420 Sheffield, Ala.	100	<b>WRAK</b> 1370 Williamsport, Pa.	100
<b>WMAS</b> 1420 Springfield, Mass.	100	<b>WNRI</b> 1200 Newport, R. I.	100	<b>WRAW</b> 1310 Reading, Pa.	100
<b>WMAZ</b> 1180 Macon, Ga.	1000	<b>WNYC</b> 810 New York, N. Y.	1000	<b>WRAX</b> 920 Philadelphia, Pa.	250
<b>WMBC</b> 1420 Detroit, Mich.	100	<b>WOAI</b> 1190 San Antonio, Texas	50000	<b>WRBL</b> 1200 Columbus, Ga.	100
<b>WMBD</b> 1440 Peoria, Ill.	500	<b>WOC</b> 1370 Davenport, Iowa	100	<b>WRC</b> 950 Washington, D. C.	500
<b>WMBG</b> 1210 Richmond, Va.	100	<b>WOCL</b> 1210 Jamestown, N. Y.	50	<b>WRDO</b> 1370 Augusta, Me.	100
<b>WMBH</b> 1420 Joplin, Mo.	100	<b>WOI</b> 640 Ames, Iowa	5000	<b>WRDW</b> 1500 Augusta, Ga.	100
<b>WMBI</b> 1080 Chicago, Ill.	5000	<b>WOKO</b> 1430 Albany, N. Y.	500	<b>WREC</b> 600 Memphis, Tenn.	1000
<b>WMBO</b> 1310 Auburn, N. Y.	100	<b>WOL</b> 1310 Washington, D. C.	100	<b>WREN</b> 1220 Lawrence, Kans.	1000
<b>WMBQ</b> 1500 Brooklyn, N. Y.	100	<b>WOMT</b> 1210 Manitowoc, Wis.	100	<b>WRGA</b> 1500 Rome, G.	100
<b>WMBR</b> 1370 Jacksonville, Fla.	100	<b>WOOD</b> 1270 Grand Rapids, Mich.	500	<b>WRJN</b> 1370 Racine, Wis.	100
<b>WMC</b> 780 Memphis, Tenn.	1000	<b>WOPI</b> 1500 Bristol, Tenn.	100	<b>WROK</b> 1410 Rockford, Ill.	500
<b>WMCA</b> 570 New York, N. Y.	500	<b>WOR</b> 710 Newark, N. J.	50000	<b>WROL</b> 1310 Knoxville, Tenn.	100
<b>WMEX</b> 1500 Boston, Mass.	100	<b>WORC</b> 1280 Worcester, Mass.	500	<b>WRR</b> 1280 Dallas, Texas	500
<b>WMFD</b> 1370 Wilmingtion, N. C.	100	<b>WORK</b> 1320 York, Pa.	1000	<b>WRUF</b> 830 Gainesville, Fla.	5000
<b>WMFF</b> 1310 Plattsburg, N. Y.	100	<b>WORL</b> 920 Babson Park, Mass.	500	<b>WRVA</b> 1110 Richmond, Va.	5000
<b>WMFG</b> 1210 Hibbing, Minn.	100	<b>WOS</b> 630 Jefferson City, Mo.	500	<b>WSAI</b> 1330 Cincinnati, Ohio	1000
<b>WMFJ</b> 1420 Daytona Beach, Fla.	100	<b>WOSU</b> 570 Columbus, Ohio	750	<b>WSAJ</b> 1310 Grove City, Pa.	100
<b>WMFN</b> 1210 Clarksdale, Miss.	100	<b>WOV</b> 1130 New York, N. Y.	1000	<b>WSAN</b> 1440 Allentown, Pa.	500
<b>WMFO</b> 1370 Decatur, Ala.	100	<b>WOW</b> 590 Omaha, Neb.	50	<b>WSAR</b> 1350 Fall River, Mass.	1000
<b>WMFR</b> 1200 High Point, N. C.	100	<b>WOWO</b> 1160 Fort Wayne, Ind.	10000	<b>WSAY</b> 1210 Rochester, N. Y.	100
<b>WMMN</b> 890 Fairmount, W. Va.	500	<b>WPAD</b> 1420 Paducah, Ky.	100	<b>WSAZ</b> 1190 Huntington, W. Va.	1000
<b>WMPC</b> 1200 Lapeer, Mich.	100	<b>WPAK</b> 1420 Parkersburg, W. Va.	100	<b>WSB</b> 740 Atlanta, Ga.	50000
<b>WMT</b> 600 Cedar Rapids, Iowa	1000	<b>WPAX</b> 1210 Thomasville, Ga.	250	<b>WSBC</b> 1210 Chicago, Ill.	100
<b>WNAC</b> 1230 Boston, Mass.	1000	<b>WPAY</b> 1370 Portsmouth, Ohio	100	<b>WSBT</b> 1360 South Bend, Ind.	500
<b>WNAD</b> 1010 Norman, Okla.	1000	<b>WPEN</b> 920 Philadelphia, Pa.	250	<b>WSFA</b> 1410 Montgomery, Ala.	500
<b>WNAX</b> 570 Yankton, S. D.	1000	<b>WPFB</b> 1370 Hattiesburg, Miss.	100	<b>WSGN</b> 1310 Birmingham, Ala.	100
<b>WNBC</b> 1380 New Britain, Conn.	250	<b>WPG</b> 1100 Atlantic City, N. J.	5000	<b>WSIX</b> 1210 Springfield, Tenn.	100
<b>WBNF</b> 1500 Binghamton, N. Y.	100	<b>WPHR</b> 880 Petersburg, Va.	500	<b>WSJS</b> 1310 Winston-Salem, N. C.	100
<b>WNBH</b> 1310 New Bedford, Mass.	100	<b>WPRO</b> 630 Providence, R. I.	250	<b>WSM</b> 650 Nashville, Tenn.	50000
<b>WNBR</b> 1430 Memphis, Tenn.	500	<b>WPRP</b> 1420 Ponce, P. R.	100	<b>WSMB</b> 1320 New Orleans, La.	500
<b>WNBX</b> 1260 Springfield, Vt.	1000	<b>WPTF</b> 68 Raleigh, N. C.	5000	<b>WSMK</b> 1380 Dayton, Ohio	200
<b>WNBZ</b> 1290 Saranac Lake, N. Y.	100	<b>WQAM</b> 560 Miami, Fla.	1000	<b>WSOC</b> 1210 Charlotte, N. C.	100
<b>WNEL</b> 1290 San Juan, P. R.	1000	<b>WQAN</b> 880 Scranton, Pa.	250	<b>WSPA</b> 920 Spartanburg, S. C.	1000
<b>WNEW</b> 1250 Newark, N. J.	1000	<b>WQBC</b> 1360 Vicksburg, Miss.	1000	<b>WSPD</b> 1340 Toledo, Ohio	1000
<b>WNOX</b> 560 Knoxville, Tenn.	1000	<b>WQDM</b> 1370 St. Albans, Vt.	100	<b>WSUI</b> 880 Iowa City, Iowa	500

# NORTH AMERICAN B. C. STATIONS BY CALLS

<b>WSUN</b> 620	1000		<b>W9XBY</b> 1530	1000		<b>XEMA</b> 1080	50
St. Petersburg, Fla.			Kansas City, Mo.			Tampico, Tams.	
<b>WSVA</b> 550	500		<b>XEA</b> 1060	500		<b>XEMO</b> 860	5000
Harrisonburg, Va.			Guadalajara, Jal.			Tijuana, L. C.	
<b>WSVS</b> 1370	50		<b>XEAA</b> 920	200		<b>XEMX</b> 1280	12
Buffalo, N. Y.			Mexicali, B. C.			Mexico City, D. F.	
<b>WSYB</b> 1500	100		<b>XEAF</b> 990	500		<b>XEMZ</b> 820	.....
Rutland, Vt.			Nogales, Son.			Coronado Isl., L. C.	
<b>WSYR</b> 570	250		<b>XEAI</b> 1240	100		<b>XEMZ</b> 1210	250
Syracuse, N. Y.			Mexico City, D. F.			Tijuana, L. C.	
<b>WTAD</b> 900	500		<b>XEAJ</b> 1310	15		<b>XEN</b> 710	1900
Quincy, Ill.			Oaxaca, Oax.			Mexico City, D. F.	
<b>WTAG</b> 580	500		<b>XEAM</b> 750	7.5		<b>XENT</b> 910	65000
Worcester, Mass.			Matamoros, Tams.			Nuevo Laredo, Tams.	
<b>WTAL</b> 1310	100		<b>XEAO</b> 560	250		<b>XEOK</b> 760	250
Tallahassee, Fla.			Mexicali, B. C.			Tijuana, L. C.	
<b>WTAM</b> 1070	50000		<b>XEAS</b> 1160	100		<b>XEOX</b> 640	500
Cleveland, Ohio			Saltillo, Coah.			Saltillo, Coah.	
<b>WTAQ</b> 1330	1000		<b>XEAW</b> 960	50000		<b>KEP</b> 840	500
Eau Claire, Wis.			Reynosa, Tams.			Mexico City, D. F.	
<b>WTAR</b> 780	500		<b>XEAZ</b> 1420	7		<b>PEPN</b> 590	50000
Norfolk, Va.			Guanajuato, Gto.			Pedras Negras, Coah.	
<b>WTAW</b> 1120	500		<b>XEB</b> 1030	10000		<b>XERA</b> 840	250000
College Station, Tex.			Mexico City, D. F.			Villa Acuna, Coah.	
<b>WTAX</b> 1210	100		<b>XEBH</b> 1000	500		<b>XES</b> 990	250
Springfield, Ill.			Hermosillo, Sonora			Tampico, Tams.	
<b>WTBO</b> 800	250		<b>XEC</b> 1160	30		<b>XESL</b> 1160	.....
Cumberland, Md.			Tijuana, L. C.			Tijuana, L. C.	
<b>WTCN</b> 1250	1000		<b>XECW</b> 1310	10		<b>XET</b> 690	500
Minneapolis, Minn.			Mexico City, D. F.			Monterrey, N. L.	
<b>WTEL</b> 1310	100		<b>XED</b> 1155	2500		<b>XETB</b> 1310	125
Philadelphia, Pa.			Guadalajara, Jal.			Torreón, Coah.	
<b>WTFI</b> 1450	500		<b>XEE</b> 1210	50		<b>XETF</b> 1220	12
Athens, Ga.			Durango, Dgo.			Veracruz, Ver.	
<b>WTIC</b> 1040	50000		<b>XEFA</b> 1180	500		<b>XETH</b> 1210	100
Hartford, Conn.			Mexico City, D. F.			Puebla, Pue.	
<b>WTJS</b> 1310	100		<b>XEFB</b> 1420	100		<b>XETW</b> 820	500
Jackson, Tenn.			Monterrey, N. L.			Mexico City, D. F.	
<b>WTMJ</b> 620	1000		<b>XEFC</b> 560	100		<b>XEU</b> 1010	250
Milwaukee, Wis.			Merida, Yuc.			Veracruz, Ver.	
<b>WTMV</b> 1500	100		<b>XEFE</b> 850	250		<b>XEW</b> 890	50000
East St. Louis, Ill.			Laredo, Tams.			Mexico City, D. F.	
<b>WTNJ</b> 1280	500		<b>XEFI</b> 1440	250		<b>XEWZ</b> 1150	100
Trenton, N. J.			Chihuahua, Chih.			Mexico City, D. F.	
<b>WTOC</b> 1260	1000		<b>XEFJ</b> 1230	100		<b>XEX</b> 1310	125
Savannah, Ga.			Monterrey, N. L.			Monterrey, N. L.	
<b>WTRC</b> 1310	100		<b>XEFL</b> 1150	500		<b>XEY</b> 1000	10
Elkhart, Ind.			Tijuana, L. C.			Merida, Yuc.	
<b>WVFW</b> 1400	500		<b>XEFO</b> 940	5000		<b>XEYZ</b> 780	10000
Brooklyn, N. Y.			Mexico City, D. F.			Mexico City, D. F.	
<b>WWAE</b> 1200	100		<b>XEFV</b> 1210	100		<b>XEZ</b> 630	500
Hammond, Ind.			Jaurez, Chih.			Merida, Yuc.	
<b>WWJ</b> 920	1000		<b>XEFW</b> 1310	250		<b>XEZZ</b> 1370	100
Detroit, Mich.			Tampico, Tams.			San Luis Potosi, S.L.P.	
<b>WWL</b> 850	10000		<b>XEFZ</b> 1370	100		<b>XFA</b> 1310	5
New Orleans, La.			Mexico City, D. F.			Aguascalientes, Ags.	
<b>WWNC</b> 70	1000		<b>XEG</b> 1270	200		<b>XFB</b> 1270	250
Asheville, N. C.			Ensenada, B. C.			Jalapa, Ver.	
<b>WURL</b> 500	100		<b>XEH</b> 1150	250		<b>XFC</b> 810	350
Woodside N. Y.			Monterrey, N. L.			Aguascalientes, Ags.	
<b>WWSW</b> 1500	100		<b>XEI</b> 1370	125		<b>XFD</b> 1340	350
Pittsburgh, Pa.			Morelia, Mich.			Jalapa, Ver.	
<b>WWVA</b> 1160	5000		<b>XEJ</b> 1020	1000		<b>XFO</b> 940	5000
Wheeling, W. Va.			Juarez, Chih.			Mexico City, D. F.	
<b>WXYZ</b> 1240	1000		<b>XEK</b> 990	100		<b>XFX</b> 610	1000
Detroit, Mich.			Mexico City, D. F.			Mexico City, D. F.	
<b>W1XBS</b> 1530	1000		<b>XEKL</b> 1240	500		<b>YNLF</b> 1275	20
Waterbury, Conn.			Leon, Guan.			Managua, Nicaragua	
<b>W2XR</b> 1550	1000		<b>XEL</b> 1100	250		<b>YNOP</b> 1230	100
Long Island City, N. Y.			Mexico City, D. F.			Managua, Nicaragua	
<b>WSXAI</b> 1550	1000		<b>XELO</b> 1110	10000		<b>YNVA</b> 950	30
Bakersfield, Calif.			Pedras 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 GSB GSD JVM JVT PCJ RV15 VK2ME VK3LR	DJB DJN GSB HVJ JVM JVT LKJ1 RV15	DJB DJN GSF GSG JVM JVT LKJ1 RV15 VK2ME VK3LR VK3ME W8XAL YDA YDB	G+F GSG JVM JVT LKJ1 PCJ RNE Pont. RV15 VK2ME VK3LR W8XAL W8XK YDA YDB	DJA DJB DJE DJN GSF GSG PCJ PRI Pont. RNE VK2ME W8XAL YDA YDB	DJA DJB DJE DJN GSB GSD GSF GSG HASS PCJ PHI Pont. RNE W1XK W8XK	DJA DJB DJE DJN GSB GSD GSF GSG HVJ PCJ PHI Pont. RNE W1XK W8XAL W8XK W9XAA	DJA DJB DJE DJN GSB GSD GSF GSG Pont. W1XK W8XAL W8XK W9XAA

## NOON TO MIDNIGHT (EST)

GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1:00	2:00	3:00	4:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJC DJD EAQ GSB GSD GSI GSL Pont. W1XK W2XE W2XAD W3XAU W8XAL W8XK W9XAA	DJC DJD G&B GSD GSI GSL I2RO Pont. W1XK W2XAD W2XAF W3XAU W8XK W9XAA	DJC DJD G&B GSD GSI GSL I2RO ORK W1XK W2XAD W2XAF W3XAU W8XK W9XAA	CJRO CJR DJC DJD G&B DJC GSD GSI GSL I2RO ORK RV59 W1XK W3XAL W3XAU W8XK W9XAA	CHNX CJRO CJR DJC DT1AA DJA DJD GSA GSD GSI GSL HBL HJ1ABB Pont. RV59 W1XK W2XE W3XAL W3XAU W8XK W9XAA XEBT YV3RC	CHNX CJRO CJR DJC CT1AA COCX CJRX DJA DJD GSA GSD GSI GSL HBL HJ1ABB Pont. RV59 W1XK W2XE W3XAL W3XAU W8XK W9XAA XEBT YV3RC	CHNX CJRO CJR DJC COCX CJRX DJA DJD GSA DJA DJD GSA GSD GSI GSL HBL HJ1ABB Pont. RV59 W1XK W2XE W3XAL W3XAU W8XK W9XAA XEBT YV3RC	CHNX CJRO CJR DJC COCX CJRX DJA DJD GSA DJA DJD GSA GSD GSI GSL HBL HJ1ABB Pont. RV59 W1XK W2XE W3XAL W3XAU W8XK W9XAA XEBT YV3RC	CHNX CEC CJRO CJR COCX CJRX DJA DJD GSA DJA DJD GSA GSD GSI GSL HBL HJ1ABB Pont. RV59 W1XK W2XE W3XAL W3XAU W8XK W9XAA XEBT YV3RC	CHNX CJRO CJR COCX CJRX DJA DJD GSA DJA DJD GSA GSD GSI GSL HBL HJ1ABB Pont. RV59 W1XK W2XE W3XAL W3XAU W8XK W9XAA XEBT YV3RC	CHNX CJRO CJR COCX CJRX DJA DJD GSA DJA DJD GSA GSD GSI GSL HBL HJ1ABB Pont. RV59 W1XK W2XE W3XAL W3XAU W8XK W9XAA XEBT YV3RC	CJRO CJR COCX CJRX HJ4ABL TGWA DJN GSC GSD GSL HC2RL HC2ET OAX4D PRADO TGWA TGX W1XK W2XAF W3XAU W8XK W9XAA XEBT

# 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.  
CHNX, Halifax, N. S., 6.110. 0900-1230; 1600-2300.  
CJRO, Winnipeg, Man. 6.150. Sun. 1500-2200; other days, 2000-2400  
CJRX, Winnipeg, Man., 11.720. Sun., 1500-2200; other days, 2000-2400.  
COCD, Havana, Cuba, 6.130. Sun., 1700-2300; weekdays, 1100-2400.  
COCH, Havana, Cuba, 9.428. Daily 1000-1200; 1600-1800; 2100-2200.  
COCO, Havana, Cuba, 6.010. Daily 1600-1900.  
CO9GC, Santiago, Cuba, 6.150. Sun., 0000-0200.  
CO9JQ, Camaguey, Cuba, 8.665, 2000-2100.  
CO9WR, Sancti-Spiritus, Cuba, 11.800.  
CRCX, Toronto, Ont., 6.090. Daily 1830-2330.  
CTIAA, Lisbon, Portugal, 9.600. Tues., Thurs., Sat., 1630-1900.  
DJA, Berlin, Germany, 9.560, 0030-0215; 0800-1130; 1705-2115.  
DJB, Berlin, Germany, 15.200. 0345-0715; 0800-1130.  
DJC, Berlin, Germany, 6.020. 1200-1630; 1700-2245.  
DJD, Berlin, Germany, 11.770. 1200-1630.  
DJE, Berlin, Germany, 17.760. 0800-1130.  
DJN, Berlin, Germany, 9.540. 0030-0215; 0345-0715; 0800-1130; 1705-2245.  
DJQ, Berlin, Germany, 15.280. 0030-0215.  
EAQ, Madrid, Spain, 9.862. 1730-1900; Sat., 1200-1400.  
GSA, Daventry, England, 6.050. 1600-1745; 1800-2000.  
GSB, Daventry, England, 9.510. 0330-0530; 0900-1200; 1215-1545; 1645-1745; 1800-2000.  
GSC, Daventry, England, 9.580. 1645-1745; 1800-2000; 2200-2300.  
GSD, Daventry, England, 11.750. 1215-1545; 2200-2300.  
GSE, Daventry, England, 11.860. 0900-1200.  
GSF, Daventry, England, 15.140. 0330-0530; 0700-0845; 0900-1200.  
GSG, Daventry, England, 17.900. 0700-0845; 0900-1200.  
GSI, Daventry, England, 15.260. 1215-1545.  
GSL, Daventry, England, 6.110. 1215-1545; 1800-2000; 2200-2300.  
HAS3, Budapest, Hungary, 15.370. Sun. 0900-1000.  
HAT4, Budapest, Hungary, 9.125. Sun., 1800-1900.  
HBL, Geneva, Switz., 9.595, Sat., 1730-1815.  
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.  
HC2RL, Guayaquil, Ecuador, 6.650. Tues., 2115-2315; Sun., 1745-1945.  
HHH, San Pedro de Macoris, D. R. 6.800. Sun., 0300-0400; 1230-1500; 1600-1700; Mon., Wed., Thur., Sat., 1210-1400; 1910-2100; Tues., Fri., 1210-1400; 1910-2010.  
HIX, Santo Domingo, D. R., Tues., Fri., 2000-2200.  
HIZ, Santo Domingo, D. R., 6.315. Sat., 2300-0100; daily exc. Sun., 1700-1800.  
HJ1ABB, Barranquilla, Colombia, 6.447. 1700-2200.  
HJ1ABD, Cartagena, Colombia, 7.280. 1945-2115.  
HJ1ABE, Cartagena, Colombia, 6.115. Sun. at 0400; Mon., 2200-2400; Wed., 2000-2200.  
HJ1ABG, Barranquilla, Colombia, 6.042. 1900-2200.  
HJ1ABH, Cienaga, Colombia, 6.300. Tues., Fri., 1945-2200.  
HJ1ABJ, Santa Marta, Colombia, 6.006. Weekdays, 1100-1300; 1900-2100.  
HJ2ABC, Cucuta, Colombia, 5.975. Weekdays, 1800-2100.  
HJ2ABD, Bucaramanga, Colombia, 5.980. Daily, 1130-1230; 1730-1830. 1930-2230.  
HJ3ABD, Bogota, Colombia, 7.390.  
HJ3ABF, Bogota, Colombia, 6.200. 1900-2300.  
HJ3ABH, Bogota, Colombia, 6.012. Sun., 1600-2100; other days, 1800-2300.  
HJ4ABA, Medellin, Colombia, 11.720. 1130-1300; 1830-2230.  
HJ4ABC, Ibague, Colombia, 6.450. 2000-2200.  
HJ4ABD, Medellin, Colombia, 5.770. 1800-2300.  
HJ4ABE, Medellin, Colombia, 5.900. 1900-2300.  
HJ4ABL, Manizales, Colombia, 6.100. Sat., 2300-2430.  
HJ5ABC, Cali, Colombia, 6.150. Mon., Tues., Wed., Fri., 1900-2200.  
HJ5ABD, Cali, Colombia, 6.490. Thurs., Sat., Sun., 1900-2100.  
HJ5ABE, Cali, Colombia, 14.000. 1900-2200.  
HKE, Bogota, Colombia, 7.090.  
HP5B, Panama City, Panama, 6.030. 1900-2200.  
HP5J, Panama City, Panama, 9.590. 1930-2200.  
HRN, Tegucigalpa, Honduras, 5.875. Weekdays, 1830-2000; 2030-2300. Sun., 2200-2300.  
HVJ, Vatican City, 5.970. Sun., 0500-0530. 15.120. Tests late afternoons.  
I2RO, Rome, Italy, 9.630. Mon., Wed., Fri., 1800-2100.  
I2RO, Rome, Italy, 11.810. Daily, 1430-1700.  
JVM, Nazaki, Japan, 10.740. Daily, 0400-0745.  
JVT, Nazaki, Japan, 6.750. Daily, 0400-0745.  
LCL, Jeloy, Norway, 6.130. 0500-0800.  
IKJ1, Jeloy, Norway, 9.540. 0500-0800.  
OAX4D, Lima, Peru, 5.780. Wed., Sat., 2100-2330.  
OAX4G, Lima, Peru, 6.230. 1900-2200.  
ORK, Brussels, Belgium, 10.330. Daily, 1430-1600.  
PCJ, Hilversum, Netherlands, 15.220. Sun., 0730-1000; Tues., 0300-0600; Wed., 0700-1100.  
PH1, Hilversum, Netherlands, 11.730. 0830-1100, daily exc. Tues. and Wed.  
PRADO, Riobamba, Ecuador, 6.620. Thurs., 2100-2330.  
PRF5, Rio de Janeiro, Brazil, 9.505. 1700-1745.  
RNE, Moscow, USSR. 12.000. Sun., 0700-1100.  
RV15, Khabarovsk, USSR., 4.273. Daily, 0300-0900.  
RV59, Moscow, USSR., 5.996. Daily 1500-1800.  
SPW, Warsaw, Poland, 13.630. Testing.  
TGWA, Guatemala City, 6.000. Weekdays, 1930-2030; 2200-2400.  
TG1X, Guatemala City, 9.450. Weekdays, 1930-2030; 2200-2400  
TG2X, Guatemala City, 5.940. Daily 2100-2200.  
TIEP, San Jose, Costa Rica, 6.710. 1900-2200.  
TI1GPH, San Jose, Costa Rica, 5.820. 1900-2200.  
TI1GP, San Jose, Costa Rica, 6.385. Weekdays, 1730-2230.  
TIRCC, San Jose, Costa Rica, 6.550. Daily, 1800-1900. Sun., Thurs., 2000-2100; Sun., 1100-1300.  
TI5HH, San Ramon, Costa Rica, 5.520. 1530-1700; 2000-2130.  
TI8WS, Puntarenas, Costa Rica, 7.550. 1800-1900; 2000-2100.  
VK2ME, Sydney, Australia, 9.585. Sun., 0000-0200; 0430-0830; 0900-1100.  
VK3LR, Melbourne, Australia, 9.580. Mon., Tues., Wed., Thurs., 0315-0730; Fri., 2230-0200; Sat., 0500-0730.  
VK3ME, Melbourne, Australia, 9.503. Weekdays, 0500-0700.  
VPD, Suva, Fiji, 13.075. 0030-0130  
VUB, Bombay, India, 9.565. Sun., near 7 a.m.  
W1XAL, Boston, Mass., 11.790. Daily exc. Sat., Sun., 1630-1930.  
W1XK, Mills, Mass., 9.570. 0700-0100.  
W2XAD, Schenectady, N. Y. 15.330. Sat., 1300-1615; Sun., 1030-1600; other days, 1400-1500.  
W2XAF, Schenectady, N. Y., 9.530. Daily 1630-2400.



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, Tandjongprik, 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  
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TIME CONVERTER

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**PRICE**  
**25¢**

**DIRECTIONS**—Turn the dial here, either A.M. or P.M., in the sector marked "TODAY" opposite your own zone, and the correct time in all other zones in the world will be shown. It will also be indicated which of the other zones are "Yesterday" and which are "Tomorrow." The position of twilight, darkness and dawn is graphically shown. Or, if you desire to tune in a New Zealand program, turn the hour of the program (say 9:00 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.

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Just turn the dial to the time in your zone and—Presto: Change—there is the time for every other place in the world.

No adding; no subtracting; no trying to figure which is yesterday, today or tomorrow. The dial does it all.

Big map of the world showing all principal cities and their time zones.

Only a Quarter Postpaid to any country.

**THE RADEX  
PRESS INC.  
CONNEAUT,  
OHIO  
U. S. A.**

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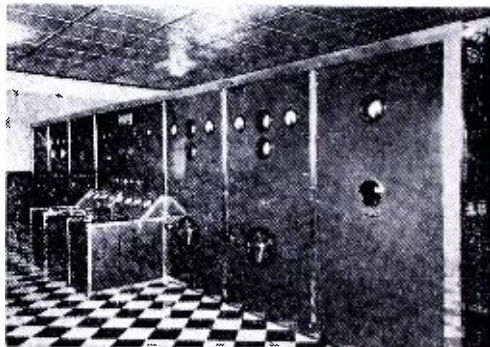
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*Radio Excelsior's 25 kilowatt transmitter, designed and built by Marconi. Buenos Aires. Argentina.*

### INSURE YOUR RADIO ENJOYMENT SEND THIS BLANK TODAY

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 Conneaut, Ohio:

Enclosed find \$.....for which send me postpaid my choice of your offers as checked below:

- Program "slates"**       1 for 10c       2 for 15c       4 for 25c
- One Radio World Map and Time Converter..... 25c
- One copy of the next RADEX ..... 25c
- One year's subscription to RADEX, 10 issues.....\$2.00  
 Per year outside the U. S. A. and Canada \$2.50
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- Beginner's Story of Radio ..... .50

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

Write Name Plainly .....

Street and Number .....

City and State .....



*Sometimes I think there ought to be a law to make everyone do a little studying every week. I didn't think that a year ago because it looked like all the cards were stacked against me. But I am surely making good money now. Maybe my story will show you the way to larger earnings also.*

# I THOUGHT RADIO WAS A PLAYTHING

**But Now My Eyes Are Opened, and I'm Making Over \$40.00 a Week!**

\$40 a week! Man alive, a year ago I thought anyone making so much was just plain lucky.

Twelve months ago I was just barely getting by. It was the same old story—a little job; a salary as small as the job.

If you had told me that twelve months later I would be making \$40 a week in my own Radio business—I'd thought you were crazy.

But I am getting ahead of my story—let me tell you how it all started. I was hard up a year ago because I had been kidding myself—that's all—not because I had to be. I thought a fellow either had to be lucky or have a string of college degrees to make good money.

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

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

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

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

That business has since grown to the point where I am clearing an average of \$40 a week. All this took place under the watchful guidance of my friends at the National Radio Institute. They also offered to train me for other lines. Broadcasting Stations, Radio Manufacturers, Operating on Board Ship, Servicing Sets, Aviation Radio, Television, Short Wave, Automobile and Police Radio, Loud Speaker Systems are other fields their training covers. And to think, until the day I wrote for that book, I'd been wailing, "I never had a chance and will never have one because I have no pull or a good education!"

Friend—you may not be as bad off as I was—

but think it over—are you satisfied? Are you making as much money as you need? Would you sign a contract to stay where you are for the next ten years at the same salary? Those are the things you have to think about—because no one is going to make it his business to push you ahead—you must make it your own business.

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

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

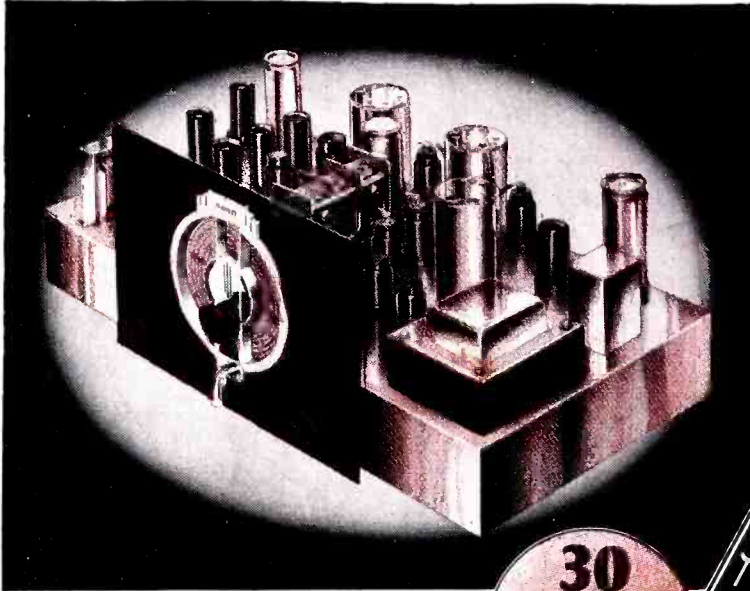
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City ..... State .....

14X1

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# 14-Tube

**FIVE WAVE BAND,  
WORLD WIDE SET  
9 TO 2400  
METERS**

**DEAL DIRECT WITH LABORATORIES  
SAVE UP TO 50%**

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 new tubes.

**30  
DAYS  
FREE  
TRIAL**

**\$39.50**  
with New  
**AUDITORIUM TYPE  
SPEAKER**  
(LESS TUBES)

**EASY  
PAYMENT  
TERMS**

### 50 SENSATIONAL ADVANCEMENTS

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, airplane and ship broadcasts... to the finest and most fascinating programs from Europe, Africa, Asia, Australia South America... 12,000 miles away.

### Acousti-Tone V-Spread Design (U. S. Design Patent No. 96750)

The V-Front Dispersing Vanes established a new radio style overnight. They spread the beautiful lace-work of the "high" throughout the room in a scientific manner... directing the High Fidelity waves uniformly to the ear. 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.



### Ted Weems Enthusias Over Foreign Reception

"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." **Ted Weems.**

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 colors.



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**Free 30-DAY TRIAL OFFER**  
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