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THE DECEMBER 1936

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RADIO INDEX

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Day's News
All the Foreign Broadcasting
Stations
Why Winter Nights Are Best

No. 104

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The Radex Press, Conneaut, O.

SENSATIONAL *New* SCOTT "MAGIC LINK" CONQUERS "Man-Made" STATIC



23 Tube High Fidelity SCOTT Equipped with "MAGIC LINK" IN AMAZING DEMONSTRATION PROVES QUIET FOREIGN RECEPTION NOW POSSIBLE IN BAD RECEIVING LOCATIONS

On Wednesday, October 7, 1936, at the SCOTT Radio Laboratories, a small group of radio engineers and short wave enthusiasts were shown, for the first time, the latest development of the SCOTT Research Laboratories. They intently watched two radio sets at one end of a room—both connected to the same lead-in with a two-way switch, and both tuned in to DJB, Germany, 15.20 megacycles.

Germany Blotted Out

Suddenly, within three feet of these receivers, a terrific barrage of interference was turned on—from a violet ray machine, vacuum cleaner and automobile ignition coil, buzzing out streams of "man-made" static! What happened? From one receiver came a deafening roar such as you would hear in a boiler factory—and the program from Germany was completely blotted out!

Clear with "Magic Link"

The two-way switch on the antenna was then thrown to the 23-tube SCOTT receiver equipped with the sensational new "MAGIC LINK", the SCOTT Supershield Antenna Coupling System, and from Germany, over 4,000 miles away, the program came in as crystal clear, strong and enjoyable as a local station—all without the slightest trace of "man-made" static from the violet ray machine, vacuum cleaner and spark coil, each crashing and spluttering only three feet away from the antenna lead-in.

E. H. SCOTT RADIO LABORATORIES, INC.
4450 Ravenswood Avenue, Dept. 15W6, Chicago, Illinois

630 Fifth Avenue,
New York, N. Y.

115 N. Robertson Blvd.,
Los Angeles, Cal.

Builders of the World's Finest Custom-Built Radios Since 1924

Quiet Foreign Reception Now Possible for First Time in Many Locations

WHAT SCOTT SUPERSHIELD ANTENNA COUPLING SYSTEM ACCOMPLISHES

1. Doubles sensitivity or distance-getting ability of antenna and receiver combination, as compared with best results with any previous noise-reducing antenna with inefficient shielded coupler.
2. Improves antenna lead-in signal to noise ratio by 100 to 1 over best previous accomplishment of any antenna.
3. Eliminates shielded coupler switch. Switching from broadcast to short wave bands is automatic with SCOTT Supershield Antenna Coupling System.

The climax of 8 years of tireless research, this sensational new development means that "man-made" static caused by electrical appliances and picked up on the lead-in has, for the first time, been conquered without loss of signal strength! Up to

The new SCOTT Supershield Antenna Coupling System—any other "noise reducing" system in slashing away from the lead-in "man-made" static so disturbing to enjoyable, dependable foreign reception.

this time foreign reception from England, Germany, France, Italy and many other foreign stations has been spoiled for thousands of residents of apartment buildings, hotels and homes by the static from electrical appliances picked up on the antenna lead-in. Now these programs can be heard clearly, quietly, regularly—with the 23-tube SCOTT Equipped with the new SCOTT Supershield Antenna Coupling System.

COMPARE IN YOUR OWN HOME

We invite you to make a 30-day side-by-side comparison test of the SCOTT against any other receiver, regardless of price. If the SCOTT does not bring in foreign and domestic stations with more volume, greater clarity, and with finer and more natural tone, we will refund your payment price without question.

Send TODAY for complete proof—and full description of this remarkable new development that now makes possible in conjunction with the 23-tube FULL RANGE HIGH FIDELITY SCOTT Receiver, unparalleled tone, and distance performance in every continent of the globe. Discover this vast new world of radio entertainment you will never hear without a SCOTT. SEND COUPON NOW.

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Send details of unequalled D X Tone of 23 Tube SCOTT with new "Magic Link" Antenna Coupling System.

Name.....
Address.....
City.....State.....

Death Takes FRED C. BUTLER Founder of RADEX

Dies at Conneaut, Ohio, October 12, Bringing to
Abrupt End Long Career of Usefulness

FRED CLAYTON BUTLER, Editor and Publisher of RADEX, died suddenly on October 12, from coronary thrombosis. He had not been ill at any time up to almost the hour of his untimely death, and the sad news comes as a great shock to his many friends in the publishing and radio industries.

Mr. Butler had had a colorful career, and was still a comparatively young man. Born on a farm in Illinois, he attended country schools, then high school in the city, then normal school where he secured a teacher's certificate. He taught school, was thoroughly well read, and had an unusual understanding of economics and philosophy.

After a brief teaching career, he became a railroad stenographer and then chief clerk in the general offices at Chicago. Later he was appointed secretary of a corporation in Kalamazoo, Mich., and while there he became interested in commercial club work. He was made secretary of the Chamber of Commerce at Kalamazoo and established such a reputation that he received a call from the Chamber of Commerce at Jamestown, N. Y., and later from North Tonawanda, N. Y.

He was elected a director of the U. S. Chamber of Commerce. About this time the war broke out, and the Chamber recommended his appointment by the government to take charge of Americanization and rehabilitation. At some sacrifice in salary he accepted the appointment, and was chairman of President Wil-

son's Committee on Americanization. His job was to provide adequate quarters for the many civilian workers in armories, arsenals and in private plants commandeered by the government, and his interest was always in their welfare.

He was directly under Secretary of War Newton D. Baker, and later under Secretary of the Interior Franklin K. Lane, both of whom became his personal friends. Indeed, letters of commendation from both now hang upon the walls of the RADEX offices.

Following the war he desired to return to private business. He was promptly offered the position of Executive Secretary of the Cleveland Garment Manufacturers' Association, which comprised 39 of the largest manufacturing plants in Cleveland, and it was his duty to act as arbiter and mediator in all matters affecting capital and labor, and during the ten or more years of his service, no labor strike occurred in the garment industry in that city!

About this time radio made its appearance, and Mr. Butler became instantly interested, designing and building many sets of his own, largely for amusement. Then he conceived the idea of a radio "log," listing the various stations, and immediately proceeded to produce it. He originated the idea of arranging radio stations by wave-lengths and kilocycles. RADEX, the first radio log ever published, arranged its constantly increasing list of radio stations in three different ways; by

**RADEX Mourns
Its Chief . . .
but Carries On**



FRED C. BUTLER

kilocycles, alphabetically and geographically. The first issue appeared thirteen years ago. It was small in size and contained no editorial matter.

Improvements were made constantly and the magazine grew. Copies are now mailed to every civilized country in the world. It is relied upon for its accuracy and completeness by various governments and governmental bureaus. At the present moment RADEX is being transcribed into Braille for the blind by the American Red Cross. Many radio stations have instituted special programs in honor of RADEX and its host of readers.

In the death of Fred C. Butler,

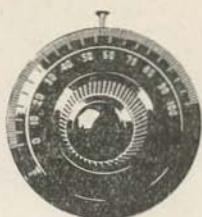
radio loses a master technician, a loyal and devoted friend, an ardent supporter.

But RADEX will go on! His policies will be faithfully continued under the direction of Mrs. Elizabeth Butler, who was connected with the publication for a number of years, and who is familiar with all its details. Page Taylor, B. Francis Dashiell, Carleton Lord and others who have contributed to the popularity and success of RADEX, will continue as in the past. They hope to serve their many readers as efficiently as Mr. Butler did; and it will be their endeavor to maintain the magazine upon the same high plane.

DECEMBER 1, 1936



RADIO INDEX



Reg. U. S. Patent Office

ELIZABETH S. BUTLER
Publisher

PAGE TAYLOR
Editor

ASSOCIATE EDITORS
B. FRANCIS DASHIELL, *Technical*
CARLETON LORD, *Broadcast*

THIRTEENTH YEAR

NUMBER 104

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WINTER NIGHTS Are Best For DX

• • • By B. FRANCIS DASHIELL

RECEPTION during the winter is always at its best. This remains true in spite of the fact that radio apparatus is now approaching mechanical and electrical perfection, and is able to give remarkable performance every day in the year. But winter reception, particularly at night, will always be best. The seasons tend to influence the various phenomena which control radio activities; man will never be able to change these.

From the first days of radio it has been obvious that the weather and seasons affect radio reception. In winter, when the weather is clear and cold, reception is good; and, in summer, when it is warm and humid, static is a great annoyance. But it is true that static also appears in winter. However, winter nights consistently provide the best radio reception that it is possible to find.

Blame The Weather

Summer heat, with its moisture and great, towering clouds, is the factor that creates most of our static. No person has been able to overcome this handicap. Summer static has always been in the air. Benjamin Franklin was the first to discover it, but it took radio to make static audible. Radio listeners know only too well that, regardless of how fine and costly their receivers may be, they must await the coming of winter before really good, clear reception from great distances is practicable. And what thrills may be experienced when good winter nights make DX signals pound in like nearby locals!

From late fall until early spring, radio reception is generally good. At times, however, during the cold weather of midwinter, we are surprised when reception is marred by

static, weak signals and fading. But, knowing the advantages of cold weather over the warmth of summer, we are willing to lose an occasional night by winter static. Winter is the season to make those long lists of DX stations, and try for verifications that would be considered impossible in the summer months.

Winter Static

Winter static is about the only thing that seriously affects good reception. Blanketing and fading come from a situation that exists high above, and are apt to appear just the same in winter or summer. Winter static is caused by conditions somewhat similar to those creating summer static, for it must



Helen Jepson, lovely prima donna of the Show Boat program with Lanny Ross, is heard on the NBC-Red network at 9 and 11 pm Thursdays. Miss Jepson was one of the first of radio's woman stars to be signed up by the Metropolitan Opera Company.

be remembered that the whole world is not being subjected to our own wintry weather. Two adjacent regions may be experiencing widely different temperatures. Tropical warmth may not be many hundreds of miles from clear and cold winter skies.

All static is not produced locally. When we realize the tremendous energy in a single discharge of lightning, it can be understood that static is broadcast over the land. Radio and lightning waves have similar characteristics, so, when the power of a broadcasting station is compared to the energy released by a single flash of lightning, we can see why static might be heard in sensitive receivers hundreds of miles away.

Changes In Weather

Scientists have estimated that many lightning discharges take place every second throughout the world. It is reasonable, therefore, to believe that thunderstorms in the warmer portions of the American continent would produce static sounds in radio sets farther north where cold weather exists. Experiments with radio compasses have indicated that static from storms can be heard as far as 1,000 miles away.

Situations that tend to disturb radio reception during winter are generally due to changes from clear and cold, to warmer and unsettled, weather. Static producing atmosphere then quickly appears, and almost before one can realize, local static comes hissing, clicking and grinding through the speaker. This winter static is unlike that of local thunderstorms, but is similar to the summer static that prevails during warm and humid weather. In winter, too, local thunderstorm static may occur, for it is not impossible to have discharges of electricity in the clouds accompanying squalls and snowstorms.

What About Blizzards?

Falling snow is a prolific source of static at times. Nothing in the atmosphere, except the violent tossing of rain drops at the top of summer storm clouds or sand and dust storms, can produce so much electricity. Frequently the flakes are charged with static electricity, and tiny discharges or impulses arise. These tiny waves carry only a short distance, and radio sets beyond the snowfall area are unaffected.

When the weather in winter is clear and cold, radio reception will be perfect. Local static is then at a minimum. But, occasionally, distant stations may fail to come in. This can be due a blizzard area over the transmitting station, but more often is caused by temperature differences existing between the sending station and the point of reception. Signal intensity seems to be governed to a large extent by the continuity of a cold-air area overlying the two places. This is based upon many hundreds of observations made by the writer over a period of nearly twenty years, as well as data compiled by other investigators.

Cold Wave Is Best

When the country is covered in winter by a great outflow of air from the polar regions, having considerable barometric pressure, a cold wave is said to have the country in its grip. Radio reception now is at its best, for the air is crisp, clear and dry. The cold temperatures are spread widely over the country. Chilling winds may blow, but gales do not interfere with the passage of radio signals. Neither do they produce winter static. Yet many people have the impression that there is a serious wind and air friction all about us. Dry winter air contains little matter, other than its own gases, that can produce frictional static.

(Please turn to Page 30)

DIALING Around The World

• • • With The READERS

ARE shortwaves more interesting than the broadcast band, or do the conventional frequencies offer the greater possibilities for interesting reception? These are questions that radio fans have discussed for years, and it is doubtful that they will ever be positively answered. RADEX is not going to try to solve the problem, but the readers of this magazine will have an opportunity of telling the world what kind of programs they believe are interesting.

We are not going to conduct an open forum so readers can express their opinions of the shortwaves vs. the broadcast band; we want our readers to write and tell us about the most interesting reception they had during the past month. This does not mean the most thrilling pick-up, but the most *interesting* Reception of FZR in Saigon, Indo-China on the shortwaves is an accomplishment to be proud of, but merely listening to the operator calling "allo, allo," is far from interesting. Reception of 2YA in New Zealand on the broadcast band has its thrills, but if the signal is lost in deep fades and the identity of the station practically has to be guessed at, it, too, lacks interest.

If readers will write us letters of about 250-300 words describing the most enjoyable program they have heard during the past month, two of the Associate Editors will chose the two best letters each month. The Broadcast Band Editor will pick the best one on broadcast band reception and the Shortwave Editor will select the best letter from a member of his clan. The two will then be printed side by side and all the readers of this magazine will be invited to select the best of the two. The



Edith Dick, pretty warbler on Harry Salter's new series of "Your Hit Parade and Sweepstakes" programs over the coast-to-coast Columbia Network each Saturday from 10 to 11 pm, EST. Edith is a native of Birmingham, Ala., and made her first radio appearance there. In the last few years she has been featured with several well-known orchestras, including those of Al Goodman and Carl Hoff.

writer of the letter selected by the voters will be given a one year's subscription to RADEX free. And the opinion of the readers will be final.

This competition will continue for one year, and everyone is invited to join in the fun. One does not need to be a good writer to take part as the letters will be considered as judgments of radio programs rather than on writing ability.

Let us hear from everyone. We want to learn if radio programs really are interesting.

Calibrating a Set

"I have a Peak Q5 receiver on which the dial is graduated from 0-100. I would like to know if this dial can be calibrated in kilocycles, and how it should be done." This question occurred to one of our readers and, thinking others may be interested in knowing how to calibrate receivers not already calibrated, we give herewith the complete instruc-

tions. Incidentally, those instructions can also be followed with receivers which are already calibrated in kilocycles, because most of them are not accurate.

A sheet of graph paper and an evening at the dials is all that is required. On the graph paper, the left hand margin will represent "Frequency in Megacycles," and the upper (or lower) margin, "Dial Settings." From left to right across the bottom of the graph, let each line represent one degree or mark on the dial. To spread out the graph, five lines, or ten lines, can be made to represent one degree of dial reading if the maker prefers, but to make this discussion simpler we will use the unit of one line to one degree.

From top to bottom on the left side, let ten lines represent 1000 kilocycles (one megacycle), starting at 6 megs. at the top, and continuing at intervals of one megacycle to each ten lines, as far as the sheet of paper will permit. To completely calibrate a receiver several sheets will be required.

Starting the Work

In the early evening tune in the vicinity of 9 megs. for some reliable

With this issue of RADEX we introduce to our readers a new type face. This is in line with the policy of this magazine to constantly improve the quality of its service to its readers.

The new type, known as Regal, has been adopted by several leading publications and newspapers because of its increased readability. If readers will compare the editorial matter in this edition with former issues, it will be found that the new letters appear to be slightly larger and more clear. Tests have shown that Regal is much easier to read than any other style of type of the same size.



Carl and Anne Eder of Willmar, Minn., send this photo of their radio den and their two receivers. Mrs. Eder is a very active DXer, being a member of the Chicago S. W. Radio Club and the Globe Circlers' DX Club

stations which are known to remain on their assigned frequencies, such as Daventry or Zeesen, W1XK, W2XAF or W3XAU. Suppose the first station heard is W1XK, which works on 9.570 megs., and its dial setting is 31 on the receiver. On the graph we locate the point where the line representing frequency 9570 crosses the line representing dial position 31. A dot is placed there, and we continue to tune. The next station heard is PCJ on 9590 and its dial is about 32½. The axis of the 9590 line and the 32½ line is carefully located and a dot placed there. A shortwhile later station GSC is located at dial reading 32, and the axis of those two lines is located and marked. EAQ on 9862 is found on the number 40, and plotted like the other transmitters. Being impatient to see what we have accomplished so far, we join all the dots we have placed by a continuous line, and note that the line makes a slight curve.

We have already accurately calibrated that part of the receiver, and if the same process is repeated from one end of the dial to the other, the entire receiver will be like an open book to us. We can tune to any desired frequency with the graphs so prepared.

With the fragmentary chart already made, it is very easy to locate

station TI4NRH, which is supposed to be on 9670 kcs. To find it, ascertain the point on the curve where the line representing frequency 9670 crosses the curve, which will be very close to the vertical line for dial reading 35, the approximate spot on the dial where TI4NRH will come in.

Vancouver Reports

From Vancouver, B. C., J. R. Lanyon sends us accurate information on a number of stations. "Realizing that RADEX strives for accuracy in its listings above anything else, I am giving only data which I can absolutely guarantee," states Mr. Lanyon, whose address is 614 Standard Bank Bldg. "The principal stations of the NIROM in Java, are **YDA**, Tandiong Prick, 3040 kcs., 10 kws; **YDB**, Sourabaya, 9610 kcs., 1 kw.; **PMN**, Bandoeng, 10260 kcs., 15 k.w.; **PLP**, Bandoeng, 11000 kcs., 1.5 kw. Another one heard here quite often is **YDE2**, Solo, 4810 kcs. with only 100 watts. All these stations have been heard well and are recommended.

"The schedule of **HS8PJ** at Bangkok, Siam, is Mondays on either 11950 kcs or 19020 kcs (usually the latter) between 1300-1500 GMT. (0800-1000, EST). This station is heard on 9350 kcs. on Thursdays at the same hour. On all transmissions announcements are made in Siamese, English and French, and news is read in English at 9 a.m. EST. The Engineer in Chief, Lt. Col. Phra Aram, advises me the power is 5 kw and that they will verify all reports.

"Station **HBO** at Geneva, Switzerland, moves to 11410 kcs. every Sunday night at 2130 and works with 3LR at Melbourne, Australia. **COCX** in Havana is heard on approximately 11460 kcs with tremendous strength lately, a great deal stronger than **COCH/COCD** or **COCQ**. Some tuners might be interested to know that I have experienced almost local reception from **PLP** and **PMN**

DX IS AT ITS BEST WITH TRIMM HEADSETS

Modern DX-ers know that the use of a Trimm Featherweight headset will bring in those illusive stations that are so desirable—and should it be late at night, the rest of the family can sleep in peace as well.

*Write for information on methods
of connecting to your set.*

TRIMM RADIO MFG. CO.

1770 W. Berteau Ave., Chicago, Ill.

at Bandoeng ever since early spring, but they are beginning to wane a bit now. **YDB** is almost as good and seems to be holding up better than either of the others. **ZBW**, Hong Kong, which was a regular visitor each morning up until August is now hardly audible after sunrise. The Australians were very poor during the summer, especially **VK2ME**, but they seem to be picking up now. I heard a station **9MI** at Rabaul, New Guinea, testing on the 25 meter band, but no sign of it has been heard lately. (**9MI** is the M/S Kanimbla, which Mr. Lanyon no doubt heard while it was sailing from London to Australia. Ed.)

A S. W. Special

Leo Hertz of Chicago has been appointed shortwave Editor of the Globe Circlers' DX Club. One of his first official acts was to notify us of special programs to be dedicated to his club by **TI4NRH** of Heredia, Costa Rica. The programs will be transmitted on 9670 kcs. every second Saturday night between 11:30 pm and Midnight, EST.

Oliver Amlie, President of International 6000 to 12,500 Mile Radio Club, notifies us that his Club, in cooperation with many manufacturers, is sponsoring a radio contest which will run for two years. The contest

will be open to everyone who tunes, whether they be amateurs, short-wave or broadcast band fans. No details were forwarded us on the manner in which the contest will be conducted nor the nature of the prizes, although Mr. Amlie assures us the prizes will be very much worth-while. We understand fuller information will be available soon and urge our readers to watch this magazine for further details.

Typical Venezuelan

"I heard a new station on 6350 kcs with the call letters **YVIRG** and **YVIRH**, Emisora Philco, Maracaibo, Venezuela," submits J. Herbert Hyde, Elmwood, Conn. "This station, according to announcements I heard, operates on 1120 and 6350 kcs. They stated that this special transmission was for American listeners and that they would be glad to receive reports and send out their verification card. I first logged them about 11:36 pm and they left the air at 11:50 pm. At approximately 11:47, chimes were sounded, after which the announcer said it was 12 o'clock sharp in Maracaibo. The program consisted of typical Venezuelan music. The signal was very loud, perfect readability, fair modulation and some rather rapid and shallow fading was noticed."

A confirmation of reception has been received by Fred L. Van Voorhees, Box 125, Miller Place, N. Y., from the Portuguese station **CSW** at Lisbon. The frequency is given as 9.550 megs and the power as 5 kilowatts. Good reception is obtained between 1600 and 1900, EST (4 to 7 pm).

Further information on **CSW** comes from J. L. Steele, Denville, N. J. He writes, "CSW, the new station of the National Broadcasting Co. of Portugal, is transmitting on an announced frequency of 9.960 megs. It is heard in the evenings with an R8, QSA4-5 signal, but it is badly QRM'd by code. English is

spoken frequently by a lady, who gives the call letters as 'C-Canada, S-Spain, W-Washington.'"

According to other reliable sources, the frequency of **CSW** is 9740 kcs, which is just half way between the widely varying frequencies given by our two reporters.

From Sydney, Nova Scotia, comes a third letter about **CSW**, but the writer, who signs "Radio Fan," does not give a frequency. He reports a shortwave station under construction in his city, saying it will be on the air this winter. Program from **CJCB** will be relayed from 7 am to 1 pm and from 3:30 pm to midnight, EST.

Japanese Broadcasts

The Broadcasting Corporation of Japan is now sending out monthly program releases printed in Japanese and English. Programs for their Overseas broadcast are selected with care designed to appeal to the greatest number of listeners. The program material covers their national culture, news of the day, Japanese music and folk-songs, drama, eye-witness accounts of athletic events and other subjects. In short, the broadcasts present a complete picture of Japan of the present and of the past.

This corporation desires to do its best to provide its overseas listeners with program material and reception of the greatest value. They stress the fact that any suggestions the radio audience may make in regard to program material and technical observations will be greatly appreciated. The address of the company is Overseas Section, Broadcasting Corp. of Japan (Nippon Hoso Kyokai), Hibiya Park, Tokyo. At present programs are broadcast on **JVH**, 14600 kcs., from midnight until 1 am daily EST.

Mr. A. I. Breen, Secretary of the New Zealand DX Radio Ass'n., informs us that the call letters **ZMBJ**.

(Please turn to Page 31)

A Christmas Gift that comes ten times a year

Make up your gift list now.

Give RADEX to your friends for a year around reminder of your affectionate thoughtfulness. Remember especially the shut-ins to whom radio is a chief joy.

An attractive Christmas Gift Card will be sent to announce on Christmas Day your name and gift. Or we will mail the cards direct to you to be forwarded with a message in your own writing, *if you so request.*

Special Christmas Rates

(Good only until Dec. 31, 1936)

The subscription price of RADEX is \$1.75 per year. At this time only, we will accept subscriptions three for \$4.50, two for \$3.25, or one for \$1.75. Each year that you order counts as one subscription. Your own subscription (new or renewal) may be included at these rates.

Christmas Order Form

The Radex Press, Conneaut, Ohio.

Please enter the following subscription to RADEX and send Gift Announcements for Christmas Day.

Name
Please print
Address New
Renewal
City State 1 or 2
Years?
Send Gift Card to recipient Send Gift Card to me

Name
Please print
Address New
Renewal
City State 1 or 2
Years?
Send Gift Card to recipient Send Gift Card to me

And enter my own subscription (new or Renewal) at the special Christmas rate for year(s).

I enclose \$..... in payment.

Name of person sending order.....

Address

In the Wee Hours with the Radexers

••• By CARLETON LORD

OCCASIONALLY in the course of an evening's DXing, listeners run across a very weak signal which may be difficult, if not impossible, to identify. The station may be so faint that only its carrier and a trace of its program may be audible. The program itself may be recorded, but interference or static may prevent positive identification.

What to do in such a case has long been a mooted point in the DXing fraternity. Some listeners claim that consideration of all of the factors may lead to the logical assumption that only one station within range of the receiver would be broadcasting a given program at a certain time. Others hold to the

view that reception should not be claimed unless a definite identifying announcement has been heard.

As we see it, the matter depends largely upon the action to be taken. There seems to be no particular harm in writing to a broadcaster if the listener definitely states that he *believes* he heard the station and asks confirmation of the fact. Also, we would hardly condemn a DXer who frankly states that he heard a station which *sounded like* XYZ in Timbuctoo but was unable to get a definite announcement.

But, it is quite another thing to come out and claim reception of a station with no more authority than a call book which shows a good catch on a certain frequency.

Last spring we carried a report which listed a number of foreign stations which had been heard during the previous season. Recently we received a letter from a reader in Australia commenting upon this report. One of the stations claimed had started its test programs on June 25th of this year, at least two months after reception had been claimed. Another station, at the date of writing, had not yet come on the air. Our Australian friend would like to know what evidence our correspondent can submit in support of his claim of hearing these two stations. So would we!

We frankly admit that our March, 1936 indices showed these two stations on the reported frequencies. We included them when we were advised that construction permits had been granted and, like the chap who reported them, we had no way of knowing that they would take so long in coming on the air.

However, that cannot excuse a listener who claims credit for hear-



Andy Gump, the favorite of millions, is now "wired for sound." Andy, together with his wife, "Min," and son "Chester," are heard over the CBS Mondays through Fridays from noon to 12:15 pm EST.

ing a station which does not exist. If he had not been sure of his reception, he should have qualified his report.

As a result, American DXers in general and this listener in particular suffer a black eye in the opinion of our friends Down Under.

Picture Pages

"Why not have a special page for the DX fans," queries R. A. Butts, c/o Cabin Creek Lumber Co., Easton, Wash., "and publish the pictures of all the DXers? There must be hundreds of readers who have snapshots of themselves and their radio dens. We all like to know what the other fellow looks like, especially when we've been reading of his DXing. So what do you think?"

We think it's a grand idea and we'll provide the page if the readers will provide the pictures.

"I'm writing in the hope that DXers who read RADEX will have a chance to do something for themselves," greets Morton W. Blender, Senior Announcer, Station WCOP, Boston, Mass. "We are contemplating a DX tip program on this station, but we have a management which is a little skeptical about the popularity of such a presentation. If the DXers in New England would be interested, drop a card or letter to 'QRB' in care of the station. Let's get together and add another station to the growing list of DX tippers."

We believe that there is a need for a regular DX tip period for listeners in New England and we are glad to learn that a station up that way is willing to be shown.

"On Saturday morning, December 19th, KVI will broadcast a program from 3:00 to 4:00 AM, EST, for the Universal DX Club," advises H. J. "Mac" McAllister, announcer. "The latter part of November, we will be testing our new 5-KW transmitter between 3:00 and 9:00 AM,



Ollie Ross, Director of the URDXC, made a trip around the world a few years ago and visited many of the hundreds of radio stations he has heard. A small European country made him a Count so now he is "Count Alexis."

EST. Reception of these tests, which will take place every night over a two-week period, will be verified. Incidentally, will you remind readers that most stations cannot truthfully verify any network program? I get any number of such requests."

G. E. Booster

"I have just bought a new 1937 General Electric 15-tube receiver," supplies Robert D. Haseltine, Box 30, Black Earth, Wis. "For someone who wants tone quality, selectivity, sensitivity and power, I can certainly recommend this receiver. I appreciated your article on aerials. I have done quite a bit of experimenting with sky-wires and find that the V-doublet has given me best



Nelson Eddy, popular baritone of stage, screen and radio, is the host of "Vick's Open House," the new CBS program heard Sundays from 8 to 8:30 pm, EST. Francis White, soprano, and Josef Pasternack's orchestra are featured with Eddy.

results. I would like to hear from other users of G. E. receivers."

"I am now starting my third year of DXing with a 5-tube Atwater Kent Model 145," submits Walter C. Snyder, 1401 Logan St., SE, Grand Rapids, Mich. "During the past spring and summer, I heard and verified TGW, KIEM, CMCQ and KLZ. I agree with DXer Patterson that all reports should include the make and model of the receiver used, as this gives the other listeners a chance to compare results fairly."

"DX has finally opened up here on the broadcast band," writes Roy Myers, 4506 St. Elmo Dr., Los Angeles, Calif., "for the first time in about six months. Several Japs are being heard testing on their new frequencies, while some other Orientals are beginning to push through. It is too early for the

South Americans, although lots of whistles in back of American stations show that they are there. I have hopes of hearing at least a dozen this year."

"CMQ does verify," states Billy Snow, 302 Harrington St., St. Joseph, Mo. "They replied promptly to a report which I sent and put out a very fine card. WBNX was heard testing on September 20th with one kilowatt power. Our local KFEQ is expecting to spend several thousand dollars for erection of a vertical radiator antenna and for improvements on the transmitter, but no increase in power is expected."

"So far my log stands at 426 stations heard," indicates R. S. Phair, 754 Franklin Turnpike, Allendale, N. J., "and 198 of these are verified. Among the verifications are W1XBS, W2XR, WPRP, WBNY, KLUF, WCML, KROC, WMFG and WJIM, which only rate a 'z' in the second column."

Likes Mystery Contest

"I am sure that the coming contest will be welcomed by all DXers," asserts E. L. Peters, Box, 65, Westport, N. S. "The previous contest admittedly favored the mid-Western DXers. The power and mileage basis seems the only logical way in which to conduct future contests of this type, although this will undoubtedly require more work on the part of the judges. Your idea about standard report cards is a fine one, while the place prizes will give even beginners a chance to win an award."

"One of the things that puzzled me last year," admits Bill Cunningham, 528 N. Marengo Ave., Pasadena, Calif., "was what to do about KFAC when the contest was on. For me, they block everything from 1280 to 1310 keys. Do you think it could be arranged for KFAC to go off at midnight for the duration of the contest?"

We wish it could be arranged to have some of the all-nighters stand by occasionally, Bill, but we're afraid that it will never be accomplished. However, when we line up the stations for the Mystery DX Contest this year, we'll do our best to choose only the stations which can be received by a majority of the contestants.

A great deal has been written about the possible repetition of the contest. Criticisms and suggestions have been received and given in these columns.

As this issue goes to press, we are going ahead with our plans for the staging of another contest. If we receive the necessary cooperation and support, the repetition will be assured.

In the September and October issues, we presented the proposed

changes in the contest rules. Most important of these was the scheme whereby mileage becomes an important factor in the scoring, with the awarding of bonus points for stations more than 2000 miles distant from the listeners. We believe that this, together with an attempt to line up a more representative group of stations, will eliminate any advantages in location.

Unless further suggestions are received, we may consider the question of rules and regulations settled for this year.

Among the Stations

"KGDY comes on the air at 6:15 AM, CST," notes Mrs. A. C. Johnson, Box 230, Henry, S. D., "and goes off at 5:45PM. They have a frequency check from 3:00 to 3:30 AM, CST, the first Sunday of every month. Station KABR has asked for an increase in power from 100 to 1000 watts. If the request is granted, they will be the second largest full-time station in the state."

"Our local station WMFG," notes Francis de Champeau, 2830 Fifth Ave., Hibbing, Minn., "has increased its power from 100 to 250 watts. They promise to verify all correct reports for return postage."

"We would like to present four DX programs during the fall and winter season," states J. G. Andrews, Program Manager of Station CFLC, Prescott, Ont. "Our last DX was not the success it might have been for the reason that Station CKPR was on the same channel all night. Some of our friends advised us that they could not get either station satisfactorily. We should like to reserve the hours of 2:00 to 5:00 AM, EST, on December 27th, January 30th, February 27th and March 27th.

Carrying on with the policy established last season, RADEX is pleased to dedicate this issue to the Universal Radio DX Club, Charles C.



Warren E. Winkley, Director and CPC Chairman of the Universal Radio DX Club.

Norton, president. The URDXC is this month celebrating its third anniversary. Articles by President Norton and his associates appear elsewhere in this issue.

A reader in Sydney, N. S., recently sent us a sum of money.



The Log Cabin Dude Range program on the NBC Blue at 8 pm Tuesdays stars Louise Massey and her Westerners. Louise takes the part of a ranch owner in the script and, having been raised on the K-Bar Ranch in New Mexico, she has no trouble entering into the spirit of her radio program.

Perhaps this was intended as a contribution to our Good and Welfare Fund. If so, we hasten to extend thanks to our friend. However, we suspect that he wished to purchase something, although he neglected to state just what he wanted. We'd ask him this little point, only he forgot to give his name and address. It's all very complicated and we wish he'd write us again, identifying himself with mention of the exact amount of money which he sent.

"Using a 7-tube Brunswick Model 15, I started DXing in October of 1934," admits Tom Black, 143 Car-

roll St., Pittston, Pa. "At present my log shows 608 stations. Among the best verified catches are Radio Normandie, LR1, LR4, LS2, 4YA, TGW, HIX, VAS, CMBC, CMHJ, KIEM, KGU, KNET, KOL, WPRP, WJAG and CJCB. Although I haven't heard any Japs so far, I hope to verify at least one of them during the current season. About two weeks after my TGW veri arrived, I received a sample of Guatemalan coffee from the Minister of Agriculture. I prize this sample very highly."

They were nice souvenirs, Tom, but did you ever try to drink some of that coffee?

More on Aerials

"I have been using 200 feet of aerial wire arranged like three spokes of a wheel," informs Lloyd Harrison, 130 S. Hague Ave., Columbus, Ohio. "The lead-in is taken from the center where the three spokes join. This gives me an antenna which receive equally well from any direction. I get a good ground with a 9-foot iron stake connected with a 2-foot piece of heating pipe. Both are driven in the ground and kept moist.

"Last April I bought an 8-tube Silvertone Model 1965. This has four times the punch that my old McMillan had. The set certainly has power. Last spring I logged such stations as KFXD, KOOS, KXRO—it was daylight here before KXRO faded away—and other 100-watters on the Pacific Coast with only one-quarter volume. Under good conditions, what will it do with full volume?"

In connection with the article on aerials published in the September issue, we have received a great many queries on individual antenna and ground problems. These have been answered as rapidly as possible, although the number of letters has prevented the service for which we ordinarily strive. The few

remaining letters are now in the hands of Mr. Dashiell and we are sure that they will be answered long before this issue appears.

We might mention that Mr. Dashiell is more than glad to receive questions on problems which may be troubling readers. So far, he has managed to give a personal reply to every inquiry and will continue to do so as long as possible. Some readers may have been under the impression that questions were only answered through his regular columns, although he has been choosing only those which may be of general interest to Radexers. All questions should be addressed to him in care of the magazine and we only ask that return postage be enclosed.

The I.C.C.P. Continues

In the October issue, we reported that the future of the Inter-Club Cooperation Plan was in some doubt. At the time we went to press, Miss Emily Griswold, operator of the Clearing House, had received acceptances of the Plan from but one club, the GCDXC. The IDA had not then decided upon its plans for the season, while the NNRC, CDXR, NRC and URDXC. had not replied to a questionnaire sent out over two weeks before.

We are indeed glad to report, therefore, that the Plan is going ahead for another year. Clearing House bulletins commenced on September 24th and already a string of specials are lined up for the winter months.

A study of dedicatory programs listed in the first four reports shows a decrease in series of broadcasts from any one station. We have mentioned many times in the past that weekly and semi-monthly schedules are unfair to stations and listeners alike. Members of clubs to whom the programs are dedicated are obligated to report to the stations, and yet they cannot be ex-

pected to spend all of their time writing to a selected group of broadcasters.

The nearest thing so far to such a series is the monthly schedule of programs lined up by the NNRC for KFRO, Longview, Texas. Oddly enough, it was only last month that the KFRO president, James R. Curtis, remarked that reports had fallen off during their second winter series and that, unless the mail response was better on their first program this year, they would plan no more special broadcasts.

It seems to us that there are but two primary purposes for DX programs. The first and, from a DXer's standpoint, the most important is to give listeners an opportunity to

(Please turn to Page 33)



Shokichi Yoshimura of Moji, Japan, is the Asiatic Representative of the URDXC, and sells automobiles when he isn't busy tuning in stations in every part of the world.

PROBLEMS of INTEREST

To Our Readers

• • • By the TECHNICAL EDITOR

I have put new tubes in my Philco model 90 and balanced the tuning condensers. However, I find that the higher frequencies gradually decrease on the dial from 1040 to 1490, which now comes in on 1410. I would appreciate a little more information on tracking this set. Does adjusting the oscillator trimmer shift the stations to the proper readings on the dial, without disturbing the balance of the trimmers? There are three condensers adjustable through holes in the top of the chassis, also one at the right-back of the chassis. Please give me their positions and functions. Is one of these condensers the trimmer for oscillator?

(Answer) Shifting of the frequencies of the high end of the dial often is due to creeping of the oscillator frequency. A new tube may remedy this trouble. Otherwise an examination of the oscillator coil and condensers, with a cleaning and careful drying, is in order.

However, it is obvious that this set is out of adjustment and needs re-tracking. Of course, your serviceman is better fitted to do the work, and his services are recommended. It is best to use an oscillator to do the work, as this is the only practical method. You can do the work yourself with the proper unit. Set the receiver up for normal operation. Remove the shield from the I-F type 24 tube. Remove grid contact from 1st detector tube. Attach "A" terminal of the oscillator to the grid top of tube. Connect "G" terminal to the chassis. Set the tuning of the oscillator to exactly 175 kilocycles. Turn on receiver volume control to full strength. Connect the

output meter to the voice coil terminals of the set.

With a fiber wrench adjust the second I-F secondary condenser (rear of chassis close to right-rear of tuning condenser gang) for maximum intensity in output meter. Adjust first I-F secondary trimmer (in rear of chassis-side under type 24 tube) and the first I-F primary condenser (through top of chassis to right of rear of tuning gang and between rear 24 tube and shield-can) for maximum reading in meter. Replace the grid clip on the first detector tube and replace the shield.

Connect "A" and "G" terminals of the oscillator to antenna and ground posts of the receiver. Tune the receiver to 140 on the dial and adjust the high frequency compensator (trimmer on left-top of third tuning condenser of the gang, reading from the front) for maximum reading in output meter.

Without change, set the detector and antenna condensers (trimmers on last unit of gang, and on first two units, respectively) for maximum reading on meter. Now set the dial to 60 for the low scale of the broadcast band and adjust the low frequency trimmer (through hole in chassis at right of third-from-front tuning condenser in gang unit) for maximum output in meter. Repeat this adjustment until the station being tuned in on 60 or nearby comes in exactly on its proper frequency.

We believe that these instructions will enable you to readjust this Philco 90 so that all stations come in on their proper frequencies. The instructions also answer your quer-



Charles C. Norton, President of the Universal Radio DX Club.

ies as to the location and name of the various trimming condensers. Adjust on the 140 figure of the dial, to an actual station in that vicinity, and you should correct the off-dial readings now being experienced on the high-frequency end of the dial. It may be that at the time this adjustment is made, you will find it necessary also to readjust the detector and antenna condensers (3 in all) as described in the second paragraph immediately above this.

There are different models of Philco 90, but the chassis adjustments are essentially the same regardless of the type and number of tubes used in the power output. The foregoing instructions may apply to both model 90 and 90A.

Recurring Hum

I have a 1936 18-tube Midwest radio which has given me some

tube trouble. Since I purchased the set I have replaced a number of the tubes, but the trouble still persists. Is this due, do you think, to the use of metal tubes? If I use the similar glass tubes would the trouble be eliminated? The trouble is that a very loud hum comes, and it builds up louder and louder for about five minutes and then suddenly disappears. Then it repeats immediately, over and over again, without end. How can I remedy this trouble?

(Answer) Have you taken this matter up with the Midwest Service Department of the factory? A new and modern set of this style should not develop such annoyances because of some fault in its design. We feel certain that the manufacturers can advise you. However, you state that you are using metal tubes. These tubes are being more widely used every day, but there is still some difficulty being experienced in certain quarters. If we understand correctly, the Midwest people do not arbitrarily provide their sets with metal tubes, but instead recommend the Octal glass tubes. They will, however, insert the metal tubes, if ordered. It is likely that a microphonic metal tube is causing this trouble, but it should be easily located and replaced. We cannot understand why you have replaced so many tubes, but this is hardly the fault of the set. Metal tubes, as we have said, still are not accepted by all radio experts, except in certain receivers.

Hum that builds up, such as you are experiencing, most always is due to vibration or microphonics. Perhaps some fault in the cabinet or speaker mounting causes vibration that sets one or more tubes to vibrate internally. Check over these parts; set the chassis on rubber; slightly loosen the speaker bolts; move the set away from the wall so as to provide more air space in the rear; and examine generally for the cause of this resonance.

Of course, there are many other causes. A defective filter condenser or a poor contact or connection that varies with temperature or vibration. Poor contacts may be within a condenser, for they are not limited to external, soldered joints. Induction between certain wires and adjacent choke coils or audio transformers, cause hum, but usually it is of a steady nature. Recurring hum seldom appears because of this defect.

Tone Control

I have a 1935 Silvertone 5-tube A.C.-D.C. compact set that uses types 75, 6A7, 6D6, 43 and 25Z5 tubes. However, I should like to install a tone control of the grid circuit type or the octave tone control condenser type. Which would be the best to use and how is it connected? If a more effective method is available for this receiver, please tell me about it. L

(Answer) There are many types of tone controls that can be used with a radio receiver. The types you mention can be procured from any radio supply house and operate in certain grid circuits. Frequently instructions accompany the unit, and connection is a simple matter for an experienced serviceman.

We should like to call attention, however, to the power tube used in this set. It is a type 43. We think it may be best to control the tone at this tube, and in its plate circuit. In this way the connections can be made by yourself if you take care to locate the proper contacts on the 43 power-tube socket. Connect to the plate contact of the tube a 0.1 mfd., 400 volt, bypass condenser. To the free end of the condenser attach one terminal of a 50,000 ohm variable resistance volume or tone control unit. The end of the control, that which attaches to the knob, should be connected to the screen-grid terminal of the 43 tube socket. Also, between the screen grid con-

tact and the plate contact, shunting the tone unit just described, you might place a .0005 mfd., 600 volt, condenser. This might not be necessary. Remember that both the screen and plate terminals at the socket carry high voltages, and the wiring and knob should be carefully insulated and placed.

On One Aerial

I have a 7-tube DeForest all-wave battery set and also a small 11-year-old regenerative set connected to the same aerial and ground. This latter set is upstairs while my new set is on the first floor. When a signal in daylight is practically inaudible on the new loud speaker I can bring it to fair volume by tuning my old regenerative set to the same station. Can you explain what causes this, for the little regenerative set has only two tubes while the large one has seven tubes? Also, when my all-wave set is switched on the short-wave band, it reduces the volume of the little regenerative set upstairs to almost nothing, but this effect is hardly noticeable when the broadcast band is being used.

(Answer) This is an interesting case, and illustrates full well why it is not good practice to use two sets on one antenna, unless the latter is of the doublet type with individual transformers at each of the sets. You should use two separate antennas, and the one attached to the regenerative set should be short and as far away from the 7-tube set antenna as practical. It also should be at right angles to the second antenna.

When you tune the two-tube regenerative set, which has no pre-selector stage, it also acts somewhat as a transmitter and re-radiates the signal that is being received. This reradiated wave passes by way of the antenna into the 7-tube set when the latter is tuned to the same frequency, and tends to boost up the same signal that is

being received by the larger set. Regenerative sets are extremely sensitive, and if it were possible to operate them easily and without the usual squeals and oscillations they still would be in high favor.

When the all-wave set is tuned to the short-waves, there is a very low impedance circuit between the antenna and the ground. It is almost a short circuit for the longer waves, such as those on the broadcast band. Therefore, the broadcast waves, to which the regenerative receiver upstairs, but on the same antenna, is tuned, have already leaked through the all-wave receiver circuits to the ground, and therefore seem very weak on the longer wave set. When both sets are tuned to the same frequency on similar bands, both have about the same A.C. resistance to the passage of that wave, and neither suffers at the expense of the other. Both sets get their proper share of the signal being induced in the antenna.

Background Stations

I have a Stromberg-Carlson No. 19 receiver. It has a bad annoyance that no one has been able to remedy. In the background of a station that is being received I will hear a second station very faintly. When there is a pause in the program I always hear another program. Can you give me a reason for this performance, and a way to correct same? Otherwise the set is very good, it has sharp tuning, and all stations seem to come in at exact marking with exception of a few which are just a bit off. It also seems that a change of atmosphere affects the tuning.

(Answer) This trouble is frequently met with in superheterodyne receivers. Mostly it is caused by some maladjustment in the oscillator circuit, whereby a second station, which has a frequency in mathematical proportion, can be heard in the background of the

station to which the set is tuned. Sometimes these things simply cannot be remedied, for the intermediate frequency of the set is such that certain combinations most always exist. Your set has an I-F of 175 kilocycles. If a serviceman could readjust the set to change this peak frequency a few kilocycles off to either side, it might help. However, such changes also alter the tuning and a general realignment would be necessary to get the stations back on their proper dial numbers. This change is recommended only as a last resort.

Often this is case of heterodyning between the two stations, for both enter the first-detector and oscillator stages. It also often occurs when the intermediate frequency of the set is some multiple of ten or



James B. Wooten, one of the Directors of the URDXC.

five. For instance, the received station might operate on 700 kcys. The set is peaked at 175, so the oscillator is automatically set on 875 kcys. The difference between 875 and 700 being 175—the I-F of the set. Now, if some other outside signal of, say 870 or 880 kcys., enters the mixing circuit, through harmonics or defects, it will also beat against the received 700 kcys. signal, and mix with the 175 I-F of the set. This heterodyning may appear as a whistle or as the undesired signals in the background, between station announcements.

All this may be due to incorrect location if the antenna lead is too close to the mixer system. An excessive strength of the interfering station may force its signals into the set by impact excitation. If there is an incorrect trimmer adjustment in the radio-frequency and mixer stages the trouble also may occur. Any undesired coupling between the R-F and mixer circuits, or pickup by the mixer tube circuit from strong signals because of poor shielding, often causes this effect.

Your set uses a type -35 R-F tube, a -35 first-detector or radio-mixer tube, and a type -27 oscillator tube. All three are within a single shielded box. Check this shielding carefully and make sure it is perfect. The shielding of the I-F parts and circuits, particularly coils, must be perfect or otherwise pickup may occur. Unfortunately, there is no shielding over the type -35 intermediate-frequency tubes in this receiver.

We are going to suggest a careful check of the oscillator circuit and parts. You mention that weather, especially dampness, seems to have some effect. This often is quite true. Remove the oscillator coil assembly. Turn the chassis over, with the tuning controls away from you, when you look down upon the bottom. At your lower right is the bottom of

the -80 rectifier tube socket. You will see the tops of four copper shield cans in the center of the chassis. The lower-right can covers the oscillator coil unit. The oscillator and mixer tube sockets are just to the right of this shield. Unsolder all contacts to this coil, after the can is removed, being careful first to make a sketch so there will be no mistake in replacing the unit and terminals. Place the coil in a warm oven (not hot) for several hours. Turn off the heat and allow the oven to cool overnight with the coil in it. Paint the coil with a thin coating of insulating shellac or wax preparation, and allow to dry again in slight, dry heat. Replace and cover with the shield.

You also might try drying all the remaining three coils in the same manner, but without painting. The upper right coil is the R-F unit between the R-F tube and the mixer tube. The two left-hand cans contain the two antenna coupling coils and are not so important in this case. It is likely now that the set will need a complete realignment, best done by a serviceman and oscillator equipment. New tubes, of course, in the radio, mixer and oscillator sockets, are always to be considered.

Pre-selector From Victor

As I have an R.C.A. Victor 8-tube superheterodyne and a Midwest 18-tube set, I am wondering if I could make a pre-selector of the old Victor to work with the Midwest receiver.

It is next to impossible to build a pre-selector from the parts in the old Victor. The values of the parts in the set would not be correct for a modern pre-selector to be used with an all-wave set of the power and sensitivity of the 18-tube Midwest receiver. We suggest, instead, if you are anxious to build your own unit, that you consult the June issue of RADEX, page 31, for details of

(Please turn to Page 30)

Where to Get the DAY'S NEWS

The time given in these news flash schedules is daily except Sunday unless otherwise noted.

- 1 Thursday only
- 2 Sunday only
- 3 Monday only
- 4 Except Monday
- 5 Except Saturday
- 6 Tuesday and Friday
- 7 Tues., Thurs. and Sat.
- 8 Mon., Wed., and Fri.
- 9 Saturday only
- a Including Sunday
- b Tuesday and Wednesday
- c Tues., Thurs. and Fri.
- d Thurs., Fri. and Sat.

ATLANTIC TIME

8:00 a.m.	CFNB 550	Noon	CJCB 1240	CHNC 1010
8:15 a.m.	CJCB 1240	12:30 p.m.	CHNC 1010	5:30 p.m.
8:30 a.m.	CHNC 1370	12:45 p.m.	CFNB 550	CKCW 1370
8:30 a.m.	CHNC 960	1:15 p.m.	CKCW 1370	6:00 p.m.
10:30 a.m.	CHNS 930	5:00 p.m.	CFNB 550	CJCB 1240
11:00 a.m.	CJCB 1240		CHNS 930	7:00 p.m.
			CHNS 930	7:15 p.m.
			CHNS 930	7:30 p.m.
			CHNS 930	7:30 p.m.
			CHNS 930	7:30 p.m.

EASTERN STANDARD TIME

6:30 a.m.	WORC 1280	WGR 550 ²	WALR 1210	WGBI 880 ²	1:55 p.m.	WRUF 830	5:00 p.m.	6:10 p.m.
WWJ 920	WORL 920	WHDH 830	WBAL 1060	WGH 1310	2:00 p.m.	CJCB 1240	WDEV 550	WSPD 1340a
7:00 a.m.	WPRO 630	WJAY 600	WBZ 990	WHKC 640	2:00 p.m.	WDEV 550	WGR 550	6:15 p.m.
WBZ 990	WSOC 1210	WPG 1100	WDBO 580	WJAS 1290	2:00 p.m.	WDEV 550	WGR 550	CJCS 1210
WCOP 1120	WSPA 920a	WQAM 560	WDEV 550	WNBX 1260	2:00 p.m.	WFDF 1310	WMAL 630	WBT 1080
WDEV 550	WSPD 1340	WSPR 1140	WELL 1420	WOR 710	2:00 p.m.	WICC 600	WNBC 1380	WCHA 1440
WJR 750	WTAG 580	9:55 a.m.	WESG 850	WOR 1320	2:00 p.m.	WKBW 1480	WORL 920	WDEL 1120
WLS 870	WTIC 1040	10:00 a.m.	WFDL 1310	WQAN 880	2:00 p.m.	WOV 1130	WOV 1130	WEAF 660
WORL 920	WTNJ 1280	10:00 a.m.	WFLI 560	WRVA 1110	2:00 p.m.	WQAM 560	WEAF 660	WEAF 660
7:15 a.m.	8:15 a.m.	WBAL 1060	WHDH 830a	WWJ 920	2:00 p.m.	WSAZ 1190	WJAS 1290	WORK 1320
WHDH 830	KDKA 980	WCOP 1120	WHIO 1260a	12:35 p.m.	2:45 p.m.	WSPR 1140a	WORK 1320	
WNBX 1260	WCSC 1380	WDEV 550	WIP 610	12:40 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:20 p.m.
WSAZ 1190	WDBJ 930	WFDF 1310	WIS 560	12:40 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WSPR 1140	WDBO 580	WFIL 560	WKBW 1480	12:40 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
7:25 a.m.	WEAF 660	WKBW 1480	WMMN 890	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WBAL 1060	WIP 610	WMAZ1180 ²	WOKO 1430	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WGY 790	WIS 560	WMCA 570 ²	WORC 1280	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WKRC 550	WMMN 890	WNBH 1310	WORL 920	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
7:30 a.m.	WOKR 1320	WNYC 810	WQAM 560	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WCMI 1310	8:30 a.m.	WOR 710	WSOC 1210	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WHKC 640	8:30 a.m.	WORL 920	WSPA 920 ²	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WMBC 1420	8:30 a.m.	WSOC 1210	WSPD 1340	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
7:35 a.m.	WLS 870	10:15 a.m.	WXPZ 1240	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WICC 600	WMCA 570	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WXYZ 1240	WTFI 1450	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
7:40 a.m.	8:45 a.m.	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WPTF 680	WEAN 780 ²	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WWNC 570	WNAC1230 ²	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
7:45 a.m.	WORC1280 ²	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
CFCF 600	WRUF 830	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WBEN 900	WSPR 1140 ²	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WDRC 1380	WTIC 1040 ²	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WEEI 950	8:15 a.m.	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WJAY 610	WEAN 780	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WNBC 1380	WSPD 1340	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
7:50 a.m.	9:00 a.m.	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WMAZ 1180	WABY 1370	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WQAM 560	WAZL 1420	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
7:55 a.m.	WBEN 900	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WFIL 560	WDEV 550	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WJZ 760	WGR 550	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WRVA 1110	WMAL 630	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
8:00 a.m.	WMFF 1310	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
CFRB 690	WORL 920	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
CJCS 1210	9:15 a.m.	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WBT 1080	WBRE 1310	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WDAE 1220	WNBC 1380	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WEAN 780	9:30 a.m.	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WEBR 1310	WDRR 1330	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WFDF 1310	WMCA 570	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WGBI 880	9:35 a.m.	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WHIO 1260a	WMAZ 1180	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WHK 1390a	9:40 a.m.	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WJAS 1290	WKRC 550	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WNAC 1230	9:45 a.m.	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.
WOR 710	WCOP 1120 ²	10:15 a.m.	WYBZ 790	12:45 p.m.	2:45 p.m.	WSPR 1140	WGR 550 ²	6:25 p.m.

7:05 p.m. WCSC 1360a WMAZ1180 ²	WTFI 1450 8:00 p.m. WELL 1420 WDFD 1310 WKWB 1480 8:15 p.m. WCAP 1280 9:00 p.m. CMCD 950 WAZL 1420 WFBC 1300 WMCA 570 ²	WGH 1310 WGR 550 9:15 p.m. RMCA 570 9:30 p.m. CMJK 780 9:45 p.m. WOKR 1320 10:00 p.m. WBRE 1310 WDEL 1120 WDFD 1310	WGBI 880 WGR 550 WMAL 830 WNBH 1310 10:30 p.m. CKCK 1010 CMCD 950 WDBJ 930 WEBR 1310 WGR 550 ² WMMN 890 WSPD 1340	10:45 p.m. CKCL 580 CRCM 910 WDCA 1440 WMCA 570 11:00 p.m. CFRB 690 KDKA 980 WBEN 900 WBT 1080 WBZ 990 WCAE 1220	WCSC 1360 WDVAE 1220 WDBO 580 WDRB 1330 WEAF 660 WEAN 780a WEEI 590a WFIL 560 WGY 790 WHIO 1260a WIS 560 WJAS 1290	WJR 750 WKWB 1480 WKRC 550a WMCA 570 ² WNC1230a WOR 710a WPC1120a WPMO 630 WQAM 560a WRVA 1110 WSOC 1210	WTAG 580 WTIC 1040a WVNC 570 11:10 p.m. WOKO 1430 11:15 p.m. WHK 1390 WICC 600a WJZ 760 11:45 p.m. WIP 610
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CENTRAL STANDARD TIME

5:45 a.m. KFNF 890 6:00 a.m. KARK 890 WBW 580 WMIN1370a 6:05 a.m. WAAW 660 6:15 a.m. WBAP 800 6:25 a.m. WJJD 1130 6:30 a.m. WOW 590 6:35 a.m. KMOX 1090 6:40 a.m. KGGF 1010 WDGY 1180 6:45 a.m. KFAB 770 KRLD 1040 KVOO 1140 WNAX 570 6:55 a.m. WJJD 1130 7:00 a.m. KARK 890 KFRU 630 KLPF 1240 KRGV1260a KRNT 1320 KSO 1430 KUSD 890 ² WBW 580 WMIN1370a WMT 600 7:15 a.m. KGGF 1010 KMBC 950 WGST 890 WHO 1000 7:25 a.m. WDAF 610 7:30 a.m. KFEQ 680 KVOA 1260 KWTO 560 WAAW 660 WDGY 1180 WDSU 1250 WBA 1280 WMC 780 WSFA 1410 WTMJ 620 7:45 a.m. KOMA 1480	KSOO 1110 KVOO 1140 WGST 890 ² WNBR 1430 WQAI 1190 WOW 590 7:50 a.m. KFNF 890 7:55 a.m. WDAY 940 WJJD 1130 8:00 a.m. KARK 890 KFD 560 KLPF 1240 KMOX 1090 KRGV1260a WFBM 1230 WKBH 1380 WMIN1370a WSMB 1320 KGGF 1010 KTOA 1260 KWB 1280 WBSB 1320 XET 690 8:05 a.m. WILL 580 WSM 650 8:10 a.m. WGST 890 8:15 a.m. KARK 890 KFMJ 1370 WDOD 1280 WJBY 1210 8:30 a.m. KGBX 1230 WDGY 1180 WDSU 1250 WHBF 1210 8:45 a.m. KFAB 770 WTAQ 1330 9:00 a.m. KARK 890 KLPF 1240 KRGV 1260a WJDX 1270 WMIN1370a WMT 600 WNB 1430 WROK 1410 WTMJ 620 9:15 a.m. WNAX 570 WBA 1280 KOMA 1480 KRNT 1320 ² KSO 1430 ² KWTO 560 WAAW 660 ²	WHBF 1210 WTRC 1310 9:45 a.m. WDGY 1180 9:50 a.m. WMFO 1370 10:00 a.m. KARK 890 KFRU 630 KLPF 1240 KRGV 1260a KSOO 1110 WMIN1370a WSMB 1320 WDSU 1180 10:15 a.m. KGGF 1010 KTOA 1260 KTAT 1240 ³ KVOA 1260 WDSU 1250 WJBY 1210 10:50 a.m. KFB 1300 WAVE 940 11:00 a.m. KARK 890 KFN 890 KLPF 1240 KRGV 1260a WISN 1120 WJDX 1270 WMIN1370a WTRC 1310 11:10 a.m. KGGF 1010 11:15 a.m. KVOO 1140 WBBZ 1200 WDGY 1180 WDOD 1280 11:30 a.m. KFPF 1210 WAAW 660 WGST 890 11:45 a.m. WMT 600 11:50 a.m. WBA 890 WDAF 610 WQAI 1190 Noon KARK 890 KFRU 630 KGNF 1430	KMBC 950 KRGV 1260a WBW 580 WJJD 1130 WMIN1370a 12:15 p.m. KGGF 1010 KRLD 1040 KSO 1430 KVO 1310 WJAG 1060 WKBH1380 ² WNAX 570 WROK 1410 12:30 p.m. KFMJ 1370 KVOA 1260 KWTO 560 KGBX 1230 WDSU 1250 WHBF 1210 WBA 1280 WJBY 1210 WNBR 1430 WOW 590 WSFA 1410 WSM 650 WSMB 1320 12:35 p.m. KFEQ 680 KLPF 1240 12:40 p.m. WOI 640 12:45 p.m. KSOO 1110a WDAY 940 WHO 1000 WKBH 1380 WQBC 1360 12:50 p.m. WDGY 1180 1:00 p.m. KARK 890 KGLK 1370 KRGV 1260a WAAW 660 ² WAVE 940 ⁹ WMIN1370a WTRC 1310 WTAQ1330a 1:05 p.m. WTMJ 620 1:15 p.m. KWTO 560 ² WAAW 660 WHO 1000 ²	1:30 p.m. KFAB 770 WFBM 1230 1:50 p.m. WMFO 1370 1:15 p.m. WGST 890 2:00 p.m. KARK 890 KRGV 1260a WAVE 940 WMIN1370a 2:15 p.m. WDGY 1180 2:30 p.m. WDSU 1250a WNBR 1430 WSFA 1410 WTAQ 1330 2:45 p.m. WBAP 800 WBW 580 2:55 p.m. KPNF 890 3:00 p.m. KARK 890 KFRU 630 KGNF 1430 KRGV 1260a KSOO 1110 KWTO 560 WGST 890 WMIN1370a WNAX 570 XEB 1030a 3:30 p.m. WAVE 940 WDGY 1180 WGBF 630 WISN 1120 WJJD 1130 3:45 p.m. KVOO 1140 WOW 590 4:00 p.m. KARK 890 KMBC 950 KRGV 1260a KUSD 890 ⁵ WMIN1370a WTAQ 1330 4:15 p.m. WAAW 660 ² WJAG 1060 4:30 p.m. WAAW 660	WDAF 610 WDGY 1180 WOI 640 4:45 p.m. WTMJ 620 4:50 p.m. WMFO 1370 5:00 p.m. KARK 890 KFAB 770 KFD 560 KOMA 1480 KRGV 1260a KSOO 1110a KUSD 890 ⁵ WDAF 610 ⁹ WHBF 1210 WMIN1370a 5:15 p.m. WAAW 660 5:30 p.m. KFEQ 680 KVOA 1260 KVOO 1140 WBZ 1280 WDGY 1180 WJDX 1270 5:45 p.m. KLPF1240 ² KGBX 1230 WDGY 1180 WDSU 1250a WBA 1280 ² WSMB 1320 XET 690 5:50 p.m. WDGY1180 ² WSU 880 5:55 p.m. KFMJ 1370 WJBY 1210 6:00 p.m. KARK 890 KLPF 1240 KMOX 1090 KRGV 1260a KVB 1310 KGBX 1230a WDOD 1280 WHBF 1210 WBW 580a WMIN1370a WOAI 1190 WOW 590 WSFA 1410 ⁹ 6:05 p.m. WGST 890a	6:30 p.m. KSO 1430 WHO 1000 WBZ 1280 WMT 600 WNAX 570 WNBR1430a WSFA 1410 WTAQ 1330a 6:35 p.m. XEB 1030 6:45 p.m. WFBM 1230 WKBH 1380 WSMB 1320 7:00 p.m. KARK 890 KFRU 630 KRGV 1260a WNB 1430 WOAI 1190 WTMJ 620a 10:05 p.m. WGST 890 10:15 p.m. KLPF 1240 KRNT 1320a KSO 1430a WFBM 1230 WMC 780 WOAI 1190 WTAQ1330a 10:30 p.m. KMOX 1090 WOW 590 WSMB 1320 XEB 1030 8:30 p.m. WJBY 1210 WTAQ1330a 8:45 p.m. KPNF 890 9:00 p.m. KARK 890 KFD 560 KGLK 1370 KRGV 1260a KUSD 890 ⁵ WHBF 1210 WMIN1370a WSU 880 9:15 p.m. KFPF 1210 11:45 p.m. KARK 890 KMBC 950 WHBF 1210	9:45 p.m. KMBC 950 WDDO 1280 WDSU 1250a WFBM1230 ² WBW 580a WROK 1410 11:00 p.m. KARK 890 KPRC 920 KRGV 1260a KRLD 1040 KUSD 890 ⁵ WDAY 940a WHBF 1210 WJDX 1270a WMIN1370a WMT 600 WNBR 1430 WOAI 1190 WTMJ 620a 10:05 p.m. WGST 890 10:15 p.m. KLPF 1240 KRNT 1320a KSO 1430a WFBM 1230 WMC 780 WOAI 1190 WTAQ1330a 10:30 p.m. KMOX 1090 WOW 590 WSMB 1320 XEB 1030 10:45 p.m. KOMA1480a 11:00 p.m. KARK 890 KFH 1300a WGST 890a 9:00 p.m. KARK 890 KFD 560 WIBW 580 WMIN1370a 11:15 p.m. KMOX1090 ² WHO 1000a 11:30 p.m. WMC 780 11:45 p.m. WDSU 1250 11:55 p.m. Midnight KARK 890 KMBC 950 WHBF 1210
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MOUNTAIN STANDARD TIME

6:30 p.m. KOBH 1370 6:50 a.m.	KFXD 1200 7:00 a.m. KOA 830	7:15 a.m. KGVO 1260 KTFI 1240	KVOR 1270 7:30 a.m. KDYL 1290	7:45 a.m. KLZ 560 KOBH 1370	7:55 a.m. KSL 1130	8:00 a.m. CHAB 1200 CJJCJ 690	CJRM 540 CKCK 1010 KFEL 920
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8:15 a.m.	10:00 a.m.	KGIR 1340	12:55 p.m.	KSL 1130	5:55 p.m.	7:30 p.m.	10:00 p.m.
KLO 1400	KDFN 1440	KIDO 1350	KDYL 1290	3:45 p.m.	KDYL 1290	KTFI 1240	CJRM 540
8:30 a.m.	KOY 1390	KTAR 620	KTFI 1240	KLZ 560a	6:00 p.m.	8:00 p.m.	KFBB 1280
KDFN 1440	KTAR 620	12:15 p.m.	1:00 p.m.	4:00 p.m.	KGIR 1340	KSEI 900a	KLZ 560a
KDYL 1290	KVOD 920a	KDFN 1440 ²	KVOD 920	KDFN 1440	KLO 1400	KVOD 920a	KOBH 1370
KSEI 900	10:30 a.m.	KFBB 1280	1:30 p.m.	KDYL 1290 ²	KOY 1390	8:15 p.m.	KOY 1390
8:45 a.m.	KDFN 1440	KGVO 1260	KGHF 1320	KFEL 920a	6:15 p.m.	KOB 1180	KVOD 920 ²
KIUN 1420	KIDO 1350	KLZ 560	1:50 p.m.	4:30 p.m.	CHAB 1200	8:30 p.m.	10:15 p.m.
9:00 a.m.	KOBH 1370	KVOR 1270	KFXD 1200	KOA 830	KGVO 1260	KDFN 1440	KSL 1130
KOBH 1370	11:00 a.m.	XEAF 990	KIDO 1350	4:45 p.m.	6:30 p.m.	KFXD 1200	10:45 p.m.
KVOD 920	KDFN 1440	12:20 p.m.	2:00 p.m.	KIBO 1350 ²	KOBH 1370	8:45 p.m.	KSL 1130a
9:30 a.m.	11:10 a.m.	KOY 1390a	KVOD 920	5:00 p.m.	KSL 1130	CKCK 1010	11:00 p.m.
KDYL 1290	KDYL 1290	12:30 p.m.	2:30 p.m.	CKCK 1010	KTFI 1240	XEAF 990	KDYL 1290a
KGHF 1320	11:15 a.m.	CHAB 1200	KSL 1130 ²	KIDO 1350	6:45 p.m.	9:00 p.m.	KGIR 1340
KTFI 1240	KLZ 560 ²	CKCK 1010	KTFI 1240	KVOD 920	KDFN 1440	KGIR 1340	KOA 830
9:45 a.m.	11:30 a.m.	KDFN 1440	3:00 p.m.	5:30 p.m.	KIUN 1420	KTAR 620	11:15 p.m.
KFBB 1280	KOA 830	KFKA 880	KDYL 1290	KDFN 1440	7:00 p.m.	9:15 p.m.	KTAR 620
9:50 a.m.	11:50 a.m.	KFXD 1200	KIDO 1350	KSEI 900	KFBB 1280	KGVO 1260	
KFXD 1200	Noon	CJRM 540	3:15 p.m.	KTFI 1240	KFEL 920a	9:30 p.m.	
KSEI 900	KFEL 920a	KSL 1130	KGVO 1260	5:45 ² p.m.	KIDO 1350	CJJC 690	

PACIFIC STANDARD TIME

KGDM 1100	KYOS 1040	10:30 a.m.	KMJ 580	KPO 680	4:45 p.m.	7:00 p.m.	KYA 1230
KHSL 950	8:45 a.m.	KIRO 710	KOL 1270	2:45 p.m.	KFCR 610	KIT 1310	10:00 p.m.
KQW 1010	KFVD 1000	11:30 a.m.	KOOS 1390a	KYOS 1040	EGDM 1100	KLX 880	KFI 640a
7:15 a.m.	KWJ 1040	CJAT 910	KVI 570	3:00 p.m.	KYOS 1040	7:45 p.m.	KFCR 610a
KFBB 1490	9:00 a.m.	KIRO 710	12:45 p.m.	KJBS 1070	5:00 p.m.	KOAC 550	KFWB 950a
KMJ 580	KFI 640	11:45 a.m.	KOIN 940	KQW 1010	KFPY 890	8:00 p.m.	KGA 1470
7:30 a.m.	KFPY 890	KHQ 590	KRNR 1500	3:30 p.m.	5:15 p.m.	KGA 1470	KGB 1330a
KFAC 1300	KOL 1270	Noon	KWSC 1220	KIRO 710	KOOS 1390	8:15 p.m.	KOMO 920 ²
KIEM 1450	KPO 680	KFAC 1300	KYOS 1040	KOIN 940	5:30 p.m.	KGBU 900	10:10 p.m.
KIRO 710	9:15 a.m.	KIT 1310	1:00 p.m.	3:40 p.m.	CIOV 630	9:00 p.m.	KGER 1380a
KJR 970	EGDM 1100	KNX 1050	KFRC 610 ²	KFAC 1300	KIRO 710	KGJF 1200	10:30 p.m.
KNX 1050	KJR 970	KOAC 550	KGA 1470	3:45 p.m.	5:45 p.m.	KIEM 1450	KFVD 1000
KRNR 1500	KOOS 1390	KROW 930	1:15 p.m.	KGER 1360	KPO 680	KJR 970a	10:45 p.m.
KWSC 1220	9:30 a.m.	KSFO 560	KGER 1360	KOL 1270	6:00 p.m.	KNX 1050a	KXA 750
7:45 p.m.	KHSL 950	12:15 p.m.	1:30 p.m.	KYOS 1040	KECA 1430	KOIN 940 ²	11:00 p.m.
KVI 570	KIRO 710	CKOV 630	KIRO 710	4:00 p.m.	KFAC 1300	KQW 1010	KECA 1430
8:00 p.m.	9:45 a.m.	KFBK 1490	1:45 p.m.	KFVD 1000	KFAC 1300	KROW 930	11:45 p.m.
KGA 1470	KFWB 950	KHSL 950	2:00 p.m.	KGA 1470	KQW 1010	KSFO 560	KROW 930
KHQ 590	KNX 1050	12:30 p.m.	2:00 p.m.	KLX 880 ²	KROW 930	9:30 p.m.	Midnight
KIT 1310	10:00 a.m.	KFPY 890	KFVD 1000	4:15 p.m.	XEMO 860	KFPY 890a	KFWB 950
KOL 1270	KJBS 1070	KFRC 610	KGDM1100 ²	KHSL 950	6:15 p.m.	KLX 880	KNX 1050
8:30 a.m.	KQW 1010	KFVD 1000	KLX 880	KRNR 1500	KJR 970	KVI 570 ²	1:00 a.m.
CKOV 630	10:15 a.m.	KGBU 900	2:15 p.m.	KWJ 1040	KNX 1050	9:45 p.m.	KIRO 900
KFRC 610	10:20 a.m.	KIEM 1450	2:30 p.m.	4:30 p.m.	6:30 p.m.	KIT 1310	
KIRO 710	KLX 880	KIRO 710	KIRO 710	KIRO 710	KGBU 900	KOL 1270a	
KOIN 940		KJBS 1070				KVI 570	

The Broadcast Division of the FCC has approved the transfer of ownership of several radio stations. The sale of KOMA, Oklahoma City, for \$75,000 and of WACO, Waco, for \$50,000 to Hearst Radio, Inc., was approved. Some time ago Hearst Radio became the owner of KTSA, San Antonio and KNOW, Austin. These four stations were formerly owned by the Southwest Broadcasting System. A fifth station in this station has been sold to Raymond Buck but the transfer has not yet

had the approval of the FCC. This is KTAT at Fort Worth.

Dr. Lee DeForest, noted inventor and radio pioneer, was one of the speakers at the dedication of the new million dollar broadcasting plant of WWJ, Detroit. Dr. DeForest strengthened WWJ's claim to be the oldest radio station in the world, declaring that KDKA was founded eleven weeks later, and that WSB at Atlanta appeared on the air before KDKA, but after WWJ.

STUDYING THE STARS

••• By BETTY

THE Baron Munchausen, fabulous figure of the microphone, is back on the air.

Jack Pearl, creator of the Baron (the radio version of the Baron . . . the original idea was conceived by Rudolph Raspe in 1785), resumed the programs after an absence of a year and a half from the airwaves. During that time the man who made "Vas you dere. Sharlie?" a national catch-phrase, has been traveling in Europe and South America. "Sharlie" is there, too, again in the polysyllabic person of Cliff Hall, who has been at Jack's side for years as his straight man.

Jack Pearl, like several of his outstanding contemporaries of stage and radio fame, was born on New York's lower east side and was a seasoned trouper by the time he reached his 'teens. Together with several of those now famous contemporaries, he was for some time a headliner in Gus Edwards' vaudeville troupe of talented juveniles.

For some time Jack was one of the brightest stars presented by Florenz Ziegfeld, Broadway's master showman, and it was under the Ziegfeld banner that he first came to radio, in the impresario's first and only air review. It was soon after this that he created the Baronial role became one of the foremost figures of the broadcasting studios.

Jack Pearl and Cliff Hall are heard on Mondays from 9:30 to 10 p. m., EST, on the NBC-Blue Network.

A Fool and a Fool

The most successful comedian-straight man combination in radio, Ed Wynn and Graham McNamee, were re-united when the Perfect Fool started his new series



We do not believe it is necessary to tell anyone that this is Charles Butterworth of movie fame. "Do the people love me. . . or don't they?" he seems to wonder, as he finishes his weekly broadcast with Fred Astaire over the NBC-Red hookup. The Packard hour, with Astaire and Butterworth, is heard Tuesdays at 9:30 pm, EST.

over the NBC-Blue network last month, on Saturdays at 8 p. m., EST.

With the exception of one brief series, the famous announcer has always acted as partner for the flutery-voiced funny man. Wynn calls him "The Perfect Foil" for his "Perfect Fool."

Ed Wynn made his radio debut 14 years ago, June 12, 1922, to be exact. On that date he took the entire cast of "The Perfect Fool" over to the old WJZ studios in Newark and presented the show complete, including the ballet which Ed described for listeners.

Graham McNamee had joined the staff of WEA, then a rival station to WJZ, just one month before, as a singer who consented to do some announcing on the side.

Ten years after his first broadcast, Wynn returned to the air on the NBC, and found that McNamee had been assigned to announce the show. The instantaneous success of the program was no surprise because for years Ed Wynn had been the most widely laughed-at jester on the stage. His starring shows, such as the "Perfect Fool," "The Grab Bag," "Manhattan Mary," "Simple Simon," "The Laugh Parade," had set box office records. The microphone proved to be a natural medium for his irrepressible talents.

McNamee's voice is possibly one of the best known in the world. He has been heard for more than ten years on outstanding events, such as conventions, prize fights, football games, horse-races and baseball series. In addition to those, he has announced many of the outstanding studio programs over the networks.

Like Harry Von Zell and Don Wilson, his announcing colleagues, McNamee began his microphone career as a baritone. He made his concert debut at Aeolian Hall in 1922, and then decided to try radio. He applied for an audition at station WEA and was eminently successful. The announcer, who considers his assignment to cover Broadway's welcome to Lindbergh the most thrilling of his career, has been with NBC ever since the network was formed.

So They Got Paid

Billy Jones and Ernie Hare of the CBS Sunday night "Community Sing" program, who just celebrated their fifteenth anniversary on the air, recalled how they started the ball rolling in the direction of the huge radio salaries paid today.

It was back in 1921. Their first broadcast was such a success that the manager of WJZ invited them to return the following week. Being practical fellows, they asked, "How much?" They were told they wouldn't be paid anything at all, because, it was explained, "this is a scientific experiment."

"No pay, no work," replied Jones emphatically. "The boys in the control room get their check every Saturday. You get paid for asking us. The guys who built this station were paid. But the artist who really performs gets nothing. No, thanks. You can get someone else."

Two weeks later, the station capitulated. They were given \$25.

News of the Radio World

● ● ● By Count De Veries

WHAT was probably the goofiest incident during the recent presidential campaign was the decision of the Democratic National Committee to withhold all further commercial broadcasts from stations KFI-KECA, Los Angeles.

It all started when KFI refused to carry one of President Roosevelt's "fireside chats" as a sustaining program. The station maintained in a statement to the FCC that it made a "clear distinction between the President of the United States and the Democratic candidate for that Office." Claiming that the fireside chats were part of the election campaign, the management declined to accept the broadcast without payment of the usual time rates.

Although the FCC Broadcast division gave KFI a clean bill of health under the political section of the Communications Act, Commissioner George H. Payne, in an address at Riverhead, N. Y., called the KFI action an "arrogant abuse of power."

Democratic leaders, planning to use both major networks for campaign speeches by the President, decided that adequate coverage in the Los Angeles area could be had through Columbia outlets.

Regina Stations Merge

Purchase of radio station CHWC was announced early this fall by the management of the Leader-Post in Regina, Sask. The station has been merged with CKCK, pioneer Leader-Post broadcast plant, which had been established more than 14 years ago.

Station CKCK was formally opened on July 28, 1922 and hundreds of Regina's tramped through a pouring wet night to participate in the ceremonies. "Remote control", as it had been developed in that day, was used and the speeches from the city hall auditorium were carried to the operating room in The Leader-Post building to be sent over the air.

Several world's records are to the credit of CKCK. In March of 1933, it broadcast the first professional hockey game ever to be transmitted. The first long distance remote control broadcast was given in the same year. The first church service ever broadcast in the British Empire was carried from Carmichael Church, Regina. In more recent years, CKCK was the only station in Canada to have as a guest Rt. Rev. Bishop Ingram, lord bishop of London, when he was in the Dominion a few years ago.

For a time after the purchase of CHWC, programs were broadcast under the call CKCK-CHWC. When CHWC's license expired, its call was dropped permanently from the records and CKCK carries on a program of service to the people of Saskatchewan.

CSB Plans Hollywood Center

That broadcasting from Hollywood is becoming an increasingly important factor in network plans

is shown by the decision of Columbia to erect elaborate Pacific Coast headquarters in the movie capital to serve its nation-wide and regional networks.

The project includes a new radio center to be built at an approximate cost of one million dollars. Plans are also under way to extend Columbia facilities in San Francisco.

The new CBS radio center in Hollywood will include auditoriums, studios and offices to serve the recently-acquired 50-KW station KNX as well as the regional and national networks.

The developments of over three years of laboratory research in production, acoustical technique and en-



The architect's impression of the new West Coast radio center which the Columbia Broadcasting System plans to erect in Hollywood . . . a virtual "house of glass" embodying auditoriums, studios and offices in modern structures to cover an entire city block on Sunset Blvd. Construction will commence the first of the year and an investment of about a million dollars will be represented.

gineering design will be focused on the new project. In its design, Columbia will incorporate the benefits of both American and European advancements in sound broadcasting and television.

Final plans have been approved and actual building operations are due to commence about January 1st. It is expected that several building units will be completed by next October.

WFIL Builds New Studios

Not to be outdone by its rival network, Station WFIL has completed plans for the construction of a suite of modern, air-conditioned studios and offices on the top floor of the Widener Building in the heart of Philadelphia's mid-town business district.

Technically, the new studios will represent the broadcasting station of tomorrow. Chief Engineer Becker has perfected a new operations system designed to eliminate superfluous wiring and materials. Revolutionary in theory and compact, this equipment will incorporate all the features of efficient, practical operation with the use of but one half the usual space.

Work on construction is to be rushed so that the new quarters will be ready for occupancy early in 1937, in time to commemorate the station's second anniversary.

F.C.C. October Hearings

Shall thirty or more superpower broadcasting stations, radiating energy of 500,000 watts or more and equaled only by one station in Cincinnati and another in Moscow, be authorized in the United States to widen and improve service to the rural listener?

Although the October hearings scheduled by the Federal Communications Commission were intended to cover every phase of broadcasting, the question of superpower appeared to be the mooted point. Two schools of thought presented their ideas before the Broadcast Division.

Staunch advocate of increased power for better coverage, Lenox R. Lohr, NBC president, contended that more stations like WLW would not only provide better service to the outlying audience but would deliver clearer programs to interference-ridden metropolitan areas. He was supported by representatives of a group of clear-channel

stations.

Opposing views were led by William S. Paley, CBS president, who claimed that additional superpower would mean a lessened need for local and regional outlets on the networks. He was supported by the so-called regional channel group who asked that superpower be banned in this country because it would virtually doom regional stations, with their local audiences standing to suffer blanketing and cross-talk interference.

One significant point in Mr. Paley's testimony was brought out during his mention of the cost of superpower broadcasting. He estimated that such grants would impose an additional burden of over ten million dollars on the broadcasting industry and an additional annual operating cost of three to four million dollars. With an experimental television budget of two million dollars already approved and, in his opinion, visual broadcasting not more than two years away, he was firm in his belief that stations could not afford additional outlays for sound transmissions.

Thus the biggest independent American network discloses that it sees television not more than two years hence! And Mr. Paley has returned only the week before from Europe where he himself studied television developments. This disclosure is conceded to be of greater importance than even the superpower developments.

You cannot forget to tune in your favorite radio programs when you have them marked down on the RADEX radio slate. Its four pages of heavy bristol board provide spaces for all the evening programs and for Sunday afternoon. Try them and you will wonder how you ever got along without them. Four for 25c, sent post-paid.

Radio Problems

(Continued from Page 22)

a pre-selector. A set, such as the 18-tube Midwest, hardly needs a pre-selector. Most sets of these types, have built-in pre-selectors anyway.

A Modern Receiver

For some time I have been contemplating the building of a new broadcast-band and short-wave receiver, but so far I have not found a suitable diagram. I would like to use a 58 r-f tube, 57 detector, 56 a-f and a 2A5 power with an 80 rectifier. If you can publish a diagram it would be a help, or perhaps a superheterodyne using the same tubes would be sufficient.

This request is not unlike many others that RADEX receives. But we have been compelled to lean backwards when the subject of set building is broached. RADEX is not particularly an experimental radio magazine, and it prefers to leave that field to such magazines that specialize in set building. First, set building today is not the simple proposition it was some years ago. The newer tubes and all-wave circuits require something more than a diagram and a pile of assorted parts. There are very definite engineering problems to be met; the spacing of the parts; use of a metal chassis frame; the shielding of tubes and coils; the location of wires and small units beneath the chassis; not to mention the many calculations for tubes, current, and potentials at many different points.

Majestic radios, refrigerators and other household utilities will be made and distributed by the Triangle Electric Co. of Chicago. This firm, controlled by the Davega Stores Corp., recently purchased the good-will, trademarks and patent rights of the former Grigsby-Grunow Co.

Winter Nights

(Continued from Page 6)

The coming of a cold wave heralds several days and nights of good radio reception. Everyone should make the best of it. The wave follows upon the heels of cloudy and snowy weather which has been accompanied by some static. Temperatures drop rapidly and the skies become clear. In a few hours the static-infested air is cleared, and reception becomes a thing of joy. DX radio fans settle down for the night, and should be permitted to enjoy those hours of wonderful reception that come all too seldom each season.

Static Predicts Change

On the other hand, even in the midst of bright, cold weather, static may appear. It rapidly increases, soon to be followed by cloudy and unsettled weather. In such cases, this sudden winter static is a fairly reliable indicator of a coming change in the weather. Just why static develops like this when skies are bright and clear is not fully understood, for the condition often appears considerably in advance of the actual rain or snow that ordinarily brings static.

There is much in the winter weather of the atmosphere in which we live that affects radio reception. But we have little knowledge of what occurs far beyond. We do know, however, that sun spots and auroras—those great electrical and magnetic storms which are associated with sun spots—often affect winter radio reception and wire telegraphy. But auroras are rare, except in the far north, and seldom interfere with radio reception during the winter months.

Broadcasting is officially recognized as having started in the United States in the autumn of 1920. (WWJ, Detroit, Aug. 20, 1920).



Joe Penner, with his cigar, tweed hat, throaty chuckles and all, is back on the CBS airways every Sunday from 6 to 6:30 pm, EST. The musical background for his nonsensical songs is supplied by Jimmie Grier's Orchestra.

Around the World

(Continued from Page 10)

which were reported by a RADEX reader some time ago, belong to the new liner "Awatea," in the Australia to New Zealand service. ZMBJ has a power of 300-400 watts and so far has been heard near 23, 34 and 70 meters, testing with ZLT at Wellington.

Prague Station Confirms

One of the first to receive a verification from the new Czechoslovakia station is Carl Eder of Willmar, Minn. The text of the confirmation is, "Referring to your letter of 24/VII-36, requesting us to verify the program which you heard over the radio that day, we are glad to inform you that your reception was correct, **Station Praha** Short Wave, hour 11.37 GMT. Wavelength 19 and 25 meters . . . Radio Journal." A

photograph of Mr. and Mrs. Eder will be found in this edition of RADEX.

A London listener wrote about his reception of **W2XAD** to a British magazine, under date of October 9, 1936. His comments might be of interest to baseball fans. "A relay was in progress from Detroit where one of the games in the great World Series of baseball matches was being played. With the aid of the famous 'Babe' Ruth, the game was won by the Detroit Tigers. . . ." This convinces us that their knowledge of baseball is about equal to our knowledge of cricket.

"I have just logged a few new s.w. phones and police calls," reports James L. Black, 2252 Bellfield Ave., Cleveland, Ohio. "Two of them were on 1706 kcs., **WEVN** and **WHWN**, both of the Maryland State Police but their exact location unknown. On 2604 kcs. there were three U. S. Army stations, **WYER** near Lexington, Mo.; **WZAS** at Gasconade, Mo., and **WZAU** at Napoleon, Mo. The Army stations were heard calling each other at about 9 pm, EST. These new calls bring my total log up to 812 stations, including the broadcast band, 'phones, police and amateurs. Both the Chilean short-wave stations have changed their schedule; **CB960** on 9600 kcs. now works from 1130 to 1300 and 1900 to 2130, EST. **CB615**, 6150 kcs., transmits from 1700 to 2000, EST. **COCX** still insists that they are operating on 11.650 meg. but their actual frequency is 11.800. (**COCX** advises us they have no frequency assignment but work anywhere near 11-12 meg. ed.) Their **QRA** (address) is P. O. Box 32, Havana.

"The Lobito, Angola, station, **CR6AA**, has changed its frequency from 7.175 to 9.660 meg. They use 500 watts and transmit Wednesday and Saturday from 1645 to 1830, EST. **HI3C**, La Romana, D. R., formerly on 6,900 kcs., changed to 6105, then moved to 6730 kcs, where it is

now heard on the following schedule: Weekdays, 1310-1510 and 1910-2040, EST. Sundays, 1310-1540 EST. The new station in David, Panama, is about due to come on the air; it will be known as **HP5L** and will work on 11.740 megs."

A new station in Maracaibo, Venezuela is reported by **Ralph Gozen**, 1090 East Parkway, Brooklyn, N. Y. "**YVIRG-YVIRH**, first came on the air on 6.36 megs but are now on 6.39," he states. "One of these call letters is for the s.w. and the other is for the broadcast band, but I do not know which is which. The slogan is **Emisora Philco** and the address, Apartado 261.

"**YDC**, Bandoeng, Java, N. E. I., is a new call. I hear it on 15.150 megs at the same time as **PLP**, and with a much better signal. The latest verification from **H13C** at La Romana, D. R., gives the freq. as 6.73 megs, power as 50 watts, and schedule as daily 1210-1340 and 1810-1940, EST. Their slogan is *La Voz de la Feria*."

The American-Hungarian DXer, **Albert Steinmetz**, 1235 N. Lawrence St., Philadelphia, Pa., heard about the existence of a Hungarian Radio Club in Chicago, Ill., through his favorite station, **HAT4** at Budapest, Hungary. He would like further information about this club. If anyone in Chicago knows about it please let **RADEX** as well as **Mt. Steinmetz** as we want our Roster of DX Clubs to be complete.

"Since my last report I have received a number of verifications, including **DJC**, **DJL**, **ORK**, **2RO**, **COCQ** and others," submits **William Buchanan**, 189 Park St., Sydney, N. S. "In a former issue of **RADEX** a reader reported **COCQ** on 9750 kcs, but according to their card they are on 9755. I am hearing **ORK** in Brussels from 1330 to 1500, EST, with a good signal."

A local radio amateur (**W8BKM**) brought it to our attention that a

few broadcast listeners have sent him SWL cards with a good unused penny stamp affixed to the face of them so he can easily remove the stamp and use it in replying to them. It pleased us to note that at least a few listeners are willing to stand the expense of their verifications, and the method is suggested to others who desire cards from amateurs but who cannot send many letters at the full rate in order to enclose return postage. Most amateurs appreciate reports from listeners and are willing to verify them if they do not have to pay the postage.

"Formerly known as **XEVI**, the Mexico City station on 11900 kcs. is now **XEWI**," states **Morton Meehan**, 563 Adams Ave., Elizabeth, N. J. "According to programs they send out they are on the air Mondays from 3-4 pm, Tuesdays from 7:30 to 8:45 pm and 10:30 to midnight. Wednesdays 3-4 pm; Thursdays 7:30 to 8:45 pm and 10 pm to midnight; Fridays 3 to 4 pm and 9 to 12 pm, and Sundays from 1 to 2:15 pm, all times EST. They broadcast programs in Spanish, French, German, English Esperanto. Lessons in Esperanto are given on Mondays from 3 to 4 pm. **XEWI**'s address is P. O. Box 2874."

James Walker of Romney, Va., is, we believe, the first to obtain a verification from the floating Australian station **9ML**. The QSL card, which bears a picture of the vessel **Kanimbla**, states that this is the first ship broadcasting station. Frequencies used are 11710 and 6010 kcs., with 50 watts aerial power. The owners are **McIlwraith, McEacharn, Ltd.**, Box 255c, Melbourne, Australia.

"The Meade Boys," 819 Wyandotte St., Kansas City, Mo., tell us that **CLX** in Havana, Cuba, was heard testing on phone on 6995 kcs., and the new Maracaibo station **YVIRH** was heard after midnight on 6330 kcs. broadcasting a special program to the West Indies.



The Second Vice-President of the RDXC is Leslie W. Orton.

KAED, Angoon, Alaska, is a 40 watt Territorial station on 2.616 and 3093 kcs. It can work with any other station on 2.616 but has a regular schedule only with KAEP at Tenakee, on Chichagoff Island, at 8 pm Alaskan time (midnight, EST). On 3093 kcs. KAED works exclusively with WXA, Juneau, at 8:45 pm Alaskan time.

Information of interest to listeners on the west coast comes from Ashley Walcott, San Francisco, Calif. Stations KBCE and KBGD, forestry stations in California, have shifted their frequency from 3445 to 3437.5 kcs. A new station, KBAW at Porterville also works on this new frequency. SP33 at Weaverville, on 3345 kcs., is now KBAX.

A third report on *Radio Podebrady* comes from J. Herbert Hyde, Box 82, Elmwood, Conn., the details given by

him being the same as given elsewhere in this article, except that Mr. Hyde heard them testing at 1700 to 1730 EST. The station is no doubt on the air continuously for twelve hours, from 2 pm until 2 am, EST. Mr. Hyde's comments on several other stations follow:

"Last Sunday afternoon I logged TFJ in Reykjavik, Iceland, for the first time. I picked them up at the beginning of their transmission, 1340 EST and held them until they signed off at about 1436 EST. The signal was clear but not much 'sock' or power to it. Fading was rapid and shallow. An English traveller gave a very interesting talk on Iceland and, in spite of the imperfect reception, I was able to enjoy quite a few of his remarks.

"I finally logged *Radio Suva* and, while the signal was not good, I was able to get a fairly good log and have a report in the mail to them. The station seemed to be poorly modulated and it was sometimes difficult to understand everything.

"LSX has been on the air again, relaying, irregularly, the programs of *Radio Splendide*."

In the Wee Hours

(Continued from Page 17)

log and verify a new station. The second is to provide unusual programs of outstanding merit for the scattered night owls around the country.

For the actual logging of stations, the monthly frequency checks offer DXers the best possible opportunity to hear a selected group of stations under favorable conditions. With few exceptions, these test transmissions are audible in all parts of the country. Therefore, we believe that courtesy programs committees would do well to schedule a minimum of these stations for DX broadcasts.

There is also a large group of clear-channel and higher-power regional stations which may be heard during their regular transmissions. Thus, for logging purposes, special programs have little or no appeal either to station or DXer. It is true that some of these stations, such as KSL, KVOO, WOR, WABC and a few others, plan occasional late programs of real interest to the DXing fraternity.

Therefore, we are of the opinion that radio clubs should confine most of their efforts to the smaller stations which are not available on regular or frequency check transmissions. In this class fall many 100-watt locals which are not included in the monthly checks as well as not a few medium-power stations on specified hours. DX broadcasts from these stations are always welcome and the various CPC's should attempt to have them all on once or twice a year.

All-Nighters Continue

"Recently I read in the radio column of a prominent New York newspaper," confides Glen V. Phillips, 221 Roosevelt St., Union City, N. J., "that WNEW has about 200 regular listeners in their Milkman's Matinee which runs from 2:00 to 7:00 AM daily except Monday. This station covers my dial from 1200 to 1400 keys and spoils my chances to hear stations on four crowded local channels. Certainly this is a good reason to use in promoting the removal of such stations from the air lanes during the early-morning hours."

"A check-up of Pacific Coast stations," reports Charles C. Norton, 2018 Green St., San Francisco, Calif., "shows that KRE, KJBS, KGFJ, KFAC and KXL are on all night. KYA broadcasts regularly until 5:00 AM, EST. KSFO is on every night until 4:30 AM, EST, while KROW transmits until 5:30 AM, EST daily."

THE MONTH'S CHANGES IN STATION DATA

		NEW
790	.....	Pittsburg, Kans.
1050	WEAU	Eau Claire, Wis.
1200	.....	Huntsville, Ala.
	.....	Kinston, N. C.
	.....	Sioux Falls, S. Dak.
1250	.....	St. Louis, Mo.
	.....	Winston-Salem, N. C.
1310	.....	Cedar City, Utah
	.....	Corsicana, Texas
	.....	Jefferson City, Mo.
1370	.....	Wausau, Wis.
1420	.....	Watertown, N. Y.
1480	.....	Hammond, Ind.
1500	.....	Salina, Kans.
		FREQUENCY
550	XEFC	Merida, Yuc., from 560
1200	KOOS	Marshfield, Ore., from 1390
1410	CMCQ	Havana, Cuba, from 1420
		POWER
730	XEPN	Piedras Negras, Coah., 100,000 from 50,000
830	CMJX	Camaguey, Cuba, 500 watts
840	XERA	Villa Acuna, Coah., 350,000 from 250,000
1010	CMJA	Camaguey, Cuba, 300 from 50
1200	CMCO	Havana, Cuba, 250 from 150
	KDNC	Lewistown, Mont., 250 from 100
1220	XETF	Vera Cruz, Ver., 30 from 12
		LOCATION
1260	KOIL	Omaha, Nebr., from Council Bluffs, Iowa
	KUOA	Siloam Springs, Ark., from Fayetteville, Ark.
1290	WEBC	Duluth, Minn., from Superior, Wis.
		CALL LETTERS
1370	WBLK	Clarksburg, W. Va., from WEXP
		NETWORKS
590	WEEI	Boston, Mass., CBS from NBC
1210	WOOL	Columbus, Ohio, new NBC
		DELETE
1160	XESL	Tijuana, L. C.
1200	WOLS	Florence, S. C.

Puerto Rico's fourth broadcasting station was authorized by the FCC when it granted the application of Emilio Defillo Ramirez to erect a 100 watt night and 250 watt day outlet on 1370 kcs. in the city of Mayaguez. Mr. Ramirez is the owner of the Puerto Rico Advertising Co. The call letters are WPRa.

* * *

The NBC has commenced to broadcast a 15-minute sustaining feature on Mondays, Wednesdays and Fridays to Central and South American countries through the facilities of W3XAL at Bound Brook, N. J., 6100 kcs. The programs are announced in Spanish by Dan Russell, and are entitled "El Pan-Americano." It is expected that soon a full hour program will be transmitted nightly in Spanish.

WHAT'S ON THE AIR TONIGHT

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

COLUMBIA.....(C)	
Call	Dial

NATIONAL, Red (R)	
Call	Dial

NATIONAL, Blue (B)	
Call	Dial

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

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

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

MONDAY

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

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

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
R — Amos 'n' Andy
 KYW WBNB WCAE WCSH WEAF
 WEEI WFBZ WGY WJAR WLW
 WRC WTAG WVIC

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C — Popeye the Sailor
 KFAB KLZ KMBC KMOX KRNT
 KSL WABC WADC WBBM WBNS
 WCAO WCAU WDRC WEAN WFBL
 WFBM WGR WHAS WHEC WHK
 WIBX WICC WJAS WJSV WKRC
 WNAC WOC WOKO WORC WSMK

R — Uncle Ezra's Radio Station
 KPRC KTBS KTHS KVOO KYW
 WBPB WBNB WCAE WCKY WCSH
 WDAF WEAF WEEI WFBZ WGY
 WHIO WIRE WJAR WKY WMAQ
 WOAI WOOD WOW WRC WTAG
 WTAM WVIC

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Goose Creek Parson
 KFAB KMBC WABC WBBM WBNS
 WBT WCAO WCAU WDAE WDBJ
 WDBO WDRC WEAN WFBL WGR
 WGST WHEC WHK WICC WJAS
 WJR WJSV WKRC WLW WMBG
 WMBR WNAC WOKO WORC WQAM
 WTOC

B — Lum and Abner
 WBC WBZA WENR WJZ WLW
 WMC WSM WSYR

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

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Horace Heidt and Orchestra
 KDB KERN KFAB KFBC KFH
 KFYP KFRC KGB KHJ KLRA KLZ
 KMBC KMJ KMOX KOIN KOL
 KRLL KRNT KSL KTRH KTSa
 KTUL KVI KWG WABC WBBM
 WBRB WBT WCAO WCAU WCCO
 WDRC WFBL WFBM WGR WGST
 WHAS WHK WJAS WJR WJSV
 WKRC WLAC WMBR WNAC WNAH
 WOKO WREC WWL

R — Fibber McGee and Molly
 KSD KYW WBNB WCAE WCKY
 WCSH WDAF WEAF WEEI WFBZ
 WGY WHIO WIRE WJAR WMAQ
 WOOD WOW WRC WTAG WTAM
 WVIC WWJ

B — Helen Hayes, Drama
 KDKA KOIL KSO KWK WABY
 WBAL WBZ WBZA WEBR WFBZ
 WFBL WGAR WHAM WJZ WLS
 WMAL WMT WREN WSAI WSYR
 WXYZ

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Pick and Pat
 KFAB KMBC WABC WADC WBBM
 WBT WCAO WCAU WDRC WEAN
 WFBM WGR WGST WHEC WHK
 WHP WICC WJAS WJR WJSV
 WKRC WLW WMAZ WNAC WOKO
 WORC WSPD

R — Voice of Firestone
 CFCE CRCT KFYP KPRC KSD
 KSTP KTBS KVOO KYW WAVE
 WBNB WCAE WCCS WCEE WDAF
 WDAY WEAF WECB WEEI WFAA
 WFCB WFBZ WFLA WGY WHIO
 WHIO WIBA WIOD WIRE WIS
 WJAR WJAX WJDX WKY WMAQ
 WMC WOAI WOW WPTF WRC
 WRVA WSB WSM WSMB WSOB
 WTAG WTAM WTAR WVIC WTMJ
 WWJ WYNN

B — Melodiana; Abe Lyman
 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 CRAC KDB KERN KFAB
 KFBC KFYP KFRC KGB KHJ
 KLRA KLZ KMBC KMJ KMOX
 KOIN KOL KOMA KRLL KRNT
 KSL KTRH KTSa KTUL KVI KWG
 WABC WADC WBBM WBNS WBRB
 WBT WCAO WCAU WCCO WDAE
 WDBJ WDRC WEAN WFBL WFBM
 WGR WHAS WHEC WHK WICC
 WISN WJAS WJR WJSV WKBW
 WKRC WLAC WNAC WNAH WOKO
 WORC WQAM WREC WWL

R — Warden Queens, Prison Drama
 KDYL KFI KGW KHQ KOA KOMO
 KPO KPRC KSD KYW WBNB
 WCAE WCKY WCSH WDAF WEAF
 WGY WHIO WIRE WJAR
 WMAQ WNAC WOW WRC WTAM
 WVIC WWJ

B — Sinclair Greater Minstrels
 KDKA KDYL KFYP KOA KOIL
 KPRC KSO KSTP KTBS KTHS
 KVOO KWK WBAL WBZ WBZA
 WDAY WEBC WFAA WFLA WGAR
 WHAM WHA WIOD WHS WJAX
 WJDX WJZ WKY WLS WLW WMAL
 WMC WMT WOMI WPTF WREN
 WRVA WSB WSM WSMB WSOB
 WSNB WSYR WTAR WTMJ WYNN
 WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30
R — Richard Himber and Orchestra
 KFYP KPRC KSD KSTP KTBS
 KVOO KYW WBNB WCAE WCSH
 WDAF WDAY WEAF WEBC WFAA
 WFBZ WGY WHIO WIBA WJAR
 WFY WLW WMAQ WOAI WOW
 WRC WTAG WTAM WVIC WTMJ
 WWJ

B — Jack Pearl, coming.
E-10:00 p.m., C-9:00, M-8:00, P-7:00
R — Contented Program
 CFCE CRCT KDYL KFI KGW
 KHQ KOA KOMO KPO KPRC KSD
 KYW WBNB WCAE WCSH WDAF
 WEAF WEEI WFBZ WFLA WGY
 WHIO WIRE WJAR WJAX
 WKY WMAQ WMC WOAI WOW

MONDAY (Continued)

WPTF WRC WRVA WSB WSM
WTAG WTAM WTAR WTVL WTVN
WWNC

B — Singin' Sam

KDKA KECA KFSD KGA KGO
KJR KLO KOIL KSO KWK WBAL
WBZ WBZA WENR WFIL WGAR
WHAM WJZ WMAL WMT WREN
WSYR WXYZ

C — Wayne King and Orchestra

KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRNT
KSL KVI KWG WAAB WABC
WADC WBBM WBNS WBT WCAO
WCAU WCCO WDRS WEAN WFBL
WFBM WHAS WHK WIBW WJAS
WJR WJSV WKBW WKRC WOKO
WSPD WWL

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

R — Krueger Musical Toast

WCSC WCHS WEAF WFBC WFLA
WGY WIOD WIS WJAR WJAX
WNAC WPTF WSB WSOB WSUN
WTAG WTAR WTVL WWNC

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

C — Goose Creek Parson

KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLRA KLZ KMJ
KOIN KOL KOMA KRLD KRNT
KSL KTRH KTSB KTUL KVI KWG
KWKH WBCO WCCO WFBI WHAS
WISN WLAC WREC WWL

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

C — Dance Orchestra

CFRB CKAC WAAB WABC WADC
WCAO WCAU WDRS WFBL WFEA
WHCC WHK WIBX WJAS WKBW
WKBW WLBZ WMAS WOKO WORC
WPG WSBT WSPD

R — Amos 'n' Andy

KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD WBAF WDAF
WHO WKY WLW WMC WQAI WOV
WSB WSM WSMB WTAM WWJ

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

C — Renfrew of the Mounted

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

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

C — Dance Orchestra

CFRB CKAC KLRA WAAB WABC
WADC WALA WBNS WBRC WBT
WCAO WCAU WDAE WDBJ WDBO
WDNC WDDO WDRS WEAN WFBL
WFBM WFEA WGST WHAS WHCC
WHK WIBX WICC WJAS WJR
WJSV WKBW WKBW WKRC WLAC
WLBZ WMAS WMBG WMBR WNOX
WOKO WORC WQAM WREC WSBT
WSJS WSMK WSPD WTOC

C — Pick and Pat

KDB KERN KFAB KFPY KFRC
KFB EGRO KHJ KLRA KLZ KMJ
KMOX KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTUL KVI KWG
KWKH WACO WBCR WCCO WFBM
WHAS WLAC WREC

TUESDAY

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

C — News of Youth

WAHC WADC WBNS WCAO WCAU
WDRS WEAN WFBL WHK WIBX
WICC WJR WKBW WLBZ WNAC
WOKO WORC WWVA

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

B — Lowell Thomas, See Monday

C — Renfrew, See Monday

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

R — Amos 'n' Andy, See Monday

B — Easy Aces

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

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

C — Ted Husung Sportcast

WABC WADC WBG WBNS WBT
WCAO WCAU WDAE WDBJ WDBO
WDRS WFBL WGR WGST WHCC
WHK WHP WIBX WICC WKBW
WMAS WMBG WMBR WNBW
WOKO WORC WQAM WSJS WTOC
WWVA

R — Voice of Experience

KDYL KFI KFJR KGW KHQ KOA
KOMO KPO KSD KSTP KYW WBSN
WCAE WCHS WDAF WDAY WFAF
WIBC WEEL WFBW WGY WHO
WIBA WJAR WLW WMAQ WOV
WRC WTAG WTAM WTVL

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 — Hammerstein Music Hall

KFAB KMOX KRNT WABC WADC
WBBM WBNS WCAO WCAU WDRS
WEAN WFBL WFBM WGR WHAS
WHK WJAS WJR WJSV WKRC
WMAS WNAC WOKO WSPD

R — Leo Reisman and Orchestra

KFYR KPRC KSD KSTP KTBS
KYVO KYW WAVE WBAF WBSN
WCAE WCHS WDAF WDAY WFAF
WEEI WFBW WFLA WGY WHO
WIBA WIOD WIS WJAR WJAX WJDX
WKY WLW WMAQ WOV WPTF
WRC WRVA WSOB WTAG WTAM
WTAR WTVL WTMJ WWJ WWNC

B — Log Cabin Dude Ranch

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

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

C — Russ Morgan; Ken Murray

CFRB CKAC KFAB KFBK KFLA
KMBC KMOX KOMA KRLD KRNT
KSL KTRH KTSB KTUL WABC
WADC WBBM WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDRS WEAN WFBL WFBM WGR
WGST WHAS WHCC WHK WICC
WISN WJAS WJR WJSV WKRC
WLAC WMAS WMBD WMBG
WNAC WNAX WOKO WORC WQAM
WREC WWL

R — Wayne King and Orchestra

KFYR KPRC KSD KSTP KTBS
KYVO KYW WAVE WBAF WBSN
WCAE WCKY WCHS WDAF WDAY
WEAF WEBC WEEI WFBW WGY
WHO WHIO WIBA WIRE WJAR
WJDX WKY WMAQ WMC WQAI
WOW WRC WSB WSM WSMB WTAG
WTAM WTVL WTMJ WWJ

B — Edgar Guest, Welcome Valley

KDKA KOIL KSO KWK WBAL
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 — Fred Waring and Orchestra

CFRB CKAC KFAB KFBK KFLA
KRLD KRLA KMBC KMOX KOMA KRLD
KRNT KSCJ KTRH KTSB KTUL
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDDO WDRS WEAN
WFBL WFBM WFEA WGST WHAS
WHCC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBW WKBW WKBW WKRC
WLAC WLBS WMAS WMBD WMBG
WMBR WMMN WNAC WNAX
WNBW WNOX WOC WOKO WORC
WOW WPG WQAM WREC WSBT
WSFA WSJS WSPD WTOC WWL

R — Vax Pop; Sidewalk Interviews

KSD KYW WBSN WCAE WCKY
WCHS WDAF WFAF WEEI WFBW
WGY WHO WHIO WIRE WJAR
WMAQ WOW WRC WTAG WTAM
WTVL WWJ

B — Ben Bernie and Orchestra

KDKA KDYL KFI KFSD KFJR
KGW KHQ KOA KOIL KOMO KPO
KPRC KSO KSTP KTAR KTBS
KVOO KWK WAVE WBAL WBAP
WBZ WBZA WDAY WEBC WFIL
WFLA WGAR WHAM WHIO WIDA
WIS WJAX WJDX WJZ WKY WLS
WLW WMAL WMC WMT WQAI
WPTF WREN WRVA WSB WSM
WSMB WSOB WSYR WTAR WTMJ
WWNC WXYZ

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

C — Camel Caravan

KDB KERN KFAB KFBK KFBK
KFPY KFRC KGB KGO KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSB
KTUL KVI KFOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDNC WDDO WDRS WEAN WFBL
WFBM WFEA WGST WHAS WHCC
WHK WHP WIBW WIBX WICC
WJAS WJR WJSV WKBW WKBW
WKRC WLAC WLBZ WMAS WMBD
WMBG WMBR WNAC WNAX
WNOX WOKO WORC WOW WPG
WQAM WREC WSBT WSFA WSJS
WSPD WTOC WWL

R — Fred Astaire; Johnny Green

CBCT KDYL KFI KFYE KGW
KHQ KOA KOMO KPO KPRC KSD
KSTP KTBS KTBS KVOO KYW
WAVE WBAF WBSN WCAE WCKY
WCHS WDAF WDAY WFAF WEBC
WEEI WFBW WFLA WGY WHO
WHIO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WJZ WMAQ
WMC WQAI WOW WPTF WRC
WRVA WSM WSMB WSOB WTAG
WTAM WTAR WTVL WTMJ WWJ
WWNC

B — Husbands and Wives

KECA KEX KFSD KGA KGO KJR
KLO KOIL KSO KWK WBAL WBZ
WBZA WEBR WENR WHAM WJZ
WMAL WMT WREN WSAI WSYR
WXYZ

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

B — Portraits of Harmony

KDKA KECA KFSD KGA KGHL

TUESDAY (Continued)

KGIR KGO KJR KLO KOIL KPRC
K8O KTBS KTHS KWK WAPI WAVE
WBAL WBAP WAB WBZA WCKY
WENR WFIL WFLA WGAR WHAM
WIOD WIRE WIS WJAX WJDX
WJZ WKY WMAL WMC WMT WOAI
WPTF WREN WRVA WSB WSM
WSB WSOC WSUN WSYR WTAR
WWNC WXYZ

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

C — Dance Orchestra
CKAC WAAB WABC WADC WCAO
WCAU WDRB WFBL WFEA WHEC
WHK WIBX WJAS WJSV WKBW
WLBZ WMAS WOKO WORC WSBT
WSPD

R — Amos 'n' Andy, See Monday

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

C — Renfrew of Mounted, See Monday

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

C — Dance Orchestra
CFRB CKAC KLRA KSCJ WAAB
WABC WADC WALA WBBM WBNS
WBRC WBT WCAU WCCO WDAE
WDBJ WDBO WDNC WDDC WDRB
WEAN WFBL WFBM WFEA WGST
WHAS WHEC WHK 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

R — Leo Reisman and Orchestra
KDYL KFI KFSD KGLH KGIR
KGW KHQ KOA KOMO KPO KTAR

WEDNESDAY

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

C — Bobby Benson, See Monday

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

C — Renfrew of Mounted, See Mon.

B — Lowell Thomas, See Monday

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

R — Amos 'n' Andy, See Monday

B — Easy Aces, See Tuesday

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

C — Popeye, See Monday

R — Uncle Ezra, See Monday

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

C — Goose Creek Parson, See Mon.

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 WBBM
WBNS WCAU WCAU WCCO WDRB
WEAN WFBL WFBM WGR WHAS
WHEC WHK WJAS WJR WJSV
WKRC WLAC WMBG WNAC WOKO
WTOC WWL

B — Follics de Paree

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

R — One Man's Family

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KPRC KSD KSTP

KTAR KTBS KTHS KVOO KYW
WAPI WAVE WBAP WBAE WCAE
WCSH WDFW WDAY WFEA WFCB
WEEI WFAA WFRB WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WSUN WTAB WTAM WTAR WTIC
WTMJ WWJ WWNC

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

C — Burns and Allen

CKAC KFAB KFH KLRA KMBC
KMOX KOMA KRLD KRNT KSCJ
KTRH KTHS KTUL KWK WABC
WABC WBBM WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDRB WEAN WFBL WFBM
WFEA WGR WGST WHAS WHEC
WHK WHP WIBX WISN WICC
WJAS WJR WJSV WKRC WLAC
WLBZ WMAS WMBD WMBG
WMBR WNAC WNAX WNOX WOKO
WORC WPG WQAM WREC WSPD
WTL

R — Wayne King, See Tuesday

B — Ethel Barrymore, Drama

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

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

C — Chesterfield Program

KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KGKO KGMB
KHJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA
KRLD KRNT KSCJ KSL KTRH
KTHS KTUL KVI KYOR KWG
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WCOA WDAE
WDBG WDBO WDNC WDDC WDRB
WEAN WFBL WFBM WFEA WGST
WHAS WHEC WHK WHP WIBX
WIBX WICC WISN WJAS WJR
WJSV WKBW WKBW WKRC WLAC
WLBZ WMAS WMBD WMBG
WMBR WNAC WNAX WNBFWNOX
WOC WOKO WORC WOWO WPG
WQAM WREC WSAF WSJS WSPD
WTOC WWL

R — Town Hall Tonight

KFYR KPRC KSD KSTP KTBNS
KTHS KVOO KYW WAVE WBEN
WCAE WCSH WDAF WDAY WFAF
WFCB WEEI WFAA WFRB WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC WSB
WSM WSMB WSOC WTAB WTAM
WTAR WTIC WTMJ WWJ WWNC

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

C — Come On, Let's Sing

KDB KERN KFAB KFBK KFH
KFPY KFRC KGB KGMB KHJ
KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLD KRNT
KSL KTRH KTHS KTUL KVI KWG
KWKH WABC WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRB WEAN WFBL
WFBM WGST WHAS WHEC WHK
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLBZ WMBG
WMBR WNAC WOKO WORC WOWO
WQAM WREC WTOC WWL

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

C — Crime Crusade; Phil Lord

KDB KERN KFAB KFBK KFH

KFPY KFRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KRLD KRNT KSL KTRH
KTHS KTUL KVI KWG KWKH
WABC WACO WBBM WBNS WBRC
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRB WEAN WFBL
WFBM WGST WHAS WHEC WHK
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLBZ WMBG
WMBR WNAC WOKO WORC WOWO
WQAM WREC WTOC WWL

R — Your Hit Parade

KDYL KEX KFI KFYR KGLH
KGIR KGU KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTAR
KTBNS KTHS KVOO KYW WAVE
WCAE WCSH WFSH WDAF WDAY
WFAE WFCB WFAA WFRB WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAC WOAI WOW WPTF
WRC WRVA WSB WSM WSMB
WSOC WSUN WSYR WTAB WTAM
WTAR WTIC WTMJ WWJ WWNC

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

C — Goose Creek Parson, See Mon.

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

R — Amos 'n' Andy, See Monday

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

C — Renfrew of Mounted, See Monday

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

C — Dance Orchestra

CKAC KLRA WAAB WABC WADO
WALA WBRC WBT WCAO WCAU
WDAE WDBJ WDBO WDNC WDOI
WDRB 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 KWOR KWG

THURSDAY

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

C — News of Youth, See Tuesday

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

C — Renfrew of Mounted, See Mon.

B — Lowell Thomas, See Monday

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

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 — Ted Husing, See Tuesday

R — Experience, See Tuesday

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

C — Judy Starr and Charioteers

KDB KERN KFAB KFBK KFPY
KFRC KGB KHJ KLZ KMJ KMOX
KOIN KOL KVI KWG WABC WBBM
WCAO WCAU WCCO WEAN WEEI
WFBL WFBM WGR WHEC WHK
WJAS WJR WJSV WKRC

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 — Kate Smith; Babe Ruth

KFAB KMBC KMOX KRLD KRNT
KTRH WABC WADC WBBM WBIG

THURSDAY (Continued)

WBNS WBRC WBT WCAO WCAU
WOCO WDAE WDBJ WDRG WEAN
WEEI WFBL WFBM WGR WGST
WHAS WHK WHP WIBX WJAS
WJR WJSV WKBN WKRC WLZB
WMA5 WMBG WMBR WOC WOKO
WSPD WTOG WWL WWVA

R — Rudy Vallee's Variety Hour
CFCE CRCT KDYL KFI KFYY
KGW KHQ KOA KOMO KPO KSD
KSTP KTAR KYW WBEW WCAE
WCSH WDAF WDAY WEAF WECB
WEEI WFBM WGY WHO WJAR
WLW WMAQ WOW WRC WTAM
WTIC WTMJ WWJ

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

C — Major Bowes' Amateurs
CFRB CKAC KDB KERN KFAB
KFBB KFH KFPY KFRC KGB
KGKO KLRA KLZ KMBC WMJ
KMOX KOIN KOI KOMA KRLL
KRNT KSCJ KSL KTRH KTSK
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDDO WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBN WKBW WKRC WLAC WLZB
WMA5 WMBD WMBG WMBR
WMMN WNAC WNAX WOC WOKO
WORC WOWO WPG WQAM WREC
WSFA WSJS WSPD WTOG WWL

R — Maxwell House Show Boat
KDYL KFI KFSB KFYY KGHJ
KGIR KWK KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTB5
KYW WAPI WAVE WBAF WBEW
WCAE WCSH WDAF WDAY WEAF
WECB WEEI WFBM WFLA WGY
WHO WHIO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSAI WSB WSM WSBM
WSTG WTAG WTAM WTAR WTIC
WTMJ WWJ WWCN

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

C — Sears—Then and Now
KDB KERN KFAB KFBB KFBK
KFH KFPY KFRC KGB KGKO
KGMB KHJ KLRA KLZ KMBC
KMJ KMOX KOH KOIN KOL KOMA
KRLL KRNT KSCJ KSL KTRH
KTSK KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WCOA WDAE
WDBJ WDBO WDNC WDDO WDRG
WEAN WEEI WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBN WKBW WKRC
WLAC WLZB WMA5 WMBD WMBG
WMBR WMMN WNAX WNOX WOC
WOKO WORC WOWO WPG WQAM
WREC WSBT WSFA WSJS WSMK
WSPD WTOG WWL

R — Bing Crosby; Bob Burns
CFCE CRCT KDYL KFI KFYY
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTB5 KTB5
KVOO KYW WAVE WBAF WBEW
WCAE WCSH WDAF WDAY WEAF
WECB WEEI WFBM WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ

WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSBM WSTC
WTAG WTAM WTAR WTIC WTMJ
WWJ WWCN

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

C — March of Time
KDB KERN KFAB KFBB KFPY
KFRC KGB KHJ KLZ KMJ KMOX
KOIN KOI KOMA KRNT KSL KVI
KWG WABC WBBM WBNS WCAO
WCAU WCCO WDRG WEAN WEEI
WFBL WFBM WGST WHAS WHEC
WHK WJAS WJR WJSV WKBW
WKRK WOKO 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 WKBN
WKBW WLZB WMA5 WOKO WORC
WPG WSBT WSPD

R — Amos 'n' Andy, See Monday

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

C — Renfrew of Mounted, See Monday

FRIDAY

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

C — Bobby Benson, See Monday

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

C — Renfrew of Mounted, See Tues.

B — Lowell Thomas, See Monday

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

R — Amos 'n' Andy, See Monday

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

C — Popeye, See Monday

R — Uncle Extra, See Monday

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

C — Goose Creek Parson, See Mon.

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 — Broadway Varieties
KDB KERN KFAB KFBB KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOI KOMA KRNT
KSL KVI KWG WABC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDRG WEAN WFBL WFBM
WGR WGST WHAS WHK WJAS
WJR WJSV WKRC WMA5 WMBG
WNAC WOKO WWL

R — Cities Service Concert

CRCT KFYY KOA KPRC KSD
KSTP KTB5 KTB5 KVOO KYW
WBAF WBEW WCAE WCSH WDAF
WDAY WEAF WECB WEEI WFAA
WFBM WGY WHO WHIO WIBA
WIOD WJAR WKY WMAQ WOAI
WOW WRC WRVA WSAI WTAG
WTAM WTIC WTMJ WWJ

B — Irene Rich; Drama

KDKA KDYL KFI KGW KHQ KOIL
KOMO KPO KSO K'TAR KWK WAVE
WBAL WBZ WBZA WCKY WFIL
WGAR WHAM WIRE WJZ WIS
WMAL WMC WMT WREN WSB
WSM WSYR WXYZ

E-8:15 p.m., C-7:15, M-6:15, P-5:15

B — Singin' Sam

KDKA KOIL KSO KWK WBAL
WBZ WBZA 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 — Andre Kostelanetz

KDB KERN KFAB KFBB KFH
KFPY KFRC KGB KGKO KGBM
KHJ KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH KTSK
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDDO WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLZB WMA5
WMBD WMBG WMBR WNAC
WNAX WNBW WNOX WOC WOKO
WORC WOWO WPG WQAM WREC
WSFA WSJS WSMK WSPD WTOG
WWL

B — Death Valley Days

KDKA KDYL KFI KGW KHQ
KOIL KOMO KPO KSO KWK WBAL
WBZ WBZA WFIL WGR 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
KFBB KFH KFPY KFRC KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KOIN KOI KOMA KRLL KRNT
KSCJ KSL KTRH KTSK KTUL KVI
KVOR KWG KWKH WABC WAD
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDRG WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WJAS WJR
WJSV WKBW WKRC WLAC WLZB
WMA5 WMBD WMBG WMBR
WNAC WNAX WNOX WOKO WORC
WPG WQAM WREC WSPD WWL

R — Frank Munn; Bernice Claire

KSD KYW WBEW WCAE WCSH
WDAF WEAF WEEI WFBM WGY
WJAR WLW WMAQ WOW WRC
WTAG WTAM WWJ

B — Fred Waring

KDKA KDYL KFYY KOA KOIL
KPRC KSO KSTP KTB5 KWK
WAPI WAVE WBAF WBEW WBZA
WDAY WECB WFAA WFIL WFLA
WGAR WHAM WIBA WIOD WIS
WJAX WJDX WJZ WKY WLS WLW
WMAL WMC WMT WOAI WOW
WPTF WREN WRVA WSB WSM
WSMB WSOC WSUN WSYR WTAR
WTMJ WWCN WXYZ

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

R — True Story Club

KSD KYW WBEW WCAE WCSH
WEAF WEEI WFBM WGY WHO
WHIO WJAR WMAQ WOW WRC
WTAG WTAM WTIC WWJ

B — Rosemarie Brancato; Helen Claire

KDKA KECA KFSB KFYY KGA
KGLH KGIR KGO KJR KLO KOIL
KPRC KSO KSTP KTAR KTB5
KTB5 KWK WABA WAPI WAVE
WBAL WBZ WBZA WCKY WCSB
WDAY WECB WEBR WENR WFAA
WFCB WFIL WFLA WGAR WHAM
WIBA WIOD WIRE WIS WJAX
WJDX WJZ WKY WMAL WMC
WMT WOAI WOOD WPTF WREN
WRVA WSB WSM WSBM WSOC
WSUN WSYR WTAR WTMJ WWCN
WXYZ

FRIDAY (Continued)

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

R — First Nighter; Drama
 KDYL KFI KFJR KGW KHQ KOA
 KOMO KPO KPRC KSD KSTP
 KTBS KTHS KYW WAVE WBNB
 WCAE WCHS WDAF WDAY WEAF
 WEBC WEEI WFAA WFRB WFLA
 WGY WHO WJAX WJOD WIS WJWR
 WJWX WJDX WKY WLW WMAQ
 WMC WPTF WRC WRVA WSB
 WSM WSBM WSOC WTAT WTAM
 WTAR WTIC WTMJ WWJ WWCN

B — Your Radio Guide

CRCT KDKA KOIL KSO KWK
 WBAL WBZ WBZA WENR WFIL
 WGAR WHAM WIRE WJZ WMAL
 WMT WREN WSUR WXYZ

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

R — "Red" Grange, Football
 KDYL KFJR KOA KPRC KSD
 KSTP KTBS KYW WAVE WBNB
 WCAE WCKY WCHS WDAF WDAY
 WEAF WEBC WEEI WFAA WFRB
 WFLA WGY WHIO WJAX WJOD
 WIRE WIS WJWR WJWX WJDX
 WKY WMAQ WMC WOAI WOW
 WPTF WRC WRVA WSB WSBM
 WSOC WTAT WTAM WTAR WTIC
 WTMJ WWJ WWCN

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

R — Amos 'n' Andy, See Monday

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

C — Dance Orchestra

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

C — Renfrew of Mounted, See Mon.

SATURDAY

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

C — News of Youth, See Tuesday

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

C — Royal Football Talks

KGK KMOX WAAB WABC WBBM
 WCAU WHAS WHK WJAS WJR
 WKBW

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

C — Saturday Swing Club

CFRB CKAC KFBB KFH KGB KLZ
 KMBC KNOW KOH KRLD KSL
 KTRH KTHS KVOR KWKH WABC
 WACO WADC WALA WBNS WCAO
 WDAE WDBJ WDBO WDNC WDRS
 WEAF WFBL WFBM WFEA WHAS
 WHEC WHK WIBX WICC WJAS
 WLWB WMBG WMBR WMMN WOC
 WOKO WORC WQAM WSBT WSJS
 WSPD

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

R — Harold "Red" Grange

KDYL KFJR KOA KPRC KSD
 KSTP KTBS KYW WAVE WBNB
 WCAE WCKY WCHS WDAF WDAY
 WEAF WEBC WEEI WFAA WFRB
 WFLA WGY WHIO WJAX WJOD
 WIRE WIS WJWR WJWX WJDX
 WKY WMAQ WMC WOAI WOW
 WPTF WRC WRVA WSB WSBM

WSOC WTAG WTAM WTAR WTIC
 WTMJ WWJ WWCN

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

C — Ted Husing, See Tuesday

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

C — Carborundum Band, list of stations not available.

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

C — Columbia Workshop; Drama

CFRB CKAC KFAB KFH KFRC
 KLRA KMBC KMOX KOMA KRNT
 KTRH KTHS KTUL KWKH WABC
 WBBM WBNS WBRC WBT WCAO
 WCAU WCCO WDAE WDBJ WDBO
 WDRS WEAN WFBL WFBM WGR
 WGST WHAS WHEC WHK WHP
 WICC WISN WJAS WJR WJWX
 WKRC WLAC WLWB WMBG WMBR
 WNAC WOKO WORC WQAM WREC
 WTOC WWL

R — Saturday Night Party

KSD KYW WAPI WAVE WBNB
 WCAE WCHS WCHS WDAF WEAF
 WFRB WFLA WGY WHO WJOD
 WIS WJAX WJWX WJDX WMAQ
 WMC WNAC WOW WPTF WRC
 WSB WSBM WSOC WSUN WTAG
 WTAM WTAR WTIC WWJ WWCN

E — Ed Wynne, coming

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

C — Ed Thorgersen

CKAC KDB KERN KFAB KFBK
 KFYP KFRC KGB KHJ KLZ
 KMBC KMJ KMOX KOIN KOL
 KOMA KRLD KRNT KSL KTRH
 KTHS KTUL KVI KWG WABC
 WBBM WBRC WBT WCAO WCAU
 WCCO WDAE WDBJ WDBO WDRS
 WEAN WFBL WFBM WGR WGST
 WHAS WHEC WHK WISN WJAS
 WJR WJWX WKRC WLAC WMBG
 WMBR WOKO WORC WQAM WREC
 WWL

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

C — Floyd Gibbons; Vincent Lopez

KDB KERN KFAB KFBK KFYP
 KFRC KGB KHJ KLRA KLZ KMBC
 KMJ KMOX KOIN KOL KOMA
 KRLD KRNT KSL KTRH KTHS
 KVI KWG WABC WBBM WBNS
 WBT WCAO WCAU WCCO WDAE
 WDBO WDRS WEAN WFBL WFBM
 WGST WHAS WHK WISN WJAS
 WJR WJWX WKBW WKRC WMBR
 WOKO WQAM WREC WSPD WWL

R — Snow Village Sketches

KSD KYW WBNB WCAE WCHS
 WDAF WEAF WFRB WGY WJAX
 WMAQ WNAC WOW WRC WTAG
 WTAM WTIC WWJ

B — National Barn Dance

KDKA KOIL KPRC KSO KTBS
 KTHS KWK WABY WAPI WAVE
 WBAL WBPB WBZ WBZA WFIL
 WFLA WGAR WHAM WJOD WIRE
 WIS WJAX WJDX WJZ WKY WIS
 WMAL WMC WMT WOAI WOOD
 WPTF WREN WRVA WSB WSBM
 WSOC WSUN WSUR WTAR WWCN
 WXYZ

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

C — Mary Eastman; Gus Haenschen

KDB KERN KFAB KFBK KFH
 KFYP KFRC KGB KGKO KHJ
 KLRA KLZ KMBC KMJ KMOX
 KOIN KOL KOMA KRLD KTRH
 KTHS KTUL KVI KWG KWKH
 WALA WBBM WBIG WBNS WBRC
 WBT WCAO WCAU WDAE WDBO

WDOD WEAN WFBL WFBM WGST
 WHAS WHEC WHK WJAS WJR
 WJWX WKBW WLAC WMBD WMBR
 WNOX WOC WQAM WREC WSFA
 WSPD WTOC WWL WWVA

R — Shell Chateau

KDYL KFI KFSD KFJR KGHL
 KGIR KGW KHQ KOA KOMO KPO
 KSD KSTP KTAR KYW WBNB
 WCAE WCHS WDAF WDAY WEAF
 WEBC WEEI WFRB WGY WJAX
 WJWR WLW WMAQ WOC WRC
 WTAG WTAM WTIC WTMJ WWJ

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

C — Your Hit Parade

KERN KFAB KFBK KFH KFYP
 KFRC KGB KGKO KGMB KHJ
 KLRA KLZ KMBC KMJ KMOX
 KOH KOIN KOL KOMA KRLD
 KRNT KSCJ KSL KTRH KTHS
 KTUL KVI KVOR KWG KWKH
 WABC WACO WADC WALA WBBM
 WBIG WBNS WBRC WBT WCAO
 WCAU WCCO WCAU WDAE WDBJ
 WDBO WDNC WDOD WDRS WEAN
 WFBL WFBM WFEA WGST WHAS
 WHEC WHK WHP WIBW WIBX
 WICC WISN WJAS WJR WJWX
 WKBW WKRC WLAC WLWB WMAS
 WMBD WMBG WMBR WNAC
 WNAX WNAX WOC WOKO WORC
 WPG WQAM WREC WSBT WSFA
 WSJS WSPD WTOC WWL WWVA

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

R — Ervin S. Cobb

KDYL KFI KFJR KGHL KGIR
 KGIR KHQ KOA KOMO KPO KPRC
 KSD KSTP KTAR KTBS KTHS
 KYVO KYW WAVE WBPB WBNB
 WCAE WCHS WDAF WDAY WEAF
 WEBC WFRB WFLA WGY WJAX
 WJOD WIS WJWR WJWX WJDX
 WKY WMAQ WMC WNAC WOOD
 WOW WPTF WRC WRVA WSB
 WSBM WSOC WSUN WTAG WTAM
 WTAR WTIC WTMJ WWJ WWCN

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

C — Dance Orchestra

CFRB CKAC KFH KGKO KLRA
 KLZ KMBC KMOX KOMA KRLD
 KSCJ KSL KTRH KTHS KVOR
 KWKH WABC WACO WADC WALA
 WBBM WBNS WBRC WBT WCAO
 WCAU WCCO WDAE WDBJ WDBO
 WDNC WDOD WDRS WFBL WFBM
 WFEA WGST WHAS WHEC WHK
 WIBW WIBX WICC WISN WJAS
 WJR WJWX WKBW WKRC WLAC
 WLWB WMAS WMBD WMBG
 WMBR WNAX WNOX WOC WOKO
 WORC WQAM WREC WSBT WSJS
 WSMK WSPD WTOC

B — National Barn Dance

KDYL KFI KFSD KFJR KGHL
 KGIR KGU KGW KHQ KOA KOMO
 KPO KSTP KTAR WDAY WEBC
 WJAX 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 KTHS KVOR KWKH WABC
 WACO WADC WALA WBNS WBRC
 WBT WCAO WCAU WDAE WDBJ
 WDBO WDNC WDOD WDRS WEAN
 WFBL WFBM WFEA WGST WHAS
 WHEC WHK WIBW WIBX WICC
 WJAS WJR WKBW WKRC WLAC
 WLWB WMAS WMBG WMBR WNOX
 WOKO WORC WQAM WREC WSBT
 WSJS WSMK WSPD WTOC

SUNDAY

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

C — Major Bowes' "Family"

CFRB KERN KFAB KFBB KFBE
KFH KFPY KFRC KGB KGVO
KMBC KOH KOH KRLD KSL KTRH
KTSa KVI KVOR KWG KWKH
WABC WACO WADC WALA WBNS
WBRC WCAO WCCO WDAE WDBJ
WDBO WDNC WESG WFBL WFEA
WHAS WHK WIBX WJAS WJR
WKRC WLZB WMBD WMBR
WMMN WOC WOKO WORC WPG
WQAM WSBT WSJS WSPD WTOG

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

C — Salt Lake Tabernacle Choir

CFRB KFAB KFBB KFBE KFH
KFPY KFRC KGB KILZ KOH KOH
KRLD KSL KTRH KTSa KVI
KVOR KWG WABC WACO WADC
WALA WBIG WBNS WBRB WCAO
WCCO WDAE WDBJ WDBO WESG
WFBL WFEA WGR WHAS WICC
WJAS WJR WKRC WLZB WMBR
WMMN WOC WOKO WORC WQAM
WSBT WSJS WSPD WTOG

B — Radio City Music Hall

CFRC CRCT KDKA KDYL KFI
KFYR KGO KGW KHQ KOIL KOMO
KPRC KSO KVOO WAPI WBAL
WBZ WBZA WCKY WDAY WEBC
WGAR WHAM WIS WJDX WJZ
WKY WMAL WOAI WREN WSMB
WSYR WWNC

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

C — Trans-Atlantic Broadcast

CFRB CKAC KFH KGKO KLRA
KLZ KMBC KRLD KSCJ KTRH
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
WKBN WLAC WLZB WMBD WMBR
WNAC WOC WOKO WORC WPG
WQAM WWRB WSJS WSMK WSPD
WTOG WWL

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

C — Church of the Air

KFBE KFH KFPY KFRC KGB
KHJ KMOX KOH KOH KOMA KRLD
KRNT KSCJ KSL KTRH KTSa
KVI KVOR KWG WABC WALA
WBNS WBT WCAO WCCO WDAE
WDBJ WDBO WDRC WESG WFBL
WFBM WGR WHAS WHP WIBX
WJAS WJSV WKBN WKRC WLAC
WLZB WMBR WNBW WOC WOKO
WORC WPG WQAM WWRB WSBT
WSJS WSPD WTOG WWYA

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

C — Pittsburgh Symphony

KFAB KLRA KLZ KMBC KMOX
KOMA KRLD KRNT KTRH KTSa
KTUL KWKH WABC WADC WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDRC
WEAN WFBL WFBM WGST WHAS
WHAC WHK WIBX WISN WJAS
WJR WJSV WKBN WKRC WLAC
WMBG WMBR WMMN WNAC
WNOX WOC WOKO WQAM WREC
WTOG WWL

B — Magic Key of RCA

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

KTBS KTHS KVOO KWK WAPI
WAVE WBAL WBZ WBZA WCKY
WDAY WEBC WENR WFAA WFIL
WFLL WGAR WHAM WHIO WIBA
WIOD WIRE WIS WJAX WJDX
WJZ WKY WMAL WMC WMT
WOAI WPTF WREN WRVA WSB
WSM WSMB WOC WSYR WTAR
WTMJ WWNC WXYZ

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

R — Metropolitan Auditions

CFRC KDYL KFI KFYR KGW KHQ
KOA KOMO KPO KSD KSTP KTAR
KYW WAPI WAVE WBN WCAE
WCKY WCSH WDAF WDAY WEAF
WEBC WFBR WGY WHO WIBA
WIRE WJAR WJDX WMAQ WMC
WNAC WOW WRC WSB WSM WSMB
WTAG WTAM WTIC WTMJ WWJ

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

R — Grand Hotel; Drama

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KSD KSTP KYW
WBN WCAE WCSH WDAF WDAY
WEAF WEBC WFBR WGY WHO
WIBA WJAR WMAQ WNAC WOW
WRC WSAI WTAG WTAM WTIC
WWJ

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

C — Your Unseen Friend; Drama

KFAB KLZ KMOX KSL KWKH
WABC WADC WBBM WBNS WCAO
WCAU WCOA WDAE WDBJ WDOB
WDRC WEAN WEEI WESG WFBL
WHAS WHEC WHK WHP WIBX
WJAS WJR WKBN WKRC WLAC
WLZB WMAS WMBG WMMN
WNOX WOKO WORC WOW WQAM
WREC WSMK WSPD WWL WWVA
R — Marion Talley, Soprano
KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KSTP KYW WBN
WCAE WCKY WCSH WDAF WDAY
WEAF WEBC WFBR WGY WHIO
WIBA WIRE WJAR WMAQ WNAC
WOW WRC WTAG WTAM WTIC
WTMJ WWJ

B — We, The People; Phil Lord

KDKA KECA KEX KFSD KGA
KGHL KGIR KGO KJR KLO KOIL
KPRC KSO KTBS KTHS KVOO
KWK WABY WAPI WAVE WBAL
WBAP WBZ WBZA WEBR WENR
WFIL WFLA WGAR WHAM WIOD
WIS WJAX WJDX WJZ WKY WLW
WMAL WMC WMT WOAI WPTF
WREN WRVA WSB WSM WSMB
WSOC WSUN WSYR WTAR WWNC
WXYZ

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

C — Guy Lombardo and Orchestra

KFH KMBC KMOX KOMA KTUL
WAAB WABC WBNS WCAO WCAU
WDRC WEAN WFBL WFBM WGR
WHAS WHEC WHK WIBX WICC
WJR WJSV WMB WOKO WORC
WSPD WWVA

R — Smiling Ed McConnell

KDYL KFI KFYR KGIR KGW KHQ
KOMO KPO KSTP KYW WBN
WCAE WCSH WDAF WDAY WEAF
WEBC WFBR WGY WHO WIBA
WJAR WLW WMAQ WNAC WOW
WRC WTAG WTAM WTIC WTMJ
WWJ

B — Stoopnagle and Budd

KDKA KECA KEX KFSD KGA
KGO KJR KLO KOIL KSO KWK
WBAL WBZ WBZA WCKY WENR

WFIL WGAR WHAM WHIO WIRE
WJZ WMAL WMT WREN WSYR
WXYZ

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

C — Joe Penner; Jimmy Grier

KDB KERN KFAB KFBE KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KSL KTRH KTSa KVI KWG WABC
WBBM WBNS WBT WCAO WCAU
WCCO WDAE WDRC WENR WFBL
WFBM WGST WHAS WHEC WHK
WJAS WJR WJSV WKBW WRCO
WMBG WMBR WOKO WQAM WWL

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

C — Rubinoff and His Violin

KDB KERN KFAB KFBE KFBE
KFH KFPY KFRC KGB KGKO KHJ
KLRA KLZ KMJ KMOX KOH KOH
KOL KOMA KRLD KRNT KSCJ
KSL KTRH KTSa KTUL KVI KVOR
KWG KWKH WABC WACO WADC
WALA WBBM WBIG WBNS WBRB
WBT WCAO WCAU WCCO WCOA
WDAE WDBJ WDBO WDNC WDOB
WDRC WEEI WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBW WIBX WISN WJAS WJR
WJSV WKBN WKBW WKRC WLAC
WLZB WMAS WMBD WMBG
WMBR WNAX WNOX WOC WOKO
WORC WPG WQAM WREC WSBT
WSFA WSJS WSMK WSPD WTOG
WWL WWVA

R — A Tale of Today

KBEN WEAF WGY WJAR WMAQ
WOW WRC WTAM

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

R — Jack Benny; Mary Livingstone

KSD KYA KYW WBN WCAE
WCSH WDAF WEAF WFBR WGY
WHO WJAR WLW WMAQ WNAC
WOW WRC WTAG WTAM WTIC
WWJ

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

C — Phil Baker; Hal Kemp

KLRA KLZ KRLD KTRH KTSa
KTUL KWKH WABC WACO WADC
WALA WBIG WBNS WBRB WBT
WCAO WCAU WCOA WDAE WDBJ
WDBO WDNC WDOB WDRC WEAN
WFBL WFBM WFEA WGR WGST
WHAS WHEC WHK WHP WIBX
WICC WJAS WJR WJSV WKBN
WKRC WLAC WLZB WMAS WMBR
WNAC WNOX WOKO WORC WQAM
WREC WSBT WSFA WJS WSMK
WSPD WTOG WWL WWVA

R — Fireside Recitals

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

B — Ozzie Nelson; Bob Ripley

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

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

R — Sunset Dreams; Morin Sisters

CFRC CRCT KSD KYW WBN
WCAE WCSH WDAF WEAF WFBR
WGY WHO WHIO WIRE WJAR
WLW WMAQ WOAI WOOD WOW
WRC WTAG WTAM WTIC WWJ

SUNDAY (Continued)

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

C — Nelson Eddy; Franca White
 KDB KERN KFAB KFBK KPH
 KFPY KFRC KGB KHJ KLRA KLZ
 KMBC KMJ KMOX KOIN KOL
 KOMA KRLL KRNT KSCJ KSL
 KTRH KTSB KTUL KWKH WABC
 WADC WALA WBBM WBIG WBNS
 WBRC WBT WCAO WCAU WCCO
 WDAE WDBJ WDBO WDOD WDRC
 WEAN WFBL WFBM WFEA WGR
 WGST WHAS WHEC WHK WHP
 WIBX WIBZ WICC WISN WJAS
 WJR WJSV WKBN WKRC WLAC
 WLBB WMAS WMBD WMBR
 WNAX WNOX WOC WOKO WORC
 WQAM WREC WSBT WSFA WSMK
 WTOC WWL WWVA

R — Good Will Court

CFCF CRCT KDYL KFI KFYP
 KGW KHQ KOA KOMO KPO KPRC
 KSD KSTP KTAR KTBS KTHS
 KYOO KYW WAPI WAVE WBEN
 WCAE WCSH WDAF WDAY WFAF
 WFCB WFAA WFRB WFLA WGY
 WHO WIBA WIOD WIS WJAR
 WJAX WJZW WKY WLW WMAQ
 WMC WNAC WOAI WOW WPTF
 WRC WRVA WSB WSM WSMB
 WSOE WSNL WTAG WTAM WTAR
 WTMJ WTVJ WWNC

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

C — Eddie Cantor; Bobby Brown
 KFAB KFH KGKO KLRA KMBC
 KMOX KOMA KRLL KRNT KSCJ
 KTRH KTSB KTUL KWKH WABC
 WACO WADC WALA WBBM WBIG
 WBNS WBRC WBT WCAO WCAU
 WCCO WCOA WDAE WDBJ WDOD
 WDNC WDOD WDOD WDRG WEAN
 WFBL WFBM WFEA WGR WGST
 WHAS WHEC WHK WHP WIBX
 WIBZ WICC WISN WJAS WJR
 WJSV WKBN WKRC WLAC WLBB
 WMAS WMBD WMBR WMMN
 WNAX WNOX WOC WOKO WORC
 WQAM WREC WSBT WSFA WSMK
 WSPD WTOC WWL WWVA

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

R — Manhattan Merry-Go-Round
 CFCF KDYL KFI KFYP KGW
 KHQ KOA KOMO KPO KPRC KSD
 KSTP KTBS KTHS KYW WAVE
 WBEN WCAE WCKY WCSH WDAF
 WDAY WFAF WFCB WFEI WFAA
 WFRB WFLA WGY WHO WHIO

WIBA WIOD WIRE WIS WJAR
 WJAX WJDX WKY WMAQ WMC
 WOAI WOW WPTF WRC WRVA
 WSB WSM WSMB WSOE WTAG
 WTAM WTAR WTMJ WTVJ WWJ
 WWNC

C — Ford Sunday Evening Hour

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
 KTSB KTUL KVI KVOR KWG
 KWKH WABC WACO WADC WALA
 WBBM WBIG WBNS WBRC WBT
 WCAO WCAU WCCO WCOA WDAE
 WDBJ WDOD WDNC WDOD WDRG
 WEAN WFBL WFBM WFEA WGR
 WGST WHAS WHEC WHK WHP
 WIBX WIBZ WICC WISN WJAS
 WJR WJSV WKBN WKRC WLAC
 WLBB WMAS WMBD WMBR WNAC
 WNAX WOC WOKO WORC WQAM
 WREC WSBT WSFA WSJS WSPD
 WTOC WWL WWVA

B — Walter Winchell

KDKA KECA KEX KFSD KGA
 KGHL KGIR KGO KJZ KLO KOIL
 KSO KTAR KWK WBAL WBZ WBZA
 WENR WFIL WGAR WHAM WJZ
 WLW WMAL WMT WREN WSYR
 WXYZ

E-9:15 p.m., C-8:15, M-7:15, P-6:15

B — Paul Whiteman's Varieties
 KDKA KECA KFSD KGA KGHL
 KGIR KGO KJZ KLO KOIL KSO
 KTAR KWK WBAL WBZ WBZA
 WENR WFIL WGAR WHAM WJZ
 WLW WMAL WMT WREN WSYR
 WXYZ

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

R — Album of Familiar Music
 CFCF CRCT KDYL KFI KFYP
 KGW KHQ KOA KOMO KPO KPRC
 KSD KSTP KTBS KYW WAPI
 WAVE WBEN WCAE WCSH WDAF
 WDAY WFAF WFCB WFEI WFAA
 WFRB WFLA WGY WHO WHIO
 WIBA WIOD WIS WJAR WJAX
 WJDX WKY WMAQ WMC WOAI
 WOW WPTF WRC WRVA WSAI
 WSB WSM WSMB WSOE WTAG
 WTAM WTAR WTMJ WTVJ WWNC

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

C — Gillette Community Sing
 CFRB CKAC KDB KERN KFAB

KFBB KFBK KPH KFPY KFRC
 KGB KGKO KGMB KGVO KHJ
 KLRA KLZ KMBC KMJ KMOX
 KOH KOIN KOL KOMA KRLL
 KRNT KSCJ KSL KTRH KTSB
 KTUL KVI KVOR KWG KWKH
 WABC WACO WADC WALA WBBM
 WBIG WBNS WBRC WBT WCAO
 WCAU WCCO WCOA WDAE WDBJ
 WDOD WDNC WDRG WDRG WEAN
 WFBL WFBM WFEA WGST WHAS
 WHEC WHK WHP WIBX WIBZ
 WICC WISN WJAS WJR WJSV
 WKBN WKBW WKRC WLAC WLBB
 WMAS WMBD WMBG WMBR
 WMMN WNAC WNAX WNOX WOC
 WOKO WORC WOWO WPG WQAM
 WREC WSBT WSFA WSJS WSMK
 WSPD WTOC WWL

R — General Motors Concert

CFCF CRCT KDYL KFI KFYP
 KGHL KGIR KGW KHQ KOA
 KOMO KPO KPRC KSTP KTAR
 KTBS KTHS KYW WAPI WAVE
 WBEN WCAE WCKY WCSH WDAF
 WDAY WFAF WFCB WFLA WFRB
 WFLA WGY WHO WHIO WIBA
 WIOD WIRE WIS WJAR WJAX
 WJDX WKY WMAQ WMC WNAC
 WOAI WOOD WOW WPTF WRC
 WRVA WSB WSM WSMB WSOE
 WSNL WTAG WTAM WTAR WTMJ
 WTVJ WWNC

B — Edwin C. Hill

KDKA KECA KFSD KGA KGO
 KJR KLO KOIL KSO KWK WBAL
 WBZ WBZA WENR WFIL WGAR
 WHAM WJZ WLW WMAL WMT
 WREN WSYR WXYZ

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

R — Sunset Dreams; Marine Sisters
 KDYL KFI KFSD KGW KHQ KOA
 KOMO KPO KPRC KTAR KTBS
 KTHS WBAF WDAF WGY

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

B — Paul Whiteman's Musical Varieties
 KECA KEX KFSD KGA KGO KJZ
 KPRC KTBS KTHS WAPI WAVE
 WBAF WJDX WKY WMC WOAI
 WSB WSM WSMB

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

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

CONCERTS

Frank Black, 2 p.m. Sun., B
 Rosario Bourdon, 8 p.m. Fri., R
 Ford Concert, 9 p.m. Sun., C
 Metropolitan Auditions, 3 p.m. Sun., R
 General Motors Concert, 10 p.m. Sun., R
 Pittsburgh Symphony, 2 p.m. Sun., C
 Radio City Music Hall, 12:30 p.m. Sun., B
 Don Voorhees, 8 p.m. Wed., C

DANCE BANDS

Victor Arden, 8 p.m. Wed., B; 8 p.m. Fri., C
 Ben Bernie, 9:00 p.m. Tues., B
 Bunny Berigan, 6:45 p.m. Sat., C
 Ray Block, 10:30 p.m. Mon., R

Jimmie Dorsey, 10 p.m. Thurs., R
 Al Goodman, 9 and 11:15 p.m. Thurs., R
 Benny Goodman, 9:30 p.m. Tues., C
 Johnny Green, 9:30 p.m. Tues., R
 Jimmy Grier, 6 p.m. Sun., C
 Gus Haenschen, 9:30 p.m. Sat., C
 Horace Heldt, 8 p.m. Mon., C
 Richard Himber, 9:30 p.m. Mon., R
 Hal Kemp, 7:30 p.m. Sun., C
 Henry King, 8:30 and 11:30 p.m. Wed., C
 Wayne King, 8:30 p.m. Tues. and Wed., R. 10 p.m. Mon., C
 Andre Kostelanetz, 9 p.m. Wed., C and 8:30 p.m. Fri., C
 Benny Krueger, 8:30 and 11:30 p.m. Mon., C
 Kay Kyser, 8:30 Sat., C

Guy Lombardo, 5:30 Sun., C
 Vincent Lopez, 9 p.m. Sat., C
 Abe Lyman, 8:30 p.m. Mon., B. 9 p.m. Fri., R
 Russ Morgan, 8:30 p.m. Tues., C
 Ozzie Nelson, 7:30 Sun., B
 Raymond Paige, 9 p.m. Fri., C
 Portraits in Harmony, 10:30 Tues., B
 Leo Reisman, 8 and 11:30 p.m. Tues., R
 Jacques Renard, 8:30 p.m. Sun., C
 Harry Salter, 10 p.m. Sat., C
 Andy Sanelia, 9 p.m. Sun., R
 Nathaniel Shilkret, 9:30 p.m., Tues., C
 Harry Sosnik, 10 p.m. Wed., R; 10 p.m. Sun., B
 Rudy Vallee, 8 p.m. Thurs., R
 Peter Van Steeden, 9 p.m. Wed., R
 Don Voorhees, 5:30 p.m. Sun., B
 Fred Waring, 9:00 Tues., C.; 9:00 Fri., B
 Paul Whiteman, 9:15 and 11:30 p.m. Sun., B
 Victor Young, 9:30 p.m. Sat., R

DIALOG

Fred Allen, 9:00 Wed., R
 Amos 'n' Andy, 7 and 11 p.m. daily except Sat. and Sun., R
 Phil Baker, 7:30 p.m. Sun., C
 Jack Benny, 7 and 11:30 p.m. Sun., R
 Milton Berle, 10 p.m. Sun., C
 Bob Burns, 10:00 Thurs., R
 Burns and Allen, 8:30 and 11:30 p.m. Wed., C
 Charles Butterworth, 9:30 Tues., R
 Eddie Cantor, 8:30 p.m. Sun., C
 Irvin S. Cobb, 10:30 p.m. Sat., R
 Easy Aces, 7 p.m. Tues., Wed., Thurs., B
 Ed. Everett Horton, 9:30 p.m. Sat., R
 Fibber McGee and Molly, 8 p.m. Mon., R
 Lum and Abner, 7:30 p.m. daily except Sat. and Sun., B
 Ken Murray, 8:30 p.m. Tues., C
 Jack Pearl, 9:30 p.m. Mon., B
 Joe Penner, 6 p.m. Sun., C
 Pick and Pat, 8:30 and 11:30 p.m. Mon., C
 Popeye the Sailor, 7:15 Mon., Wed., Fri., C
 Babe Ruth, 8 p.m. Thurs., C
 Stoopnagle and Budd, 5:30 p.m. Sun., B
 Uncle Ezra's Radio Station, 7:15 Mon., Wed., Fri., R
 Ed Wynne, 8 p.m. Sat., B

DRAMA

Ethel Barrymore, 8:30 p.m., Wed., B
 Helen Claire, 9:30 p.m. Fri., B
 Columbia Workshop, 8:00 p.m. Sat., C
 Death Valley Days, 8:30 p.m. Fri., B
 First Nighter, 10 p.m. Fri., R
 Gang Busters, 10 p.m. Wed., C
 Goose Creek Parson, 7:30 and 10:45 Mon., Wed., Fri., C
 Grand Hotel, 3:30 p.m. Sun., R
 Helen Hayes, 8:00 Mon., B
 Hollywood Hotel, 9 p.m. Fri., C
 Warden Lawes, 9 p.m. Mon., R
 Log Cabin Ranch, 8 p.m. Tues., B
 Phillips Lord, 10 p.m. Wed., C
 Lux Radio Theater, 9 p.m. Mon., C
 News of Yough, 6:15 p.m. Tues., Thurs., Sat., C
 One Man's Family, 8 p.m. Wed., R
 Renfrew of the Mounted, 6:45 and 11:15 p.m. Mon. thru Fri., C
 Irene Rich, 8 p.m. Fri., B
 Snow Village Sketches, 9 p.m. Sat., R
 Tale of Today, 6:30 p.m., Sun., R
 True Story Court, 9:30 p.m. Fri., R
 Welcome Valley, 8:30 p.m. Tues., B
 Your Unseen Friend, 5 p.m. Sun., C

POPULAR PROGRAMS

Album of Familiar Music, 9:30 p.m. Sun., R
 Major Bowes, 11:30 a.m. Sun. and 9 p.m. Thurs., C
 Broadway Varieties, 8:00 p.m. Fri., C
 Camel Program, 9:30 p.m. Tues., C
 Carborundum Band, 7:30 p.m. Sat., C

Cavalcade of America, 8 p.m. Wed., C
 Chesterfield Program, 9 p.m. Wed., C
 Cities Service Concert, 8 p.m. Fri., R
 Contented Program, 10 p.m. Mon., R
 Come On, Let's Sing, 9:30 p.m. Wed., C
 Community Sing, 10 p.m. Sun., C
 Fireside Recitals, 7:30 p.m. Sun., R
 Fleischmann Variety Hour, 8 p.m. Thurs., R
 Good Will Court, 8 p.m. Sun., R
 Hammerstein's Music Hall, 8 p.m. Tues., C
 Hit Parade, 10 p.m. Red Wednesday: 10 p.m. Sat., C
 Hollywood Hotel, 9 p.m. Fri., C
 Husbands and Wives, 9:30 p.m. Tues., B
 Krueger Musical Toast, 10:30 p.m. Mon., R
 Magic Key of RCA, 2 p.m. Sun., B
 Manhattan Merry-Go-Round, 9 p.m. Sun., R
 March of Time, 10:30 p.m. Thurs., C
 Maxwell House Show Boat, 9 p.m. Thurs., R
 Melodiana, 8:30 p.m. Mon., B
 National Barn Dance, 9:00 and 11:30 p.m. Sat., B
 Packard Hour, 9:30 p.m. Tues., R
 Sears, Then and Now, 10 p.m. Thurs., C
 Sinclair Minstrels, 9 p.m. Mon., B
 Variety Show, 8 p.m. Thurs., C
 Voice of Firestone, 8:30 p.m. Mon., R
 Vox Pop, 9 p.m. Tues., R
 Waltz Time, 9 p.m. Fri., R

SINGERS

Fred Astaire, 9:30 p.m. Tues., R
 Kenny Baker, 7 and 11:30 p.m. Sun., R
 Smith Ballew, 9:30 p.m. Sat., R
 Rosemarie Brancato, 9:30 p.m. Fri., B
 Bobby Breen, 8:30 p.m. Sun., C
 Rachel Carlay, 9 p.m. Sun., R
 Charlottees, 7:30 p.m. Thurs., C
 Bernice Claire, 9 p.m. Fri., R, and 8:30 Mon., B
 Jerry Cooper, 10:30 p.m. Mon., R
 Bing Crosby, 10 p.m. Thurs., R
 Fil D'Orsay, 8 p.m. Wed., B
 Jessica Dragonette, 8 p.m. Fri., R
 Phil Ducey, 8 and 11:30 p.m. Tues., R
 Nelson Eddy, 8 p.m. Sun., C
 Wendell Hall, 10 p.m. Sun., C
 Helen Jepson, 9 and 11:15 p.m. Thurs., R
 Vee Lawnhurst, 7:30 p.m. Thurs., C
 Elizabeth Lennox, 8:00 p.m. Fri., C
 Nino Martini, 9 p.m. Wed., C
 Ed McConnell, 5:30 p.m. Sun., R
 Lucy Monroe, 9:30 p.m. Sun., R
 Morin Sisters, 7:45 and 11 p.m. Sun., R
 Frank Munn, 9:30 p.m. Sun. and 9 p.m. Fri., R
 Jan Peerce, 6:30 p.m. Sun., C
 Carmella Ponselle, 8:00 p.m. Fri., C
 Dick Powell, 9 p.m. Fri., C
 Virginia Lee, 6:30 p.m. Sun., C
 Homer Rodeheaver, 9:30 p.m. Wed., C
 Lanny Ross, 9 p.m. Thurs., R
 Singin' Sam, 8:15 Fri. and 10 p.m. Mon., B
 Sally Singer, 10:30 p.m. Mon., R
 Kate Smith, 8 p.m. Thurs., C
 Oliver Smith, 5 p.m. Sun., C
 Marion Talley, 10 p.m. Fri., R
 Francis White, 8 p.m. Sun., C

TALKS

Boake Carter, 7:45 p.m. Mon. thru Fri., C
 Floyd Gibbons, 9 p.m. Sat., C
 "Red" Grange, 10:30 Fri. and 7 p.m. Sat., R
 Eddie Guest, 8:30 p.m. Tues., B
 Edwin C. Hill, 10 p.m. Sun., B
 Ted Husing, 7:15 p.m. Tues., Thurs., Sat., C
 Bob Ripley, 7:30 Sun., B
 Sidewalk Interviews, 9 p.m. Tues., R
 Lowell Thomas, 6:45 p.m. Mon., thru Fri., B
 Ed Thorgersen, 8:30 p.m. Sat., C
 Trans-Atlantic Broadcast, 12:45 p.m. Sun., C
 Voice of Experience, Tues., Thurs., 7:15 R
 Walter Winchell, 9 and 11:15 p.m. Sun., B

FOREIGN B. C. STATIONS BY FREQUENCIES

Wavelength in meters is given in parentheses following frequencies in kilocycles. Entering dial number in square provided will enable you to identify stations heard. Power is given in second column in kilowatts and decimals thereof. Actual frequency is given in parentheses. While call letters are given wherever possible, very few European stations use these calls. Time is Local unless otherwise stated.

520 (576.6)

- LKH .7 Hamar, Nor. (519)
- OFH 10. Viipuri, Fin. (527)
- RW34 10. Stalingrad, USSR. (522)
- 1. Innsbruck, Aust. (519)
- 5. Ljubljana, Yug. (527)
- 5 Tartu, Est. (517)

530 (565.7)

- IIBZ 10. Bolzano, I. (536)
- 16. Wilno, Pol. (536)

540 (555.2)

- HAL 120. Budapest, Hun. (546)
- Budapest VIII, Sandor Utca No. 7.
- Weekdays 0045-1815; Sun. 315-1900 EST

550 (545.1)

- RW52 20. Tchita, USSR. (556)
- 2CR 10. Cumnock, Ausl.
- 100. Beromunster, Sw. (556) Report to PTT, Berne, Speichergrasse No. 6.
- Weekdays 600-1633 Sun. 130-1630 EST

560 (535.4)

- I1PA 4. Palermo, I. (565)
- MTCY 100. Hsinking, Mch.
- RW41 1.2 Syktyvkar, USSR. (563)
- RW42 10. Gorki, USSR. (565)
- XGOG 10. Chengtu, China.
- XLHB .045 Shanghai, China.
- ZUG 10. Grahamestown, S. Af.
- SWA 10. Minding, Ausl.
- 60. Athlone, IFS (565) Radio Atha Luain. Daily 830-1800 EST
- 10. Kiaipeda, Lithuania (Memel)

570 (526)

- CBS7 5. Santiago, Chile, Soc. Nacional Agricultura Tcheliabinsk, USSR. (577)
- XHJA 1. Hankow, China
- 2YA 5. Wellington, N. Z. Featherstone St. Mon. to Sat. 700-900; 1000-1100; Sun. 900-1215; 1300-1430; 1800-2200.
- 100. Stuttgart, G. (574) Charlottenplatz No. 1 Daily 0000-2000 EST.
- 10. Magnitogorsk, USSR. (571)

580 (516.9)

- CC58 .5 Temuco, Chile, Luis E. Brain.

- JFCK 1. Taichu, Formosa.
- RW36 10. Archangel, USSR (586)
- RW54 10. Khabarovsk, USSR.
- XQHA .25 Shanghai, Chn.
- YLZ 15. Riga, Lat. (583)
- 3AR 4.5 Melbourne, Ausl. 120A Russell St. Grenoble, F. (583) Daily 300-1730 EST
- 15.

590 (508.2)

- JOAK1 150. Tokyo, Japan
- JOAK2 10. Tomabecio, EST. M. Daily 4 a.m.-7:30 a.m.
- LS10 6. Buenos Aires, Arg. Radio Callao, Callao (666)
- RW35 10. Astrakhan, USSR (598)
- XGOH .15 Changsha, China
- XHKH .1 Tsingtau, China.
- 7ZL 1. Hobart, Ausl. Elizabeth St. Mon. to Fri. 830-1030; 1200-1530; 1630-1800; 1900-1000; Sat. 830-1000; 1230-1300; Sun. 1200-300; 1630-1830; 1915-2400
- 120. Vienna, Aust. (592) Wein No. 1, Johannestrasse No. 4B. Daily 310-1900 EST

600 (499.7)

- CNR 25. Rabat, Mor. (601) Radio Maroc., Office Cheriffien des Postes et Telegraphes.
- FJP .5 Noumea, New Caledonia.
- JONG .5 Miyazaki, Japan (CP)
- PRH2 25. Porto Alegre, Brz. (now building)
- RW82 2.5 Frounze, USSR. (608)
- SBD 10. Sundsvall, Swe. (601)
- XMHA 1. Shanghai, China.
- ZTC 10. Cape Town, S. Af.
- 4QN 7. Clevedon, Ausl.

610 (491.5)

- CX4 1. Montevideo, Uru. Direccion de Agronomia, Millan, 746; 10-12; 17-19
- IIFI 20. Florence, I. EIAR Stazione di Firenze. Weekdays 130-1730; Sun. 310-1730 EST
- JODK2 10. Seoul, Ko.
- KZRM 50. Manila, P. I. (618.5) Daily 600-2300
- RW18 1. Pratigorsk, USSR
- RW22 10. Oufa, USSR. (617)
- RW50 2.5 Oust Abakansk, USSR (617)
- RW79 10. Murmansk, USSR.

- XGSS .015 Tsunshi, Chn.
- 2FC 3.5 Sydney, Ausl. 96 Market St. Mon. to Fri. 830-930; 1100-1300; 1330-930; 1630-1745; 1900-1000; Sat. 830-930; 1100-1830; 1900-1000; Sun. 1130-1345; 1630-1815; 1930-2400

620 (483.6)

- CB62 1. Santiago, Chi. Radio Chilena. Lisbon, Por. (629) Emisora Nacional. Daily 700-1900 EST
- JOTK .5 Matsuyae, Jap. (625)
- LKT 20. Trondelag, Nor. (629)
- LV3 2. Cordoba, Arg.
- RW31 10. Ivanovo, USSR. (625)
- XHHK .1 Shanghai, China
- 4ZP .1 Invercargill, N. Z. R. T. Parsons, 155 Layard St. N.
- No. 1 15. Brussels Belg. la Rue du Bastion Weekdays 655-1800; Sun. 445-1900 EST
- 20. Cairo, Egypt.

630 (475.9)

- JODG .5 Hamamatsu, Jap. (635)
- LS3 5. Buenos Aires, Arg. Radio Mayo, Callao 1526
- OKP 120. Praha, Cz. (633) The Radio Journal, Praha, Cz. Daily 0030-1730 EST
- RW28 .8 Vladivostok, USSR. (635)
- RW32 10. Vladivostok, USSR. (635)
- RW84 1.2 Oust-Abakansk, USSR. (635)

640 (468.5)

- CB64 1. Vina del Mar, Chile. La Union, Av. Portales 528
- CC64 .1 Concepcion, Chile. El Sur, Freyre 799
- JOUK .3 Akita, J. (645)
- RW29 10. Petrozavodsk, USSR. (648)
- RW56 1.2 Penza, USSR.
- XLHG .1 Shanghai, China.
- YN 90. Lyons, F. (648). La Doua (testing) Daily 215-1800 EST
- ZEK .5 Hong Kong, Chn. GMT Mon., Thurs., Sat., from 12:30. The Secretary, Hong Kong

FOREIGN B. C. STATIONS BY FREQUENCIES

Brdctg. Com., P. O. Box 200.
ZTJ 10. Johannesburg, S. Af. (645)
5CK 7.5 Crystal Brook, Ausl. Relays 5CL Mon. to Fri. 9-10; 1230-1600; 17-1830; 1930-130; Sat. 9-1030; Sun. 1230-1530; 17-19; 1945-0030

650 (461.3)

CX6 10. Montevideo, Uru. Estacion Oficial, Martin Fierro 2603. 12-14; 17-23
JOCG 3 Asahigawa, J. (655) Pres. NBC, Hokkaido Asahikawa Branch, EST Daily 11 p.m.-7:30 a.m.
JQAK 5 Dairen, Mnch. (652)
1YA 10. Auckland, N. Z. Karangahape Rd. Mon. to Sat. 7-9; 10-23; Sun. 9-1215; 13-1630; 18-22
 100. Cologne, G. (655) Dagoberlstrabe No. 38 Daily 0000-1800 EST

660 (454.3)

XGOA 75. Nanking, Chn.
RW38 2. Alexandrovsk USR. (662)
7BU .05 Burnlie, Ausl.
 20. Jerusalem, Pal. (665)
 70. Manchester, G. B. (668) North Regional Weekdays 515-1500; Sun. 730-1745 EST

670 (447.5)

JFAK 10. Taihoku, For.
LS4 7. Buenos Aires, Arg. Radio Portena, Belgrano 1841
MTFY 3. Harbin, Mnch. (674)
RW23 1. Grozny, USR. (676)
YV6RV 35 Valencia, Vnz.
2CO 7.5 Corowa, Ausl. Relays ILO and 3AR. Mon. to Fri. 830-13; 1330-1530; 1630-1745; 19-1; Sat. 830-1030; 1130-13; 1330-1830; 19-100; Sun. 1130-1345; 1430-1815; 1930-2400
 100. Sottens, Swi. (677) Report to PTT Berne, Speichergasse No. 6. Weekdays 630-1630; Sun. 355-1630 EST

680 (440.9)

CB68 1. Valparaiso, Chile.
CW27 .25 Salta, Uruguay. Ernesto Popelka
HJN 5 Bogota, Col. (681)
JOLK 5 Fukuoka, J.
JOVK 5 Hakodate, J.
LKD 5 Bodo, Nor. (686)
RW17 10. Kazan, USR. (686)
RW27 4. Makhatch, USR (689)

RW46 1.2 Karaganda, USR. (686.5)
RW71 1.2 Petropavlovsk, USR. (689)
RW74 1.2 Tcheboksary, USR. 2.5 Belgrade, Yug. (686) 1.5 Salisbury, S. Af. (681.9)

690 (434.5)

CX8 5 Montevideo, Uru. Ramon Puyal, Caigua 3710
LV6 5 Mendoza, Arg. Radio Prov. de Mendoza.
XGOY .25 Kunming, China.
SWF 1.5 Perth, Ausl. Hay St. Mon. to Fri. 1030-1230; 1400-1730; 1830-20; 21-3; Sat. 1030-12; 1430-3; Sun. 14-17; 1830-2030; 2115-200
 120. Paris, F. (695) FPTT Daily 300-1800 EST

700 (428.3)

JOKK 5 Okayama, J.
PRA7 .05 Sao Paulo, Brz., Rua Tibirica 26 (706)
RW48 2.5 Elista, USR. (704)
SBA 55. Stockholm, Swe. (704) Weekdays 145-1700; Sun. 3-17 EST
VPB 1.75 Colombo, Coy. (705)
XMHC 5 Shanghai, Chn.
ZP15 .. Villarrica, Par.
2NR 7. Grafton, Ausl.

710 (422.3)

IIRO 50. Rome, I. (713) Weekdays 130-1730; Sun. 335-1730 EST
JOJK 3. Kanazawa, J.
LS1 5. Buenos Aires, Arg. Radio Municipal, Teatro, Colon
RW16 10. Samara, USR.
XGML .0075 Kashing, Chn. (714.3)
XGOS 1 Chungking, Chn. (711)
7NT 7. Kelso, Australia

720 (416.4)

JFBK 1. Tainan, For.
JORK 5 Kochi, J. Mr. Matsuo, Mgr., EST Daily 10:15 p.m.-7:30 a.m.; Sun., 10:30 p.m.-7:30 a.m.
PRF2 .25 Rio Claro, Brz. (725) Radio Club of Rio Claro
PRG5 .75 Santos, Brz. Radio Atlantica
RW9 36. Kiev, USR. (722)
XLHC .05 Shanghai, Chn.
XLHD .05 Shanghai, Chn.
3YA 10. Christchurch, N. Z. Gloucester St. Mon. to Sat. 7-9; 10-23; Sun. 9-1215; 13-1630; 1730-22
SGF 2. Kalgoorlie, Ausl.

730 (410.7)

CB73 1. Santiago, Chile. Ultimas Noticias. Compania 1258
CX10 1. Montevideo, Uru. Internacional Brdctg. Industria 2840; 11-15; 16-24
EAJ2 3. Madrid, Sp. (731) Radio-Espana
EAJ5 5.5 Seville, Sp. (731) Daily 230-1630 EST
JOSK 1. Kekura, J. (735)
LV1 1. San Juan, Arg. Radio Graffingnan, C. de Correo 44
RW65 1. Saransk, USR. (734)
XHGS .05 Wuchow, Chn.
5CL 2. Adelaide, Ausl. Hindmarsh Square. Same Schedule as 5CK, 640 kc.
 20. Tallin, Est. (731)

740 (405.2)

OFD 1. Pori, Fin. (749)
PR6G 1.5 Uberaba, Brz.
RW64 10. Ordjonikidze, USSR. (749)
XHNB .05 Shanghai, Chn.
2BL 3. Sydney, Ausl. 96 Market St. Mon. to Fri. 830-1100; 13-19; 1930-2400; Sat. 830-11; 13-19; 1930-130; Sun. 1225-1630; 18-2330
 100. Munich, G., Funkhaus Rundfunkplatz No. 1 Daily 0000-1800 EST
 120. Marseilles, F. (749) PTT Daily 245-17 EST
 2. Sortavala, Fin. (749)

750 (399.8)

H57PJ 15. Bangkok, Siam
JOBK1 10. Osaka, J.
LR7 15. Buenos Aires, Arg. Radio del Estado
LUHO .02 Y'ung Hsien, Chn.
OAX4A 1.5 Lima, Peru. Daily 11 a.m.-1 p.m.; 6-7; 9-11 p.m.
PRA2 1.5 Rio de Janeiro, Brz. Rua da Carcoca 45
PRA8 3. Pernambuco, Brz. Ave. Cruz Cabuga 334
RW64 10. Urdjonikidze, USR. (752)
X00K 1. Canton, Chn.
XQKB .15 Tientsin, China
YV4RC 1 Caracas, Vnz.
ZTD 1.5 Durban, S. Af.
 12. Katowice, Pol. (753)
 10. Maritzburg, S. Af.

760 (394.5)

CB76 10. Valparaiso, Chi. Co-op. Vitalicia, Agustina 1253, 9 Piso

FOREIGN B. C. STATIONS BY FREQUENCIES

PRD9 .25 Sorocaba, Brz. (769)
Radio Soc. Sorocaba
RJWSK, USR. (767)
RW78 3. Ijevsk, USSR. (767)
XLHI .0075 Shanghai, Chn.
XLHJ .015 Shanghai, Chn.
2YB .1 New Plymouth, N. Z.
Empire Bldg., King
St. Mon. 19-22; Wed.
1830-22; Sat. 1330-17;
1830-22; Sun. 18-22
..... 50. Falkirk, G. B. (767)
Scottish Regional
Weekdays 515-19;
Sun. 730-1730 EST

770 (389.4)

CX12 1. Montevideo, Ur.
Radio Westinghouse,
Itacabo 2620; 10-23
JOHK 10. Sendai, J.
LKF 1. Frederikstad, N. (776)
RW26 10. Stallone, USR. (776)
VUM .2 Madras, In.
XHID .075 Ningpo, China
3LO 3.5 Melbourne, Ausl.
120A Russel St. Mon.
to Fri. 830-930; 11-13;
1330-1530; 1630-1745;
19-1; Sat. 830-930; 11-
1830; 19-1; Sun. 1130-
1345; 1630-1815; 1930-
24
..... 2. Toulouse, F. (776)
PTT Daily 330-1730
EST

780 (384.4)

CB78 1. Santiago, Chile. Co-
operative Vitalicia,
Agustina 1253, 9 piso
JOPK .5 Shizuoka, J.
KZEG 1. Manila, P. I.
Daily 8-20
LT1 5. Rosario, Arg. Radio
Litoral, Coroba 1049
Sao Paulo, Brz. (788)
Radio Cosmos, Praca
Marechal Deodora 52
XLHA .05 Shanghai, Chn.
..... 120. Leipzig, G. (785)
Temporarily on low
power.
Daily 00-18 EST

790 (379.5)

EAJ1 7.5 Barcelona, Sp. (795)
Union Radio. Daily
215-19 EST
JOGK 10. Kumamoto, J.
LR10 10.25 Buenos Aires, Arg.
Radio Cultura, Bel-
grano 1841
RW51 1. Naltchik, USR. (794)
XLJ .05 Wushih, China
ZTB .5 Blomfontaine, S. Af.
4YA 10. Dunedin, N.Z. Stuart
St.
..... 16. Lwow, Pol. (795)
Polskie Radio SA,
Rozgloszenia we Lwowie
Daily 1-18 EST

800 (374.8)

JOKG .5 Kofu, Japan. (CP)
PRB7 .5 Rio de Janeiro, Brz.
XLHK .0075 Shanghai, Chn.

XLHL .1 Shanghai, Chn.
4QG 2.5 Brisbane, Ausl. State
Insurance Bldgs.
Mon. to Fri. 830-1030;
12-1530; 1630-18; 19-1;
Sat. 830-10; 1230-1;
Sun. 12-15; 1630-1830;
1915-24
..... 70. Cardiff, G. B. (804)
West Regional
Weekdays 515-1900;
Sun. 730-1745 EST

810 (370.2)

CX14 5. Montevideo, Ur.
El Espectador Ltd.,
Lanus 5760. 10-24
IIMI 50. Milan, I. (814)
Radio Milano, Corso
28, Ottobre 102, Mil-
ano 134
Weekdays 130-1730;
Sun. 330-1730 EST
JOCK1 10. Nagoya, J.
PRA6 10. Sao Paulo, Brz. (815)
Radio Educadora
Paulista. Rua Jose
Bonifacio 12
VUC 3. Calcutta, In.
XQKC 2. Tientsin, China

820 (365.6)

CB82 1. Santiago, Chi. El
Diario Ilustrado,
Moneda 1158. 9-10;
12-14; 16-1830; 20-24
CW23 .25 Salto, Uruguay. Mo-
desto Llantada
LV7 1. Tucuman, Arg.
G. Acha Munoz y Cia.
Mendoza 437
PRH8 5. Rio de Janeiro, Brz.
Radio Ipanema
Shanghai, China
2LV .1 Invernell, Australia
2ZH .065 Napier, N. Z.
C. B. Hansen & Co.,
59 Latham St., Mon.,
Tue., Fri., 12-14; 19-
22; Wed. 12-14; 1830-
2230; Thu. 12-14; Sat.
10-17; 19-23; Sun. 12-
15; 1830-22
..... 12. Bucharest, Ru. (823)
Weekdays 6-1730;
Sun. 430-1830 EST

830 (361.2)

JOIK 10. Sapporo, J. T. Okada,
Chf. Engr. EST Daily.
4 a.m.-7:30 a.m.
LR5 29. Buenos Aires, Arg.
Radio Excelsior, Mal-
pu 462
RW39 100. Moscow, USR. (832)
Inna Marr, Esq.
Moscow-Stalin Radio
Station.
Daily 9-1630 EST
XGF .0075 Tsinan, Chn. (833)
XLII .03 Wuhu, Chn.
3GI 7. Longford, Ausl.

840 (356.9)

CB84 1. Valparaiso, Chile
CC84 .1 Talcahuano, Chile

F31CD 12. Saigon, Indo.
Cie Generale de Tele-
graphie sans Fil, P. O.
Box, 238

LT8 .5 Rosario, Arg.
Julio Blomberg, Sar-
miento 958

PRA4 .05 Bahia, Brz. Radio
Sec. da Bahia

XGTM .015 Chang-sha, Chn.
XMHD 1. Shanghai, Chn.
ZBW 2. Hongkong, C. (845)
The Secretary, Hong
Kong Brdctg. Com.,
P. O. Box 200.

2YC .25 Wellington, N. Z.
Featherstone St.

..... 100. Berlin, G. (841)
Radio Reichsender,
Berlin Brdctg. House
Daily 0000-1800 EST

850 (352.7)

CX16 10. Montevideo, Ur.
SADREP, Av. S. Mar-
tinez 13500

EAJ3 3. Valencia, Sp.

HSPI 2.5 Bangkok, Siam (856)

JOFK 10. Hiroshima, J.

LKA .35 Aalesund, Nor.

LKB 1. Bergen, Nor.

LKP 1. Porsgrund, Nor.

PRB3 .25 Juiz de Fora, Brz.
(857)

Radio Soc. de Juiz de
Fora, Parque Halfeld
Simferopol, USR.

..... (859)

VQ7LO .6 Nairobi, Ken. (858)

VUB 3. Bombay, In. (855)

XGOF .5 Tsinan, China

XLIQ .05 Hangchow, China

SRM 1. Renmark, Ausl.
River Murray Brd-
csters, Ltd., 23 Run-
dle St., Adelaide

..... 1. Sofia, Bul.

..... 35. Strasbourg, F. (859)

Radio Strasbourg

PTT, 30 Rue de 22

Norv. Weekdays 545-
19; Sun. 1630-19 EST

..... 19; Sun. 1630-19 EST

860 (348.6)

PRA3 2.5 Rio de Janeiro, Brz.
Radio Club de Brasil,
Rua Betancourt da
Silva 21

XHHD .05 Shanghai, China.

4AY .3 Ayr, Australia

7HO .12 Hobart, Ausl. 82 Eliz-
abeth St.

..... 16. Poznan, Pol. (868)
Daily 1-18 EST

..... Daily 1-18 EST

870 (344.6)

JOAK1 10. Tokyo, J. M. Toma-
becio, EST Daily 4
a.m.-7:30 a.m.

LR6 26. Buenos Aires, Arg.
La Nacion, Florida 347

RW85 2. Iqarka, USR. (871)

XHB .075 Suchow, Chn.

2GC 1. Sydney, Ausl. "The
Nation's Station".
Adyar House, 29
Bligh St., Mon. to

FOREIGN B. C. STATIONS BY FREQUENCIES

Sat. 830-1; Sun. 930-1330; 1415-24
 70. London, G. B. (877)
 London Regional.
 Weekdays 515-1930;
 Sun. 730-1745 EST

880 (340.7) []

PRB2 .25 Curitiba, Brz. (882)
 Radio Club Paranaense
 RW61 1. Iochar-Ola, USR. (888)
 VUD 20. Delhi, India. (882)
 XHHV .1 Shanghai, Chn.
 YV3RC .1 Caracas, Venz. (882)
 1YX .15 Auckland, N. Z.
 6PR .5 Applecross, Ausl.
 Barrack St., Perth
 7. Graz, Aust. (886)
 Daily 310-19 EST
 15. Linz, Austria (886)

890 (326.9) []

CB89 1. Santiago, Chile. Otto
 Becker, Ahuamada
 113
 CX18 1. Montevideo, Uruguay
 Difusora El Espectador,
 Ltda., Olimar
 1364
 JOLG .5 Totteri, Japan. (CP)
 MTBY 1. Mukden, Mnch.
 OFA 10. Helsinki, Fin. (895)
 XGKA .015 Kasing, Chn. (895)
 ZP9 1.5 Asuncion, Par. (898)
 5. Limoges, F. (895)

900 (333.1) []

CB90 1. Valparaiso, Chile, El
 Murcurio de Val.,
 Casino de Vina del
 Mar.
 JODK1 10. Seoul, Korea
 KZIB 1. Manila, P. I.
 Daily 10-20
 LU2 2. Bahia Blanca, Arg.
 Radio Bahia Blanca.
 PRF3 5. Sao Paulo, Brz. (CP
 60 kw) Radio Difusora
 Sao Paulo.
 XGOI .5 Shanghai, China.
 Z2P .105 Wairoa, N. Z.
 E. A. Perry, 128 Queen
 St. Tue. 7-9; 18-2230;
 Wed. to Sat. 7-9; Sun.
 730-930.
 3MA .1 Mildura, Ausl.
 22 Deakin Ave. Mon.
 to Thu. 9-10; 12-13;
 1930-24; Fri. 9-10; 12-13;
 1930-0030; Sat.
 9-10; 1930-0030; Sun.
 1230-1530; 1945-2330.
 4WK .05 Warwick, Ausl.
 King and Albion Sts.
 Daily 1230-1530; 19-
 2330.
 100. Hamburg, G. (904)
 Radio Reichssender
 Hamburg. Daily 00-
 18 EST

910 (329.6) []

LR2 12. Buenos Aires, Arg.
 Radio Argentina, Bol-
 iver 1356
 RW30 10. Dnepropetrovsk,
 USR., (913)
 Amoy, Chn.
 XLIM .05 Rockhamton, Ausl.
 4RK 2. Relays 4QG. Same
 schedule as 4QG, 800
 kc.
 60. Toulouse, F. (913)
 Villa Schmidt, Rue
 Monie. Daily 3-1930
 EST

920 (325.9) []

JOQK .5 Niigata, J.
 OKB 32. Brno, Cz. (922)
 Daily 0030-1730 EST
 PR3 .25 Pelotas, Brz.
 Soc. Radio Pelotense
 PRF4 10. R'de Janeiro, Brz.
 (923). Soc. Anonima
 "Journal de Brasil"
 XHHX 1. Shanghai, Chn.
 ZJV .4 Suva, Fiji
 ZZR .03 Nelson, N. Z.
 Trafalgar St. Tem-
 porarily silent.

930 (322.4) []

CB93 2.5 Santiago, Chile.
 Huque, Providencia
 1022
 CX20 2. Montevideo, Uru.
 Radio Monocario,
 Humberto I No. 3.
 11-1430; 16-24
 JOAG .5 Nagasaki, J.
 PRD2 1. R'de Janeiro, Brz.
 (932) Soc. Radio Cru-
 ceiro do Sul; Rua
 Mariz e Barros 270
 Engels, USR. (932)
 VUG 1. Delhi, India
 3UZ .6 Melbourne, Ausl.
 45 Bourke St. Mon.
 to Thu. 830-1530;
 1645-1000; Fri. 830-16;
 1645-1000; Sat. 830-
 1330; 1930-1330; Sun.
 1130-1400; 1915-2330
 No. 2 15. Brussels, Belg. (932)
 Weekdays 7-19; Sun.
 5-19 EST

940 (319) []

JONK .5 Nagano, J. K. Yanada,
 Dir. EST Daily
 4-1930
 PRE4 .25 Rio de Janeiro, Brz.
 (941). Soc. Radio Cul-
 tura "A Voz do Es-
 pacao"
 SBB 10. Goteborg, Swe. (941)
 Weekdays 145-17;
 Sun. 3-17 EST
 XHHE 1. Shanghai, Chn.
 3ZR .175 Greymouth, N. Z.
 12. Algiers, Alg. (941)
 Radio PTT du Govt.
 Gen., Rue Berthe-
 zone, Alger, Algeria.
 N. At.
 Daily 8-18 EST

950 (315.6) []

LR3 31. Buenos Aires, Arg.
 Radio Belgrano, Belgrano
 1841
 PP 60. Paris, F. (959)
 Poste Parisien, 4 Rue
 du General-Foy.
 Daily 210-18 EST
 PRF8 .5 Bahia, Brz. (959) Radio
 Commercial da
 Bahia
 RW40 1. Gomel USR. (959)
 RW54 1. Gomel, USR. (959)
 XGOP .3 Peiping, Chn.
 ZTP .5 Pretoria, S. Af. (952)
 ZUE 1. Sydney, Ausl. Rex
 Shaw, 296 Pitt St.,
 Mon. to Fri. 730-15;
 16-1; Sat. 730-1230;
 1500-1330; Sun. 930-
 1330; 1815-0030.
 100. Breslau, G. Slesische
 Funkstunde,
 GMBH, Breslau 18
 Daily 23-18 EST

960 (312.3) []

CC96 .1 Curico, Chile. Mer-
 ced 11
 JOOK .3 Kyoto, J.
 LV2 2. Cordova, Argentina
 Santos, Brz. Radio
 Club de Santos, Rua
 de Pedro II 16.
 RW13 10. Odessa USR. (968)
 XHHF .1 Shanghai, Chn.
 YV1RC .5 Caracas, Venz. (961)
 Brcstg. Caracas, Apt
 de Correos 2009. Sun.
 9-23; Weekdays 16-
 2230
 ZZF .15 Palmerston, N. Z.
 King St.
 SDN .3 Adelaide, Ausl.
 29 Rundle St., Mon.
 to Fri. 915-115; Sat.
 915-15; 20-115; Sun.
 845-0015.
 2.5 Bordeaux-sud-Ouest,
 France (968)

970 (309) []

CB97 1. Santiago, Chile.
 Siam, Belivar 1551
 CX22 .25 Montevideo, Uru.
 Fada Radio, Larranga
 278. 1030-1530; 17-23
 JOBG .5 Maebashi, J.
 XHIB .075 Wushih, Chn.
 3BO 2. Bendigo, Ausl.
 Kangaroo Flat. Mon.
 to Fri. 1230-1500; 19-
 24; Sat. 1230-24; Sun.
 1130-1430; 2030-2330
 100. Belfast, G. B. (977)

980 (305.9) []

II8E 10. Genoa, I. (986) EIAR
 Stazione di Genova.
 Weekdays 130-1730;
 Sun. 310-1730 EST
 JOXK .5 Tokushima, J. T.
 Tsutusumi, Chf. Engr.
 EST Daily 2205-730;
 Sun., 2230-730
 OAX4E .85 Lima, Peru, Juan P.,

FOREIGN B. C. STATIONS BY FREQUENCIES

Goincochea, Jiron
Ocona No. 158
PRCS 1. R'de Janeiro, Brz.
Sec. Radio Philips,
Rua Sacadura Cabral
43
XMHB 5. Shanghai, Chn.
2ZJ 2. Gisborne, N. Z.
229 Gladstone Rd.
6AM 2. Northam, Austl.
Mon. to Sat. 10-12;
1530-1730; 21-2; Sun.
1330-1730; 1830-2030;
2130-1330
..... 24. Torun, Pol. (986)
(Testing)

990 (302.8) []

JOFG 3. Fukui, J.
LR4 16. Buenos Aires, Arg.
Radio Splendid, Cal-
lao 1526. Daily 11-24
PFBI 60. Hilversum, Hol. (995)
Heir Radio Hilver-
sum, Ouden, Engweg,
4. Daily 11h-1810 EST
XGCK 075. Chungking, Chn.
XGOD 2. Hangchow, Chn.
2GZ 2. Orange, Ausl.

1000(299.8) []

HJ3ABH 2. Bogota, Col. (1005)
"La Voz de La Vic-
tor", Apto 565. Sun.,
12-14; 16-21; Wednes-
days 1130-14; 18-23
OKR 13.5. Bratislava, Cz. (1004)
Daily 0030-1730 EST
PRA9 1. Rio de Janeiro, Brz.
Radio Soc. Mayrink
Veiga, Rua Mayrink
Veiga 17
PRBS 05. Mogy das Cruzes, Brz.
XGMK 015. Poatung, Chn. (1005)
XGOT 05. Taiyuan, Chn.
ZP3 3. Asuncion, Par.
4GR 5. Tuwoomba, Ausl.
Ruthven St. Mon. to
Fri. 8-1530; 19-2230;
Sat. 8-1130; 1930-2330;
Sun. 1130-1430; 030-
2330

1010(296.9) []

CB101 1. Santiago, Chile.
Radio Mayo, Bander
154
CX24 2.5. Montevideo, Uruguay
SADREP, Las Rozas
755
PRB9 5. Sao Paulo, Brz. (1017)
Radio Soc. Record,
Praca da Republica 17
RW86 5. Tchernigov, USSR.
(1013)
XGOW 5. Hangkow, Chn.
3HA 3. Hamilton, Ausl. 37
Gray St., "The Age
Brdctg. Service".
Mon. to Sat. 830-1030;
1330-1745; 1915-2400;
Sun. 1230-1800; 2015-
0030
4ZB 02. Dunedin, N. Z. 180
Rattray St.
4ZM 03. Dunedin, N. Z.
McCracken & Wells

4Z0 025. Dunedin, N. Z.
Mon. 12-13; 14-15; 20-
23; Tue., Wed., Thu.,
12-13; 14-15; 17-18;
Fri. 12-13; 14-15; 17-
18; 19-23; Sat. 12-13
..... 70. Daventry, G.B. (1013)
Midland Regional.
Weekdays 545-1815;
Sun. 1130-1745 EST

1020(293.9) []

EAJ15 3. Barcelona, Sp. (1022)
EAJ19 7. Oviedo, Sp. (1022)
OBJ 7. Lima, Peru. Escuela
Militor de Chorrillos.
XHHG 1. Shanghai, Ch.
2KY 1. Sydney Ausl. The
Block, George St.
Mon., Tue., Thu.,
Fri. 815-1330; 1430-17;
1745-0030; Wed. 815-
1330; 14-0030; Sat.
815-1240; 14-18; 1845-
0030; Sun. 9-0030
..... 2. Cracow, Pol. (1022)

1030(291.1) []

CD103 1. Magallanes, Chile.
Ramon Verde San-
chez, Mexicana 936
CT1GL 5. Paredo, Por. (1031)
Radio Club Portu-
guese.
JBAK 15. Fuzan, Korea
LR9 5. Buenos Aires, Arg.
Radio Fenix, Santa
Fe 1174
PRCS 1. Rio de Janeiro, Brz.
Radio Soc. Guana-
bara, Rua 1st de Mayo
123
XGOL 1. Foochow, Chn.
YV11RMO 1034. Maracaibo, Venez.
3DB 6. Melbourne, Ausl.
36 Flinders St. Mon.
to Fri. 8-1; Sat. 8-130;
Sun. 1130-1330; 1530-
24
..... 100. Konigsberg, G. (1031)
Daily 00-18 EST

1040(288.3) []

CP4 10. La Paz, Bol.
Carlos Lopez Vedela,
Casilla 637
CW25 5. Durazno, Uru.
Artola Evangelist y
Cia. 10-13; 18-23
JOJG 5. Yamagata, Japan
RW70 10. Leningrad, USSR.
XHHH 1. Shanghai, Chn.
5P1 2. Crystal Brook, Ausl.
Relays SAD. Mon. to
Fri. 8-16; 19-1; Sat.
8-16; 17-1; Sun. 1930-
24
..... 40. Rennes-Bretagne, F.
Daily 3-1730 EST

1050(285.5) []

CX26 2. Montevideo, Uru.
Radio Uruguay,
Millan 2370. 9-1430;
16-23

I1BA 20. Bari, I. (1059) EIAR
Stazione di Bari
Weekdays 130-1730;
Sun. 335-1730 EST
JOHG 5. Kagoshima, Japan
PRF6 05. Bahia, Brazil. Radio
Club da Bahia
RW33 1. Krasnodar, USSR.
XHKA 2. Tien-tsin, Chn.
2CA 5. Canberra, Ausl. Mon.
to Fri. 14-15; 19-2330;
Sat. 1930-2330; Sun.
2130-2330
..... 50. Falkirk, G. B. Scot-
tish National. Week-
days 545-1815; Sun.
1130-1745 EST

1060(282.8) []

CB106 5. Santiago, Chi.
JOJG 5. Toyama, Japan
RWS7 4. Tiraspol, USSR. (1068)
XHHI 1. Shanghai, Chn.
2DU 1. Dubbo, Australia
3YB 05. Warrnambool, Ausl.
4MB 1. Maryborough, Ausl.
Wynne's Stn. Mon.
to Fri. 10-1130; 1330-
1530; 20-2330; Sat. 10-
1130; 1330-1530
..... 8. Paris, F. (1068)
Radio-Cite

1070(280.2) []

LR1 50. Buenos Aires, Arg.
Radio El Mundo,
Maipu 555
PYG2 10. Sao Paulo, Brz. Ra-
dio Tupy Sao Paulo
XGOQ 2. Kaifeng, Chn.
XKRI 1. Canton, Chn. (1071)
6KA 2. Katanning, Ausl.
Western Ausl.
Brdcters., Ltd.
..... 30. Bordeaux, F. (1077)
Boredeaux, F. Lafayette
Hotel des PTF, 220
Chemin do Tondou
Daily 300-1730 EST

1080(277.6) []

JOBK2 10. Osaka, J. (1085)
JOOG 5. Obihiro, Japan (CP)
LT3 4.5. Rosario, Arg. Radio
Soc. Rural de Cereali-
stas, Pte. Roca 770
OAX4F 05. Lima, Peru
F. W. Castellano &
Hno. Opens and
closes "Anchors a
weigh" Daily except
Sun., 15-17 EST
SCC 2. Falun, Swe. (1086)
XHHJ 2. Shanghai, Chn.
ZP7 7. Asuncion, Par. (1083)
2AD 1. Armidale, Ausl.
3SH 1. Swan Hill, Ausl.
Mon. to Sat. 14-15;
2030-24; Sun. 1345-
1545; 1745-1930; 2045-
2330
..... 7. Zagreb, Yu. (1086)

FOREIGN B. C. STATIONS BY FREQUENCIES

1090(275.1)

- CC109 .1 Rancagua, Chile. Jorge Romero, Independencia 483
- CX28 3. Montevideo, Uru.
- EAJ7 10. Madrid, Sp. (1095) Union Radio Station EAJ7, Aptdo 745. Daily 3-19 EST
- PRC2 3. Porto Alegre, Brz. Radio Soc. Gaucha, Galerle Chaves
- PRC7 .25 Belo Horizonte, Brz. Soc. Radio Mineira
- RW75 10. Vinnitza, USR. (1095)
- XL10 .02 Shaohing, China
- 1ZB .09 Auckland, N. Z.

1100(272.6)

- HJ3ABD .05 Bogota, Col. Alford's Radio, Calle 16, No. 5-40
- 11NA 1.5 Naples, I. (1104)
- XHHS .1 Shanghai, Chn.
- 4LG .3 Longreach, Ausl.
- 7LA .4 Lancaster, Ausl. 67 Brisbane St. Mon. to Fri. 9-1030; 1330-1530; 19-24; Sat. 9-1030; 16-1830; 19-24; Sun. 1915-2330
- 50. Madona, Lat. (1104) Weekdays 00-1630; Sun. 200-1700 EST

1110(270.1)

- CB111 1. Vina del Mar, Chile. Los Castanos, Av. Castanos 393
- CD111 .1 Magallanes, Chile. Radio Austral, Independencia s/n 20-23
- LS5 5. Buenos Aires, Arg. Radio Rivadavia, Callao 1526
- OKK 11.2 Moravska, Cz. (1113) Daily 0030-1730 EST
- XLIG .015 Kaoyu, China
- ZUW .75 Sydney, Ausl., J. M. Prentice, Box 241D, GPO. "A: the Cross Roads of Sydney." 24 hours da.v.
- 10. Normandie, (1113) Fecamp Daily 2-21 EST

1120(267.7)

- CD112 .1 Osorno, Chile. David Arriagada, Baquedano 715
- CW29 .5 Mercedes, Uru. Bautista Abbo. 1130-13; 1830-2230
- HAE 6.2 Nyiregyhaza, Hung. (1122)
- LV5 .5 San Juan, Arg. Radio Los Andes, G. Acha 362
- OAX41 .. Lima, Peru. Radio Internacional
- PRM3 10. Sao Paulo, Brz. Radio Piratininga

- XLHM .05 Shanghai, Chn.
- XLHN .2 Shanghai, Chn.
- 4BC 1. Brisbane, Ausl., R. F. Roberts, 43 Adelaide St., Mon. to Fri. 8-0030; Sat. 8-11; 1330-0030; Sun. 830-1330; 1630-24
-5 Alexandria, Eg. (1122)
- 1. Newcastle, G.B. (1122)

1130(265.3)

- CB113 .1 Quillota, Chile
- CX30 .5 Montevideo, Uru. Radio Nacional, Porvenir 2384, 9-24.
- PRD8 1. Nitheroy, Brz. (1132) Radio Club Fluminense
- SBH 10. Herby, Swe. (1131) Weekdays 145-1700; Sun. 3-17 EST
- XGOC .25 Nan-chang, Chn.
- ZP1 1. Asuncion, Par. (1135)
- 6ML .5 Perth, Ausl. Lyric House, Murray St. Mon. to Fri. 1030-1230; 1430-16; 21-2; Sat. 1030-1230; 1430-16; 2130-2; Sun. 2230-130

1140(263)

- CB114 5. Santiago, Chile
- 11T0 7. Turin, I. Weekdays 130-1730; Sun. 310-1730 EST
- 11TR 10. Trieste, I.
- XHHL .1 Shanghai, Chn.
- 2HD .5 Newcastle, Ausl. Box 123. Mon. to Fri. 730-1530; 1630-1730; 19-24; Sat. 730-1530; 1630-1730; 19-130; Sun. 1030-1330; 1630-1730; 1830-130
- 4YO .2 Dunedin, N. Z.
- 20. London National, G. B. (1149)
- 20. North National, G. B. (1149) Weekdays 545-1815; Sun. 1130-1745 EST
- 20. West National, G.B. (1149) Same as North National

1150(260.7)

- HC2ET .3 Guyaquil, Ec. (1153)
- HJ1ABM .05 Cartagena, Clb. (1154)
- LR8 7. Buenos Aires, Arg. Radio Paris, Cangallo 860
- OAX4H .. Lima, Peru. Radio Davila, Aptdo. 373
- XGOZ 1. Chinkiang, Chn.
- YVTRMO .5 Maracabio, Venz. (1153)
- 2WG 1. Wagga, Aus. 16 Fitzmaurice St. Mon. to Sat. 930-1030; 1330-1530; 1930-24; Sun. 2130-2330
- 2ZM .015 Gisborne, N. Z. Mon., Tue., Wed., Fri.,

- Sat. 915-1015; Thu. 915-1015; 20-2230; Sun. 19-22
- 2.6 Kosice, Poland (1158)

1160(258.5)

- CB116 1. Valparaiso, Chile. Radio Valparaiso, Prt 773
- CW31 .25 Salto, Uru. Salvador E Pera. 9-1230; 16-23
- LT5 .5 Resistencia, Arg. Radio Chaco, Av. 9 de Julio
- XHHU .1 Shanghai, Chn.
- 2KA .1 Katoomba, Ausl. 80 Market St.
- 4MK .1 Mackay, Ausl. 64 Nelson St., Mon. to Fri. 11-1230; 15-19; 20-0030; Sat. 11-19; 20-0030; Sun. 1130-14; 1630-1830; 20-23
- 15. Mte. Ceneri, Sw. (1167) Report to PTT Berne, Spighergrasse No. 6 Weekdays 6-17; Sun. 430-1630 EST

1170(256.3)

- CC117 .1 Concepcion, Chile. Zenith, Rolando Beckdorf, Av. Argentina 977
- CX32 .5 Montevideo, Uru. Radio Marconi, Gen. Hornos 537. 10-2
- JOCK2 10. Nagoya, J. (1175)
- PRB6 1. Sao Paulo, Radio Cruzeiro do Sul, Largo da Misericordia 4
- PRC9 .25 Campinas, Brz. (1175) Radio Educadora dl Campinas
- XLIF .1 Wusih, China
- 2N2 2. Narrabri, Ausl.
- 2ZD .005 Masterton, N. Z. W. D. Ansell, 7 Rimu St. Daily 20-22. Relays 2YA Tue., Fri., Sat., Sun.
- 4TO .2 Townsville, Aus. Mon., Tue., Thu., Fri. 9-1; 1330-1530; 1930-2345; Wed., Sat., 9-10; 15-19; 1930-2345; Sun. 2030-2330
- 10. Cophgen., Den. (1176) Strats Radio Fomien Heibergsgrade No. 7

1180(254.1)

- CB118 10. Santiago, Chile. Radio Bayer, Portal Fernandez Co. 960
- RW20 10. Kharkov, USR. (1185)
- XHHZ .15 Shanghai, Chn.
- 3KZ .6 Melbourne, Ausl., S. Morgan, 64 Elizabeth St., "The Brighton Brdcstg. Service." 24 Victoria St. Mon. to Fri. 8-1530; 16-18 1830-100; Sat. 8-1215;

FOREIGN B. C. STATIONS BY FREQUENCIES

1345-230; Sun. 16-18;
1930-24
..... 60. Nice-Corse, France
(1185)

1190(252)

LS2 30. Buenos Aires, Arg.
Radio Prieto, Bolivar
1356
OAX4H .. Lima, Peru. Radio
Zenith, Casa Davile
Peiping, Chn. (1154)
XLKA .83 Sydney, Ausl.
2CH 1. 77 York St., Mon. to
Fri. 830-15; 1630-0030;
Sat. 830-14; 1445-0030;
Sun. 12-14; 16-2330
..... 25. Frankfurt, G. (1195)
Eschersheimer Lands-
trabe No. 33
Daily 00-20 EST
..... 5. Freiburg, Ga. (1195)
..... 5. Kaiserslautern (1195)
..... 2. Trier, G. (1195)
..... 5. Cassel, G. (1195)
..... 2. Coblenz, G. (1195)

1200(249.9)

CB120 1. Valparaiso, Chile.
Chilena Consolidada,
Edwards 383
CW33 .075 Florida, Uruguay
HJ3ABE 1. Bogota, Cib., Uribe
y Moreno, P. O. Box
317.
LT9 .5 Santa Fe, Argentina.
Radio Roca Soler
OAX4B .25 Lima, Peru
PRD3 .25 Taubate, Brz. (1207)
Soc. Radio Banderi-
ante
XHHN 3. Shanghai, Chn.
YV3RC 1. Caracas, Vnz.
Bajos Pasaje Ramella
VUL .1 Lahore, India.
3YL .25 Christchurch, N. Z.
5KA .3 Adelaide, Ausl.
Richards Bldg., Mon.
to Fri. 830-1; Sat. 830-
2; Sun. 12-14; 17-18;
1845-100
No. 2 5. Praha, Cz. (1204)
..... Bangkok, Siam

1210(247.8)

CD121 .1 Osorno, Chile. Radio
Austral, E. Ramirez,
2930
CX34 .5 Montevideo, Uru.
Radio Artigas, Millan
2370. 10-16; 18-23
LV10 .5 Mendoza, Argentina.
Radio de Cuyo
OAAAR .025 Lima, Peru
OAAD .025 Lima, Peru
XGTM .1 Tengchow, Chn.
XHMK .1 Tsingtao, China
XLPH .015 Pinghu, Chn.
XLTC .015 Wushih, Chn.
2GF .1 Grafton, Ausl.
47 York St., Mon. 9-
10; 1330-1430; 1930-
2330; Tue. to Sat. 9-10;
1430-1530; 1930-2330
6KG .5 Kalgoorlie, Ausl.
86 Palace Chambers,
Mon. to Fri. 1430-1630

22-2; Sat. 1730-2030;
2230-2; Sun. 2315-0130
Lille, F. (1213) Radio
PTT Nord (testing)
Daily 3-1730 EST

1220(245.8)

PRE3 10. Rio de Janeiro, Brz.
Radio Transmissora
Brasileira
PRG3 .5 Sao Paulo, Brazil.
Radio Excelsior.
XQHG .25 Shanghai, China
4AK 2. Oakey, Ausl.
Daily 19-0030
4ZL .1 Dunedin, N. Z.
243 MacAndrew Rd.
Mon., Thu., Sat. 8-9;
1930-23; Tue., Wed.,
Fri. 8-9; Sun. 830-1030
Bologna, I. (1222)
..... 50. Narvik, Norway (1222)

1230(243.8)

HJABK 3. Medellin, Cib.
LS8 15. Buenos Aires, Arg.
Radio Stentor, Flo-
rida 8
XLIR .05 Hangchow, China
2NC 2. Newcastle, Ausl.
Relays 2FC and 2BL,
Mon. to Fri. 830-1530;
1630-1745; 19-100;
Sat. 830-1030; 1130-
1830; 19-100; Sun.
1130-1815; 1930-24
..... 5. Gleiwitz, G. (1231)

1240(241.8)

CB124 .25 Valparaiso, Chile. A.
Garcia y Cia., Av.
Brasil 212
CW35 .25 Paysandu, Uru.
Buemaventura y
Mahler. 9-13; 17-22
Bahia Blanca, Argen-
tina. Radio Ge. San
Martin, Calle Sar-
mento 60
LV-14 .5 La Rioja, Arg.
Radio Provincia de La
Rioja
XHHY 1. Shanghai, Chn.
2ZL .02 Hastings, N. Z.
John Holden. 609
Park Rd.
3TR .5 Sale, Ausl. A. Gil-
christ, Raymond St.,
"Gippsland's Radio
Station."
Mon. to Fri. 12-15;
19-24; Sat. 12-1430;
1930-24; Sun. 20-24
6CK 1. Cork, I. F. S.
6IX .5 Perth, Ausl.
St. George's Terrace,
Mon. to Fri. 1230-1430
2130-230; Sat. 1230-
1545; 2130-230. Sun.
17-1830; 2130-200
..... 2. Orebro, Swe.
..... 17. Saarbrucken, Germ.
(1249)
..... 4. Saffie, Swe.
..... 2. Varberg, Swe.

1250(239.9)

CB125 1. Santiago, Chile
CX36 .25 Montevideo, Uru.
Centenario Brdctg.
Ignacio Nunez 2133.
9-14; 17-24
EAJ8 1. St. Sebastian, Sp.
(1258)
HC2JB .83 Guayaquil, Ec.
MABS .035 Tingshien, Chn.
OAX4L .1 Lima, Peru. Radio
Miraflores, Calle
Manco Capac 347
PYG3 .25 Bauru, Brz.
XLIE .05 Wushih, China
No. 3 1. Rome, I. (1258)
..... 10. Kuldiga, Lat. (1258)

1260(238)

XHHP .1 Shanghai, Chn.
IZM .175 Manurewa, N. Z.
W. Rodgers, Massey
Rd. Reported on 1360
3WR .5 Shepparton, Ausl.
High St. Mon. to Fri.
12-1430; 1930-0030;
Sat. 12-1430; 2030-2330
Sun. 2130-2230
..... 2. Nurnberg, Ga (1267)

1270(236.1)

CA127 .1 Antofagasta, Chile
LKK .5 Khristiansand, Nor.
(1276)
LKS .5 Stavanger, Nor. (1276)
LS9 6. Buenos Aires, Arg.
Radio La Voz del
Aire, Pozos 439.
OA40 .1 Lima, Peru (1277)
PRES 7. Rio de Janeiro, Brz.
Soc. Radio Nacional
Rua Buenos Aires 120.
TUA .5 Tunis, Tun. (1275)
XLIH .015 Wu-hu, Chn.
ZP4 .15 Asuncion, Par. (1275)
2SM 1. Sydney, Ausl., 46 Car-
rington St. "Double
D Eucalyptus" Aus-
tralia House. Mon. to
Sat. 830-1030; 1430-
24; Sun. 1230-24
..... 2. Juan-les-Pins, F.
(1276) Radio Cote
d'Azur.

1280(234.2)

PRG3 10. Rio de Janeiro, Brz.
XHHQ .08 Shanghai, Chn.
3AW .6 Melbourne, Ausl.
218 Exhibition St.
Mon. to Sat. 8-1130;
1230-1; Sun. 1145-14
18-24
4ZC .007 Cromwell, N. Z.
John I. Bilton, Low-
burn Ferry. Daily
19-21.
..... 1. Abergden, G. B. (1285)

FOREIGN B. C. STATIONS BY FREQUENCIES

..... .25 Dresden, G. (1285)
1 Tientsin, Chn.

1290(232.4) []

CX38 .5 Montevideo, Uru.
 PRAS 5. Sao Paulo, Brz. (1295)
 Radio Club de Sao Paulo, Rua 7 de Abril
 XGOB .5 Tsinan, China
 4BK .5 Brisbane, Ausl. Mon. to Fri. 830-0030; Sat. 830-0130; Sun. 13-1530 1830-24.
 5. Dornbirn, Aust. (1294)
 4.2 Klagenfurt, Aust. (1294)
 6. Vorarlberg, Aus. (1294)

1300(230.6) []

CB130 1. Santiago, Chile. Mavis, Av. J.D. Canas 565 La Paz, Bol.
 CPX .5 Santa Fe, Arg. Radio del Inst. Soc. de la Univ. Nac. del Litoral
 LU6 .5 Mar del Plata, Arg. Radio Atlantica.
 OAX4C .. Lima, Peru, Estacion Radiodifusora DUSA, Calle de Plumeros.
 PRC4 .05 Ampara, Brz. (1304)
 XQHC .5 Shanghai, Chn.
 YV5RMO .15 Maracaibo, Vnz.
 2TM 1. Tamworth, Ausl. Peel St. Mon. to Sat. 830-1030; 1330-1530; 17-18; 19-2330; Sun. 1330-1530; 1630-1830; 2030-2330.
 5. Dama, Dan. (1303)

1310(228.9) []

LS7 10. Buenos Aires, Arg.
 PRE9 .5 Fortaleza, Brz. (1315)
 Ceara Radio Club
 SBC 2.5 Malmo, Swe. (1312)
 SCK .25 Karlstad, Swe. (1312)
 SCO .25 Norrköping, Swe. (1312)
 SCQ .25 Trollhattan, Swe. (1312)
 XLIP .05 Suchow, China
 SAD .3 Adelaide, Ausl. Weymouth St. Daily 9-100

1320(227.1) []

CB132 1. Valparaiso, Chile. David Wallace, Esmeralda 1111
 CD132 .1 Valdivia, Chile. Carlos Kahler, Isla Teja Paysandu, Uru. Miguel Penna. 1030-1230; 1730-2245
 HAE2 1.25 Magyarovar, Hun. (1321)
 HJ3ABK .05 Bogota, Col.
 XLIA .015 Ningpo, Chn.
 3BA .5 Ballarat, Ausl. Armstrong and Dana Sts. Mon. to Fri. 9-1145; 1330-1530; 2030-24; Sat. 9-1145; 2030-

0030; Sun. 1430-1630; 20-2330

1330(225.4) []

CX40 .5 Montevideo, Uru. Radio Fenix, Chayos 4534; 8-24
 HJ1ABA .1 Barranquilla, Cib., E. J. Pellet B. P. O. Box 751
 PRE2 .5 R' de Janeiro, Brz. Soc. Radio Cajuti, Rua Conde de Bomfim 457
 XGSA .001 Kiangyin, Chn. (1335)
 XLIK .075 Changchow, Chn.
 2BH .1 Broken Hill, Ausl., 10 O'Connell St., Mon. to Sat. 9-11; 20-0030; Sun. 1230-15; 20-24
 4RO .05 Rockhampton, Ausl. Mon., Tue., Thu., Fri., Sat. 1930-2330; Wed. 1930-2345; Sun. 2030-2330
 6MD .5 Merredin, Ausl.
 1.2 Montpelier, F. (1339)
 2. Bremen, G.
 2. Hanover, G.
 2. Madgeburg, G.
 2. Stettin, G.
 2. Flensburg, G.
 1.7 Lodz, Pol. (1339)

1340(223.7) []

CB134 1. Santiago, Chile. Radio Allviol, Gumer-sindo 885
 CW19 .05 Rocha, Uruguay. Juan J. Arispuru y Abel Machado
 CW19A .06 Rivera, Uruguay
 LKR .15 Rjukan, Nor. (1348)
 LT7 .5 Corrientes, Arg. Radio Proviencia Corrientes
 OFE .7 Tampere, Finland. (1348)
 PRG7 .25 Jahu, Brazil
 XGED .015 Suchow, Chn.
 XHHR .05 Shanghai, Chn.
 2RN 1. Dublin, I.F.S. (1348)
 2XN .05 Lismore, Aus. P. O. Box 138B. Mon. to Fri. 830-930; 1530-1630; 1930-2330; Sat. 830-930; 1930-2330
 4ZR .004 Balclutha, N. Z. Renton & Clark, Clyde St. Tue. 1930-20; Thu. 19-20; Sun. 10-12; 1930-2130
 SMU .1 Murray Bridge, Ausl. No. 2 4. Milan, I. (1348)
 2. Ile de F., F. (1348)
 5. Salzburg, Aust. (1348)
 2. Konigsbrg, G. (1348)
 5. Cairo, Eg. (1348)

1350(222.4) []

LKN .15 Notodden, Nor. (1357)
 L56 6. Buenos Aires, Arg. Radio del Pueblo, Estados Unidos 1816
 OA6E .03 Arquipa, Peru
 XGOE 1. Nanning, China
 XQKA .15 Tientsin, China

3GL .1 Geelong, Ausl. National Mutual Bldg., Mon. 830-1045; 1430-1530; 19-24; Tue., Wed., Thu., 9-1045; 1430-1530; 19-24; Fri. 845-1045; 1430-1530; 19-24; Sat. 9-1045; 1930-0030; Sun. 2030-2335.

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

1360(220.4) []

CD136 .1 Magallanes, Chile. Santiago Aguilera, Valviva 250
 CW41 .05 San Jose, Uru. Radio San Jose 10-14; 18-23.
 OA4K .15 Lima, Peru
 PRC5 .1 Belem, Brz. (1364)
 PRD4 .25 Radio Club de Para Araraquara, Brs. (1364) Radio Cultura Araraquara, Ave. Faraou 25
 PRF9 .5 Rio Grande do Sul, Brz. Empresa Radiodifusora Porto Alegre
 XQHD .2 Shanghai, Chn.
 2MO .05 Gunnedah, Ausl. P. O. Box 78. Mon. to Sat. 830-1030; 1330-1530; 1930-2330; Sun. 930-1130; 1530-1730; 1930-2330
 4PM .1 Port Moresby, Ausl. No. 2 .1 Turin, I. (1366)

1370(218.8) []

CC137 .1 Temuco, Chile
 CX42 1. Montevideo, Uru. Colonial Brdctg. Ave. Italia 3646. 11-24
 XLID .05 Hangchow, China
 3HS .05 Horsham, Ausl. 84 Wilson St. Mon., Thu. 1330-15; 20-24; Tue., Wed., Fri. 1330-15; 1930-24; Sat. 1330-15; 20-0030; Sun. 1330-15; 2030-2330
 5. Basle, Swi. (1375)
 5. Berne, Swi. (1375)

1380(217.3) []

CB138 5. Santiago, Chile. El Murcurio, Cia. Esq. Morande
 XLHE .05 Shanghai, Chn.
 XLHF .05 Shanghai, Chn.
 4BH .1 Brisbane, Ausl. Parbury House, Eagle St. Mon. to Fri. 830-1030; 1230-1430; 19-0030; Sat. 830-1030; 19-0030; Sun. 1330-1630; 20-24
 No. 2 2. Warsaw, Pol. (1384)

1390(215.7) []

CB139 .1 Valparaiso, Chile.

FOREIGN B. C. STATIONS BY FREQUENCIES

LR11 .5 La Plata, Arg. Radio Univ. Nac. de La Plata
 XLIN .05 Wushih, Chn.
 2GN .2 Goulburn, Ausl. Auburn St. Mon. to Fri. 1345-1515; 1930-24; Sat. 1330-1430; 1930-24; Sun. 2030-2330
 4CA .1 Cairns, Australia
 25. Radio-Lyons, F. (1393)

1400(214.2) []

CB140 .1 San Antonio, Chile. Vina Santa Rita, Pob. Coop. Victoria, Casa 212
 CW37 .025 Colonia, Uruguay. Bernotti Montellanos
 CW43 .1 Lavalleya, Uruguay
 FFZ .25 Shanghai, Chn.
 OASD .15 Arequipa, Peru
 PRD5 1. R' de Janeiro, Brz. Dpto. de Educacio da Pref. Largo da Carloca 5
 LXHO .1 Shanghai, Chn.
 2ZO .1 Palmerston, N. Z. J. V. Kyle, 50 Waldegrave St. Tue. 1830-22; Thu. 1830-21; Sun. 10-1230
 5. Ornskoldsvik, Swe. (1402)
 1. Umea, Swe. (1402)

1410(212.6) []

CC141 .1 Concepcion, Chi. Radio Phillips, Cau-polican 370.
 CX44 .2 Montevideo, Uru. SADREP, Solis Grande 912. 8-2 Franca, Brz. (1415)
 PRB5 .05 Radio Club Hertz Uberaba, Brz.
 PRES .25 Radio Soc. Triangulo Minero
 XHIA .06 Chuchow, China
 2KO .5 Newcastle, Ausl. 57 Hunter St. Mon. to Fri. 830-1730; 1830-24; Sat. 1130-0030; Sun. 1030-1130; 1930-2330
 05. Uddevalla, Swe. Portuguese Common Wave (1411)

1420(211.1) []

1Z5 .05 Auckland, N. Z.
 3XY .6 Melbourne, Ausl. Princess Theatre. Mon. to Sat. 8-1530; 1615-01; Sun. 1130-14; 16-24
 3. Beziers, F. (1429) Radio-Midi
 5. Alexandria, Eq. (1429)
 6. Turku, Fin. (1429)
 10. Vaasa, Finland, O. Y. Suomen Yloisradio A. B.

1430(209.7) []

CC143 .1 Talca, Chile. Radio Atlantida, Enrique Garcia, Molino Sandoval
 HAE3 1.25 Miskolc, Hung. (1438)
 PRD7 .25 Sorocaba, Brz. Radio Club Sorocaba
 RW10 100. Minsk, USR. (1438)
 2WL .3 Wollongong, Ausl.
 4GY .05 Gympie, Ausl.

1440(208.2) []

CB144A .1 Santiago, Chile. Nacimiento, J. Infanta 2290
 CB144B .1 Santiago, Chile. Los Cuatro Ases, Roman Diaz 2000
 CB144C .15 Santiago, Chile. Luis Desmaras Los Leones, Calella 2860
 CB144D .1 Santiago, Chile
 LS11 .7 La Plata, Arg. Radio Proa. de Bs. Aires.
 OAGU .05 Arequipa, Peru (1443)
 PRG4 .25 Jabotical, Brz. Radio Club Jabotical (1442)
 XLHQ .03 Shanghai, Chn.
 2QN .05 Deniliquin, Ausl.
 4IP .05 Ipswich, Ausl.
 Spanish Common Wave (1447).

1450(206.8) []

CC145 .1 Rancagua, Chile
 CX46 1.5 Montevideo, Uru. Radio America, Camino Corrales 2808. 10-24
 XGOM .015 Peiping, China
 XLIB .015 Suchow, Chn.
 XOMO .015 Peiping, Chn.
 2B5 .1 Bathurst, Ausl.
 4AY .3 Ayr., Ausl. Reported on 860 kcs.
 5. Paris, F. (1456) Eiffel Tower.

1460(205.4) []

CB146 .1 San Felipe, Chile. Distrito Municipalidad, Baquedano 715
 HAE4 1.25 Pecs, Hun. (1465)
 ON4EB .1 Antwerp, Belg. (1465)
 XQHE .25 Shanghai, Chn.
 ZP5 .15 Asuncion, Par. (1465)
 TUV .3 Ulverstone, Ausl.
 1. Courtral, Belg. (1465)
 Bega, Ausl.

1470(204) []

LT11 .5 Parana, Argentina
 XGDZ .001 Changchow, Chn.
 2BE .1 Beza, Ausl.
 2RG .05 Griffith, Australia

3ZM .06 Christchurch, N. Z. Green & Younger, 253 Brougham St. Mon. to Thu. 730-10; 17-18; 19-22; Fri. 730-10; Sat. 730-10; 20-24; Sun. 11-14; 17-18; 19-22
 3. Plymouth, G. B. (1474)
 1. Bournemouth, G. B. (1474)

1480(202.6) []

CW47 .1 Canelones, Uru. Rafael J. Espiga, 11-14; 16-23
 XQHF .2 Shanghai, Chn.
 2AY .1 Albany, Ausl. John Dower, 47 York St., (Sydney). Mon. to Fri. 1345-1515; 19-24; Sat. 14-1515; 19-0030
 4BU .1 Bundaberg, Ausl.

1490(201.2) []

CX48 1.5 Montevideo, Uruguay
 ON4CE .1 Chatellineau, Belg. (1492)
 XLKS .02 Kashing, Chn.
 No. 1 .1 Wallonia, Belg. (1492)
 3MB .1 Birchip, Australia
 1. Binche, Belg. (1492)
 2. Nimes, F. (1492)
 1. Courtral, Belg.
 Spanish Common Wave (1492)
 See EAJ in Index by Calls

1500(199.9) []

CB150 10. Santiago, Chile. Markoff Hnos.
 HJSABE .. Cali, Colombia
 Jose Calderon N. Cia. Radiodifusora Colombiana, S. A. Aptd. 50
 PRGG .25 Cruzeiro, Brz. Soc. Radio Manti-queira
 VUP 2. Peshawar, India
 XHHT .1 Shanghai, Chn.
 XOCL .0075 Tsinan, Chn.
 3AK .2 Melbourne, Ausl.
 2. Hobart, Ausl.
 25. Pietasaari, Fin.
 2. Radio Alcalá, Sp.
 Belgium has several 100 watt stations on 1500.

1510(198.6) []

YDA .5 Tandjongpriok, Java

1530(196.0) []

SCJ .2 Kariskrona, Swe.

FOREIGN B. C. STATIONS BY LOCATIONS

Paysandu CW35 1240 250 CW39 1320 100	CZECHOSLOVAKIA Bratislava OKR 1004 13500 Brno OKB 922 32000 Kosice 1158 2500 Moravska OKK 1113 11200 Praha OKP 633 120000 No. 2 1204 5000	Radio-Normandie 1113 10000 Rennes 1040 40000 Strasbourg SPTT 859 35000 Toulouse 776 2000 913 60000	Manchester NN 1149 20000 NR 668 70000 Newcastle 1122 1000 Plymouth 1474 300
VENEZUELA Caracas YV1RC 960 5000 YV3RC 1200 3000 YV4RC 750 100 Maracalbo YV5RMO 1300 150 YV7RMO 1153 500 YV11RMO 1034 Valencia YV6RV 670 350	DANZIG Danzig 1303 500	GERMANY Berlin 841 100000 Bremen 1330 2000 Breslau 950 100000 Cassel 1195 2000 Coblenz 1195 2000 Cologne 658 100000 Dresden 1285 250 Flensburg 1330 2000 Frankfurt 1195 25000 Freiburg 1195 5000 Gleiwitz 1231 5000 Hamburg 904 100000 Hanover 1330 2000 Kaiserslautern 1195 1500 Konigsberg 1031 10000 1348 2000 Leipzig 785 120000 Magdeburg 1330 2000 Munich 740 100000 Nurnberg 1267 2000 Saarbrucken 1249 17000 Stettin 1330 2000 Stuttgart 574 100000 Trier 1195 2000	HUNGARY Budapest HAL 546 120000 Magyarovar HAE-2 1321 1250 Miskolc HAE-3 1438 1250 Nyiregyhaza HAE 1122 6200 Pecs HAE-4 1465 1250
EUROPE	DENMARK Copenhagen 1176 10000	IRISH FREE STATE Athlone 565 60000 Cork 6CK 1240 1000 Dublin 2RN 1348 1000	ITALY Bari IIBA 1059 20000 Bologna 1222 50000 Bolzano IIBZ 536 10000 Firenze IIFI 610 20000 Genoa IIGE 986 10000 Milan IIMI 814 50000 No. 2 1348 4000 Naples IINA 1104 1500 Palermo IIPA 565 4000 Rome IIRO 713 50000 No. 3 1258 1000 Trieste IITR 1140 10000 Turin IITO 1140 7000 No. 2 1357 200
AUSTRIA Dornbirn 1294 500 Graz 886 7000 Innsbruck 519 1000 Klanqenfurt 1294 4200 Linz 886 15000 Salzburg 1348 500 Vienna 592 120000 Vorarlberg 1294 6000	ESTONIA Tallinn 731 20000 Tartu 517 500	NETHERLANDS Hilversum PFBI 995 60000	
BEELGIUM Antwerp ON4EB 1465 100 Binche 1492 100 Brussels No. 1 620 15000 No. 2 932 15000 Chatellineau ON4CE 1492 100 Courtral 1465 100 Liege ON4RW 1500 100 Radio Comte 1500 100 Seraing 1500 100 Verviers No. 1 1500 100 No. 2 1500 100 Walfonia No. 1 1492 100 No. 2 1500 100	FINLAND Helsinki OFA 895 10000 Pietarsaari 1500 250 Pori OFD 749 1000 Sortavala 749 200 Tampere OFE 1420 700 Turku 1429 500 Viipuri OFH 527 10000	GREAT BRITAIN Aberdees 1285 1000 Belfast 977 100000 Bournemouth 1474 1000 Cardiff WR 804 70000 WN 1149 20000 Daventry MR 1013 70000 Falkirk SN 1050 50000 SR 767 70000 London LN 1149 20000 LR 877 70000	
BULGARIA Sofia 850 1000	FRANCE Beziors 1429 300 Bordeaux 1077 30000 968 2500 Grenoble 583 15000 Juan-les-Pins 1276 2000 Lille 1213 60000 Limoges 895 500 Lyons YN 648 90000 RL 1393 25000 Marseilles 749 120000 Montpellier 1339 1200 Nice 1185 60000 Nimes 1492 200 Paris FPTT 695 120000 ILLE 1348 800 PP 959 60000 Eiffel 1456 20000 1068 800	LATVIA Kuldiga 1258 10000 Madona 1104 50000 Riga YLZ 583 15000	
		LITHUANIA Klaipeda 560 10000	

FOREIGN B. C. STATIONS BY LOCATIONS

NORWAY		Spain has many stations of 100 watts or less on 1492 and 1500 kcs. For complete list see Index by Calls.					YUGOSLAVIA		
Aalesund			SWEDEN		Igarka	871	2000	Belgrade	
LKA	850 350		SCC	1086 2000	Ijevsk	767	3000	686 2500
Bergen			Goteborg		Iochar-Ola			Ljubijana	
LKB	850 1000		SBB	941 10000	RW61	888	1000	527 5000
Bodo			Horby		Ivanovo			Zagreb	
LKD	686 500		SBH	1131 10000	RW31	625 10000		1086 700
Fredrikstad			Karlskrona		Karaganda			ASIA	
LKF	776 1000		SCJ	1530 200	RW46	686.5 1200		CEYLON	
Hamar			Karlstad		Kazan			Colombo	
LKH	519 700		SCK	1312 250	RW17	686 10000		VPB	705 1750
Kristianssand			Malmo		Kharkov			CHINA	
LKK	1276 500		SBC	1312 2500	RW20	1185 10000		Amoy	
Narvik		Norrkoping		RW9	722 36000		XLIM	910 50	
.....	1222 300	SCO	1312 250	Krasnodar			Canton		
Notodden		Orebro		RW33	1050 1000		XGOK	750 1000	
LKN	1357 150	Stockholm		Leningrad			XKRI	1071 100	
Porsgrund		SBA	704 55000	RW70	1040 10000		Chang-Chow		
LKP	850 1000	Sundsvall		Magnitogorsk			XGDZ	1470 10	
Rjukan		SBD	601 10000	.....	571 10000		XLIK	1330 75
LKR	1348 150	Trollhattan		Makhatch			Chang-sha		
Stavanger		SCQ	1312 250	RW27	689 4000		XGOH	590 150	
LKS	1276 500	Uddevala		Minsk			XGTM	840 15	
Trondelag		.....	1410 50	RW10	1438 100000		Chengtu	
LKT	629 20000	Umea		Moscow			XGOG	560 10000	
POLAND		.....	1402 500	RW39	832 100000		Chinkiang	
Cracow		Varberg		Mourmansk			XGOZ	1150 1000	
.....	1022 2000	.....	1240 400	RW79	610 10000		Chuching	
Katowice		Basle		Naitchik			XGCK	990 7.5	
.....	758 12000	.....	1375 500	RW51	794 1000		Chunking	
Lodz		Berne		Odessa			XGOS	711 1000	
.....	1339 1700	.....	1375 500	Ordjonikidze			Foo-chow	
Lwow		Beremunster		RW64	740 10000		XGOL	1030 1000	
.....	795 16000	.....	556 100000	Oufa			Hangchow	
Poznan		Monte Ceneri		RW22	617 10000		XGOD	990 2000	
.....	868 16000	.....	1167 15000	Oust-Abakansk			XLID	1370 50
Torun		Sottens		RW50	617 2500		XLIQ	850 50	
.....	986 24000	.....	677 100000	RW84	635 1200		XLIR	1230 50
Warsab		SWITZERLAND		Penza			Hangkow		
No. 2	1384 2000	Basle		RW56	640 1200		XGOW	1010 5000	
Wilno		.....	1375 500	Petropavlovsk			XHJA	570 100
.....	536 16000	Berne		RW71	689 1200		Hongkong		
PORTUGAL		.....	1375 500	Petrozavodsk			ZBW	845 2000
Lisbon		Beremunster		RW29	648 10000		Kaifeng		
CTIAA	629 20000	.....	556 100000	Pratigorsk			XGOQ	1070 200
Paredo		Monte Ceneri		RW18	610 1000		Kiangyin		
CTIGL	1031 5000	.....	1167 15000	Samara			XGSA	1335 10
ROUMANIA		Sottens		RW16	710 10000		Kaoyu		
Bucharest		.....	677 100000	Saransk			XLIG	1110 15
.....	823 12000	U. S. S. R.		RW65	734 1000		Kashing		
SPAIN		Alexandrovsck		Simferopol			XGAK	895 15	
Aicala		RW38	662 2000	RW73	859 10000		XGML	714.3 7.5	
.....	1500 200	Archangel		Stalingrad			XLKS	1490 20	
Barcelona		RW36	586 10000	RW34	522 10000		Kunming		
EAJ1	795 7500	Astrakhan		Stalino			XGOY	690 250	
EAJ15	1022 3000	RW35	598 10000	RW26	776 10000		Nan-chang		
Madrid		.....	598 10000	Syktvykar			XGOC	1130 500
EAJ2	731 3000	Dnepropetrovsk		RW41	563 1200		Nanking		
EAJ7	1095 10000	RW30	913 10000	Tcheboksary			XGOA	660 75000	
Oviedo		Elista		RW74	680 1200		Nanning		
EAJ19	1022 700	RW48	704 2500	Tchellabinsk			XGOE	1350 1000	
San Sebastian		Engels		RW68	577 1500		Ningpo		
EAJ8	1258 1000	RW55	932 1000	Tchernigov			XHD	770 75	
Seville		Frounze		RW86	1013 5000		XLIA	1320 15	
EAJ5	731 5500	RW82	608 2500	Tchita			Peiping		
Valencia		Gomel		RW52	556 2000		XGOM	1450 15	
EAJ3	850 3000	RW40	959 1000	Tiraspol			XGOP	950 300	
		RW54	959 1000	RW57	1068 4000		XLKA	1194 30	
		Gorki		Vinnitza			Pinghu		
		RW42	565 10000	RW75	1095 10000		XLPH	1210 15	
		Groznyl		Urdjonikidze			Poatung		
		RW23	676 1000	RW64	752 10000		XGMK	1005 15	
		.....		Vladivostok				
		.....		RW28	635 800			
		.....		RW32	635 10000			

FOREIGN B. C. STATIONS BY LOCATIONS

Shanghai				Tsunshi		Matsuyo		AFRICA	
FPZ	1400	250	XGSS	610	15	JOTK	625	500	ALGERIA
XHHB	740	50	T'ung Hsien			Miyazaki			
XHHH	860	50	LUHO	750	20	JONG	600	500	
XHHE	940	1000	Wuchow			Nagano			
XHHF	960	100	XHGS	730	50	JONK	940	500	Algiers
XHHG	1020	100	Wu-hu			Nagasaki			..... 941 12000
XHHH	1040	100	XLIE	1250	50	JOAG	930	500	EGYPT
XHHI	1060	100	XLIH	1270	15	Nagoya			Alexandria
XHHJ	1080	200	XGWH	830	30	JOCK-1	810	10000	..... 1122 500
XHHK	620	100	Wusih			JOCK-2	1175	10000	..... 1429 500
XHHL	1140	100	XHIB	970	75	Nliqat			Cairo
XHHN	1200	100	XLIF	1170	100	JOQK*	920	500	..... 620 20000
XHHP	1260	100	XLIJ	790	50	Obihiro			..... 1348 500
XHHQ	1280	80	XLIN	1390	50	JOOG	1080	500	KENYA
XHHR	1340	50	XLTC	1210	15	Okayama			Nairobi
XHHS	1100	100	XLWU	1250	50	JOKK	700	500	VQ7LO 858 600
XHHT	1500	100	FORMOSA			Osaka			
XHHU	1160	100	Taichu	580	1000	JOBK-1	750	10000	
XHHV	880	100	Taihoku			JOBK-2	1085	10000	
XHHX	920	1000	JFAK	670	10000	Sapporo			
XHHY	1240	100	Tainan			JOIK	830	10000	
XHHZ	1180	150	JFBK	720	1000	Sendai			
XLHA	780	50	INDIA			JOHK	770	10000	
XLHB	560	45	Bombay			Shizuoka			
XLHC	720	50	VUB	855	3000	JOPK	780	500	
XLHD	720	50	Calcutta			Tokushima			
XLHE	1380	50	VUC	810	3000	JOXK	980	500	
XLHF	1380	50	Delhi			Tokyo			
XLHG	640	100	VUG	933	1000	JOAK-1	590	150000	
XLHI	760	7.5	Lahore			JOAK-2	590	10000	
XLHJ	760	100	VUL	1200	100	Tottori			
XLHK	800	7.5	Madras			JOLG	890	500	
XLHL	800	100	VUM	770	200	Toyama			
XLHM	1120	50	INDO-CHINA			JOIG	1060	500	
XLHN	1120	200	Salgon			Yamaqata			
XLHO	1440	30	F3ICD	840	12000	JOJG	1040	500	
XLHA	600	1000	JAPAN			JAVA			
XLHB	980	500	Akita			Tandjongpriok			
XLHC	700	500	JOUK	645	300	YDAS	1510	500	
XLHD	840	1000	Asahigawa			KOREA			
XLHE	800	500	JOCC	655	300	Fuzan			
XLHF	740	500	Fukul			JBAC	1030	150	
XLHG	1300	1000	JOFG	990	300	Seoul			
XLHD	1360	200	Fukuoka			JODK-1	900	10000	
XQHE	1460	250	JOLK	680	500	JODK-2	610	10000	
XQHF	1480	200	Hakodate			MANCHUOKUO			
XQHG	1220	250	JOVK	680	500	Dairn			
Shaohing			Hamamatsu			JOAK	652	500	
XLIO	1090	20	JODG	635	500	Harbin			
Shuhing			Hiroshima			MTFY	675	3000	
.....	1090	.....	JOFK	850	10000	Hsinking			
Suchow			Kagoshima			MTCY	560	100000	
XHIC	870	75	JOHG	1050	500	Mukden			
XLIP	1310	50	Kanazawa			MTBY	890	1000	
XLIB	1450	15	JOJK	710	3000	PALESTINE			
Talyuan			Kochi			Jerusalem			
XGOT	1000	50	JORK	720	500	.....	668	20000	
Tengchow			Kofu			PHILIPPINES			
XGTM	1210	100	JOKG	800	500	Manila			
Tientsin			Kokura			KZEG	780	1000	
XHKA	1050	200	JOJK	710	3000	KZIB	900	1000	
XQKA	1350	150	JOJK	710	3000	KZRM	618.5	50000	
XQKB	750	150	Kyoto			SIAM			
XQKC	810	200	JOJK	960	300	Bangkok			
Tingshien			Maebashi			HSP-1	856	2500	
MABS	1250	35	JOJB	970	500	HS7PJ	750	15000	
Tsinan			AFRICA						
XGF	833	7.5	ALGERIA						
XGOB	1290	500	Algiers						
XGOF	850	500	..... 941 12000						
XOCL	1500	7.5	EGYPT						
Tsingtao			Alexandria						
XHKB	590	100	..... 1122 500						
XHKC	1210	100	..... 1429 500						
			Cairo						
			..... 620 20000						
			..... 1348 500						
			KENYA						
			Nairobi						
			VQ7LO 858 600						
			MOROCCO						
			Rabat						
			CNR 601 25000						
			SOUTH RHODESIA						
			Salisbury						
			..... 681.8 1500						
			TUNISIA						
			Tunis						
			TUA 1275 500						
			UNION S. AFRICA						
			Bloemfontaine						
			ZTB 790 500						
			Cape Town						
			ZTC 600 10000						
			Durban						
			ZTD 750 1500						
			Grahamstown						
			ZUG 560 10000						
			Johannesburg						
			ZTJ 645 10000						
			Maritzburg						
			..... 750 10000						
			Pretoria						
			ZTP 952 500						
			OCEANIA						
			AUSTRALIA						
			Adelaide						
			5AD 1310 300						
			5CL 730 2000						
			5DN 960 300						
			5KA 1200 300						
			Albury						
			2AY 1480 100						
			Applecross						
			6PR 880 500						
			Armidale						
			2AD 1080 100						
			Ayr						
			4AY 1450 300						
			Ballarat						
			3BA 1320 500						
			Bathurst						
			2BS 1450 100						
			Bega						
			2BE 1470 100						
			Bendigo						
			3BO 970 2000						

FOREIGN B. C. STATIONS BY LOCATIONS

Birchip		Ipswich		Perth		NEW ZEALAND	
3MB 1490 100		4IP 1440 50		6IX 1240 500		Auckland	
Brisbane		Kalgoorlie		6ML 1130 500		IYA 650 10000	
4BC 1120 1000		6GF 720 2000		6WF 690 3500		1YX 880 150	
4BH 1380 1000		6KG 1210 500		Port Moresby		1ZB 1090 90	
4BK 1290 500		Katanning		4PM 1360 100		1ZS 1420 50	
4CG 800 2500		6KA 1070 2000		Renmark		Balclutha	
Broken Hill		Katoomba		5RM 850 1000		4ZR 1340 4	
2BH 1330 100		2KB 1160 100		Rockhampton		Christchurch	
Bundaberg		Keiso		4RK 910 2000		3YA 720 10000	
4BU 1480 100		7NT 710 7000		4RO 1330 50		3YL 1200 250	
Burnie		Launceston		Sale		3ZM 1470 60	
7BU 660 50		7LA 1100 300		3TR 1240 500		Cromwell	
Cairns		Lismore		Shepparton		4ZC 1280 7	
4CA 1390 100		2XN 1340 50		3WR 1260 500		Dunedin	
Canberra		Loncford		Swan Hill		4YA 790 10000	
2CA 1050 500		3GI 830 7000		3SH 1080 100		4YO 1140 200	
Clevedon		Longreach		Sydney		4ZB 1010 20	
4QN 600 7000		4LG 1100 300		2BL 740 3000		4ZL 1220 100	
Corowa		Mackay		2CH 1190 1000		4ZM 1010 30	
2CO 670 7500		4MK 1160 100		2FC 610 3500		4ZO 1010 25	
Crystal Brook		Maryborough		2GB 870 1000		Gisbourne	
5CK 640 7500		4MB 1060 100		2KY 1020 1000		2ZJ 980 200	
5PI 1040 2000		Melbourne		2SM 1270 1000		2ZM 1150 15	
Cumnock		3AK 1500 200		2UE 950 1000		Greymouth	
2CR 550 10000		3AR 580 4500		2UW 1110 750		3ZR 940 175	
Denilquin		3AW 1280 600		Tamworth		Hastings	
2QN 1440 50		3DB 1030 600		2TM 1300 1000		2ZL 1240 20	
Dubbo		3KZ 1180 600		Toowoomba		Invercargill	
2DU 1060 100		3LO 770 3500		2GR 1000 500		4ZP 620 100	
Geelong		3UZ 930 600		Townsville		Manurewa	
3GL 1350 100		3XY 1420 600		4TO 1170 200		1ZM 1260 175	
Goulburn		Merredin		Ulverstone		Masterton	
2GN 1390 200		6MD 1330 500		UVV 1460 300		2ZD 1170 5	
Grafton		Mildura		Wagga		Napier	
2GF 1210 100		3MA 900 100		2WG 1150 1000		2ZH 820 65	
2NR 700 7000		Minding		Warrnambool		Nelson	
Griffith		6WA 560 10000		3YB 1060 50		2ZR 920 30	
2RG 1470 50		Murray Bridge		Warwick		New Plymouth	
Gunnedah		5MU 1340 100		4WK 900 50		2YB 760 100	
2MO 1360 50		Narrabri		Wollongong		Palmerston N.	
Gympie		2NZ 1170 2000		2WL 1430 300		2ZP 960 150	
4GY 1430 50		Newcastle		FIJI		2ZO 1400 100	
Hamilton		2HD 1140 500		Suva		Wairoa	
3HA 1010 300		2KO 1410 500		ZJV 920 400		2ZP 900 105	
Hobart		2NC 1230 2000		NEW CALEDONIA		Wellington	
7HO 860 120		Northam		Noumea		2YA 570 5000	
7ZL 590 1000		6AM 980 2000		FJP 600 500		2YC 840 250	
Horsham		Oakey					
3HS 1370 50		4AK 1220 2000					
Invernell		Orange					
2LV 820 100		2GZ 990 2000					

The new Yankee Network has officially been started, with offices at 21 Brookline Ave., Boston, Mass., and WNAC of Boston as the key station. Other stations in this chain are: WEAN, Providence; WICC Bridgeport; WMAS, Springfield; WFEA, Manchester; WNBH, New Bedford; WTIC, Hartford; WTAG, Worcester; WCSH, Portland; WLBZ, Bangor; WSAR, Fall River; WLLH, Lowell; and WATR, Waterbury.

* * *

A New York State regional network has been opened under the

name of the New York State Broadcasting System, with headquarters are 114 E. 58th St. in New York City. The six stations comprising this system are WINS in New York; WIBX, Utica; WSAY, Rochester; WABY, Albany; WMBO in Auburn and WBNY at Buffalo.

* * *

The FCC has authorized a new radio station for Eau Claire, Wisc., replacing WTAQ which recently was moved to Green Bay. It will be a 250 watt daytime station operating on 1050 kcs.

FOREIGN B. C. STATIONS BY CALLS

CA127	1270	CX20	930	HJ3ABE	1200	LR5	830	PRB3	857	RW54	580	XGOQ	1078
CB57	570	CX22	970	HJ3ABH	1005	LR6	870	PRB4	960	RW54	950	XGOS	711
CB62	620	CX24	1018	HJ4ABJ	1000	LR7	750	PRB5	1415	RW55	932	XGOT	1000
CB64	640	CX26	1050	HJ4ABK	1230	LR8	1150	PRB6	1170	RW56	640	XGOW	1010
CB68	680	CX28	1090	H54P1	856	LR9	1030	PRB7	800	RW57	1068	XGOY	690
CB73	730	CX30	1130	H57PJ	750	LR10	790	PRB8	1000	RW61	888	XGOZ	1150
CB76	760	CX32	1170	I1BA	1059	LR11	1390	PRB9	1017	RW64	740	XGSA	1335
CB78	780	CX34	1210	I1BZ	536	LS1	710	PRC2	1090	RW65	734	XGSS	610
CB82	820	CX36	1250	I1FI	610	LS2	1190	PRC3	920	RW68	577	XGTM	840
CB84	840	CX38	1290	I1GE	986	LS3	630	PRC4	1304	RW70	1040	XGTF	1210
CB89	890	CX40	1330	I1MI	814	LS4	670	PRC5	1364	RW71	689	XHGS	730
CB90	900	CX42	1370	I1NA	1104	LS5	1110	PRC6	980	RW73	859	XHHB	740
CB93	930	CX44	1410	I1PA	565	LS6	1350	PRC7	1090	RW74	680	XHHD	860
CB97	970	CX46	1450	I1RO	713	LS7	1310	PRC8	1030	RW75	1095	XHHE	940
CB101	1010	CX48	1490	I1TO	1140	LS8	1230	PRC9	1175	RW78	767	XHHF	960
CB196	1060	EAJ1	790	I1TR	1140	LS9	1270	PRD2	932	RW79	610	XHHG	1020
CB111	1110	EAJ2	735	JBAK	1030	LS10	590	PRD3	1207	RW82	608	XHHH	1040
CB113	1130	EAJ3	850	JFAK	670	LS11	1440	PRD4	1364	RW84	635	XHHI	1060
CB114	1140	EAJ4	1492	JFBK	720	LT1	780	PRD5	1400	RW85	871	XHHJ	1080
CB116	1160	EAJ5	731	JFCK	580	LT3	1080	PRD7	1430	RW86	1013	XHHK	620
CB118	1180	EAJ6	1492	JOAG	930	LT5	1160	PRD8	1132	SBA	704	XHHL	1140
CB120	1200	EAJ7	1095	JOAK-1	590	LT7	1340	PRD9	769	SBB	941	XHHN	1200
CB124	1240	EAJ8	1258	JOAK-2	590	LT8	840	PRE2	1330	SBC	1312	XHHP	1260
CB125	1250	EAJ9	1492	JOBG	970	LT9	1200	PRE3	1220	SBD	601	XHHQ	1280
CB130	1300	EAJ10	1492	JOBK-1	750	LT10	1300	PRE4	941	SBH	1331	XHHR	1340
CB132	1320	EAJ11	1500	JOBK-2	1085	LT11	1470	PRE5	1410	SCA	1402	XHHS	1100
CB134	1340	EAJ12	1492	JOCG	655	LUHO	750	PRE6	740	SCB	1402	XHHT	1500
CB138	1380	EAJ13	1492	JOCK-1	810	LU2	900	PRE7	788	SCC	1086	XHHU	1160
CB139	1390	EAJ14	1500	JOCK-2	1175	LU6	1300	PRE8	1270	SCD	1402	XHHV	880
CB140	1400	EAJ15	1022	JODG	635	LU7	1240	PRE9	1315	SCF	1402	XHHX	920
CB144A	1440	EAJ16	1492	JODK-1	900	LV1	730	PRF2	725	SCG	1402	XHHY	1240
CB144B	1440	EAJ17	1492	JODK-2	610	LV2	960	PRF3	900	SCG	1402	XHHZ	1180
CB144C	1440	EAJ19	1022	JOFG	990	LV3	620	PRF4	923	SCH	1402	XHIA	1410
CB144D	1440	EAJ20	1492	JOFK	850	LV5	1120	PRF6	1050	SCJ	1402	XHIB	970
CB146	1460	EAJ21	1492	JOGK	790	LV6	690	PRF7	1380	SCI	1530	XHIC	870
CB150	1500	EAJ23	1492	JOHG	1050	LV7	820	PRF8	950	SCK	1312	XHID	770
CC58	580	EAJ24	1492	JOHK	770	LV10	1210	PRF9	1360	SCL	1402	XHJA	570
CC64	640	EAJ25	1502	JOIG	1060	LV14	1240	PRG3	1280	SCM	1402	XHKA	1050
CC84	840	EAJ26	1502	JOHK	770	MAB5	1250	PRG4	1442	SCN	1402	XHKB	590
CC96	960	EAJ27	1492	JOIK	830	MTB5	890	PRG5	720	SCO	1312	XHKC	1210
CC109	1090	EAJ29	1500	JOJG	1040	MTCY	560	PRG6	1500	SCP	1402	XKRI	1071
CC117	1170	EAJ30	1500	JOJK	710	MTFY	675	PRG7	1340	SCR	1312	XLHA	780
CC137	1370	EAJ31	1492	JOKG	800	OAX4A	750	PRG9	1200	SCQ	1402	XLHB	560
CC141	1410	EAJ32	1500	JOKK	700	OAX4B	1200	PRH2	600	SCS	1402	XLHC	720
CC143	1430	EAJ33	1492	JOLG	890	OAX4C	1300	PRH3	1120	SCU	1402	XLHD	720
CC145	1450	EAJ34	1492	JOLK	680	OAX4E	980	PRH8	820	SCV	1240	XLHE	1380
CD103	1030	EAJ35	1500	JONG	600	OAX4F	1080	PYG2	1070	SCW	1402	XLHF	1380
CD111	1110	EAJ36	1500	JONK	940	OAX4H	1150	PYG8	1250	SCY	1402	XLHG	640
CD112	1120	EAJ37	1500	JOOG	1080	OAX4I	1120	RW9	722	SPTT	859	XLHI	760
CD121	1210	EAJ38	1500	JOOK	960	OAX4L	1250	RW10	1438	TUA	1275	XLHJ	760
CD132	1320	EAJ39	1492	JOPK	790	OAA4R	1210	RW13	960	VPB	705	XLHK	800
CD136	1360	EAJ40	1500	JOQK	920	OAKK	1360	RW16	710	VQ7LO	858	XLHL	800
CNR	601	EAJ41	1492	JORK	720	OA40	1277	RW17	686	VUB	855	XLHM	1120
CPX	1300	EAJ42	1492	JOSK	735	OAGD	1400	RW18	610	VUC	810	XLHN	1120
CP4	1040	EAJ43	1492	JOTK	625	OAGE	1350	RW20	1185	VUD	880	XLHO	1400
CT1AA	629	EAJ44	1492	JOUK	645	OAGU	1443	RW22	617	VUG	933	XLHQ	1440
CT1GL	1031	EAJ45	1500	JOVK	680	OFA	895	RW23	676	VUL	1200	XLIA	1320
CW19	1340	EAJ46	1492	JOXK	980	OFD	749	RW26	776	VUM	770	XLIB	1450
CW19A	1340	EAJ47	1492	JOAK	652	OFE	1340	RW27	689	VUP	1500	XLID	1370
CW23	820	EAJ48	1492	KEZG	780	OFH	527	RW28	635	XGCK	990	XLIE	1250
CW25	1040	EAJ49	1500	KZIB	900	OKB	922	RW28	725	XGDZ	1470	XLIF	1170
CW27	600	EAJ51	1492	KZRM	618.5	OKK	1113	RW29	648	XGED	1340	XLIG	1110
CW29	1120	EAJ52	1492	LKA	850	OKP	633	RW30	913	XGF	833	XLIH	1270
CW31	1160	EAJ53	1492	LKB	850	OKR	1004	RW31	625	XGKA	895	XLII	830
CW33	1200	EAJ55	1492	LKD	686	ONACE	1492	RW32	635	XGMK	1005	XLIJ	790
CW35	1240	FFZ	1400	LKF	776	ONACE	1500	RW33	1050	XGML	714.3	XLIK	1330
CW37	1400	FJP	600	LKH	519	ONAEB	1492	RW34	522	XGOA	660	XLIM	910
CW39	1320	F31CD	840	LKI	845	ONARW	1500	RW35	598	XGOC	1290	XLIN	1390
CW41	1360	HAE	1122	LKK	1276	PFB1	995	RW36	586	XGOB	1130	XLIO	1090
CW43	1400	HAE2	1321	LKN	1357	PP	959	RW38	662	XGOD	990	XLIP	830
CW47	1480	HAE3	1438	LKO	1181	PRA2	750	RW39	832	XGOE	1350	XLIQ	850
CX4	610	HAE4	1465	LKP	850	PRA3	860	RW40	959	XGOF	850	XLIR	1230
CX6	650	HAL	546	LKR	1348	PRA4	840	RW41	563	XGOG	560	XLKA	1194
CX8	690	HC2ET	1153	LKS	1276	PRA5	1295	RW42	565	XGOH	590	XLKS	1490
CX10	730	HC2JB	1250	LKT	629	PRA6	815	RW46	686.5	XGOI	900	XLPH	1210
CX12	770	HJN	681	LR1	1070	PRA7	706	RW48	704	XGOK	750	XLTC	1210
CX14	810	HJ1ABA	1330	LR2	910	PRA8	750	RW50	617	XGOL	1030	XMHA	600
CX16	850	HJ1ABM	1154	LR3	950	PRA9	1000	RW51	794	XGOM	1450	XMHB	980
CX18	890	HJ3ABD	1100	LR4	990	PRB2	882	RW52	556	XGOP	950	XMHC	700

FOREIGN B. C. STATIONS BY CALLS

XMHD	840	ZEK	640	2CA	1050	2UE	950	3GI	830	4CA	1390	5CK	640
XOCL	1500	ZJV	920	2CH	1190	2UW	1110	3GL	1350	4GR	1000	5CL	730
XOMO	1450	ZP1	1135	2CO	670	2WG	1150	3HA	1010	4GY	1430	5DN	960
XQHA	580	ZP4	1275	2CR	550	2WL	1430	3HS	1370	4IF	1440	5KA	1200
XQHB	820	ZP5	1465	2FC	610	2XN	1340	3KZ	1180	4LG	1100	5MU	1340
XQHC	1300	ZP9	898	2GB	870	2YA	570	3LO	770	4MB	1060	5PI	1040
XQHD	1360	ZTB	790	2GF	1210	2YB	760	3MA	900	4MK	1160	5RM	850
XQHE	1460	ZTC	600	2GN	1390	2YC	840	3MB	1450	4PM	1360	5AM	980
XQHF	1480	ZTD	750	2GZ	990	2ZD	1170	3SH	1080	4QG	800	6CK	1240
XQHG	1220	ZTJ	645	2HD	1140	2ZF	960	3TR	1240	4QN	600	6GF	720
XQKA	1350	ZTP	952	2KA	1160	2ZH	820	3UZ	930	4RK	910	6IX	1240
XQKB	750	ZUG	560	2KO	1410	2ZJ	980	3WR	1260	4RO	1330	6KA	1070
XQKC	810	1YA	650	2KY	1020	2ZL	1240	3XY	1420	4TO	1170	6KG	1210
YDA	1510	1YX	880	2LV	820	2ZM	1150	3YA	720	4WK	900	6MD	1330
YLZ	583	1ZB	1090	2MO	1360	2ZN	1400	3YB	1060	4YA	790	6ML	1130
YN	648	1ZM	1260	2NC	1230	2ZP	900	3YL	1200	4YO	1140	6PR	890
YVIRC	960	1ZS	1420	2NR	700	2ZR	920	3ZM	1470	4ZB	1010	6WA	560
VY3RC	1200	2AD	1080	2NZ	1170	3AK	1500	3ZR	940	4ZC	1280	6WF	690
VY4RC	750	2AY	1480	2QN	1440	3AR	580	4AK	1220	4ZL	1220	7BU	660
VY5RMO	1300	2BE	1470	2RG	1470	3AW	1280	4AY	1450	4ZM	1010	7HO	860
VY11RMO	1034	2BH	1330	2RN	1340	3BA	1320	4BC	1120	4ZO	1010	7LA	110J
VY6RV	670	2BL	740	2SM	1270	3BO	970	4BH	1380	4ZP	620	7NT	710
ZBW	845	2BS	1450	2TM	1300	3DB	1030	4BK	1290	4ZR	1340	7UV	1460
								4BU	1480	5AD	1310	7ZL	590

The DX Calendar

SPECIAL programs arranged by the stations for the benefit of distant listeners. All times are in Eastern Standard.

Sunday mornings

November 22

3:30-4:30 WCOP 1120 Boston, Mass.

November 29

2:00-5:00 CFCL 930 Prescott, Ont. NRC

3:00-6:00 KWSC 1220 Pullman, Wash.

December 6

3:00-4:00 KFXM 1210 San Bernardino, Cal. NNRC

December 13

2:00-4:00 WNBC 1380 New Britain, Conn. NNRC

December 20

1:00-3:00 WHAZ Troy, N. Y.

3:00-4:00 KXA 760 Seattle, Wash. UDXC

4:30-5:30 KMPC 710 Beverly Hills, Cal. UDXC

December 27

2:00-5:00 CFCL 930 Prescott, Ont. NRC

December 6, 13, 20, 27

12:00-5:00 TGW 1210 Guatemala City, Guat.

2:00-5:00 CMCU 1460 Havana, Cuba

2:30-4:00 CKWX 1010 Vancouver, B. C.

3:00-5:00 CFCT 1450 Victoria, B. C.

XEP 1160 Juarez, Chih.

Monday mornings

December 7

5:30-6:00 WRWA 1310 Reading, Pa.

December 14

1:00-2:00 WHEF 1500 Kosciusko, Miss

2:00-6:00 FCC Frequency Checks

Tuesday mornings

December 8

2:00-6:00 FCC Frequency Checks

December 1, 8, 15, 22, 29

5:30-5:45 WHEC 1430 Rochester, N. Y.

Wednesday mornings

November 28

2:30-3:00 WHBQ 1370 Memphis, Tenn. NNRC

December 2

3:00-3:30 WHBQ 1370 Memphis, Tenn. NNRC

December 9

2:00-5:50 FCC Frequency Checks

December 16

5:30-6:00 WAWZ 1350 Zarephath, N. J. NNRC

December 30

2:30-3:00 WHBQ 1370 Memphis, Tenn. NNRC

December 2, 30

1:30-2:30 WSUI 880 Iowa City, Ia.

December 2, 9, 16, 23, 30

6:00-6:30 WOOD 1270 Grand Rapids, Mich.

Thursday mornings

December 3

5:00-5:30 WFLA 620 Clearwater, Fla

December 10

2:00-5:50 FCC Frequency checks

Friday mornings

December 4

4:00-5:00 KIUN 1420 Pecos, Texas

December 11

2:00-6:00 FCC Frequency checks

Saturday mornings

November 21

3:00-4:00 KIUP 1370 Durango, Colo. NNRC

3:30-4:00 WEXL Royal Oak, Mich. NRC

November 28

3:00-4:00 KFRO 1370 Longview, Texas NNRC

6:00-7:00 WTRC 1310 Elkhart, Ind. NRC

December 12

2:00-6:30 FCC Frequency checks

December 19

2:30-3:30 KMJ 580 Fresno, Calif. UDXC

3:00-4:00 KVI 570 Seattle, Wash. UDXC

3:30-4:30 KVL 1370 Seattle, Wash. UDXC

4:30-5:30 KRE 1370 Berkeley, Calif. UDXC

December 26

3:00-4:00 KFRO 1370 Longview, Texas NNRC

6:00-7:00 WTRC 1310 Elkhart, Ind. NRC

In spite of the fact that experimental television broadcasts have been undertaken in New York City, it is becoming evident that Hollywood will be the capital of visual radio as it is for the movies.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

540 kcys. (555.2)

CJRM ak 1000 F Moose Jaw, Sask. —Su. 1400-0100; †0930-0130

550 kcys. (545.1)

CFNB mk 500 F (1) Fredericton, N. B. —Su. 1000-1100; †0700-2300
 KFUD ae 500 2 (1) St. Louis, Mo. —Su. 0930-1330; 1600-1730; 2215-2315. †0800-0900; 1030-1045; 1315-1345; 1600-1645; 2300-2400
 KFYR ae 1000 N (5) Bismarck, N. D. —Su. 0900-0100; †0800-0100
 KOAC ak 1000 Corvallis, Ore. —†1200-2400
 KSD ak 1000 2R (5) St. Louis, Mo.
 K TSA ak 1000 C (5) San Antonio, Tex.
 WDEV ae 500 D Waterbury, Vt.
 WGR ae 1000 C Buffalo, N. Y. —Su. 0900-0100; †0700-2400
 WKRC ak 1000 CX Cincinnati, Ohio
 WSYA ak 500 D Harrisonburg, Va.
 XEFC ak 250 Merida, Yuc.

560 kcys. (535.4)

KFDM ak 500 (1) Beaumont, Tex.
 KLZ ae 1000 C (5) Denver, Colo. —Su. 0900-0130; †0830-0200
 KSFO ak 1000 San Francisco, Cal. —Su. 1100-0400; †1000-0400
 KWTO ak 5000 D Springfield, Mo.
 WFIL ak 1000 B Philadelphia, Pa. —Su. 0800-2400; †0700-2400
 WIND ak 1000 (5) Gary, Ind. —M. 0600-0200; daily exc. M., 0600-0400
 WIS ae 1000 N (5) Columbia, S. C. —Su. 0800-2400; †0700-2400
 WQAM ak 1000 C Miami, Fla. —†0700-2400
 XEAO ak 250 Mexicali, L. C.

570 kcys. (526.0)

KGKO ak 250 C(1)Y Wichita Falls, Tex.
 KMTR ak 1000 Hollywood, Calif. —Su. 1100-0300; †0900-0300
 KVI ak 1000 C(5) Tacoma, Wash.
 WKBN ae 500 1C Youngstown, Ohio
 WMCA ak 500 X New York, N. Y.
 WMAX ak 1000 C (5) Yankton, S. D. —M. thru F., 0900-1100; M thru Th., 1300-1500; M., W., 2000-2200; F., 1900-2300; Sa. 1300-2300
 WOSU ak 750 1 (1) Columbus, Ohio —Su. 0700-2400; †0700-0100
 WSYR ak 1000 B Syracuse, N. Y. —Su. 0800-0100; †0730-0100
 WWNC ak 1000 N Asheville, N. C.

580 kcys. (516.9)

CFPR ak 50 Prince Rupert, B.C.
 CHRC ak 100 F Quebec, Que. —Su. 1200-2400; †0800-2400
 CKCL ag 100 F Toronto, Ont. —Su. 1000-2230; †0800-2400
 CKUA ak 500 Edmonton, Alta.
 KMJ ak 500 C (1) Fresno, Calif. —Su. 1030-0200; †1000-0300
 KSAC ak 500 2 (1) Manhattan, Kans. —†1030-1130; 1330-1500; †1730-1830
 WGH8 ak 500 (1) Charleston, W. Va.
 WDBO ak 1000 C Orlando, Fla. —Su. 0800-2400; †0700-2400
 WIBW ak 1000 C2 (5) Topeka, Kans.
 WILL ak 1000 D Urbana, Ill. —†0900-1200; 1800-1900; 2300-0100
 WTAG ae 500 RX Worcester, Mass. —Sa. 0730-0100; Su. 0900-2400; †0730-2400

590 kcys. (508.2)

KHQ ak 1000 R (2.5) Spokane, Wash.
 WEEL ak 1000 CX Boston, Mass.
 WKZO ak 1000 D Kalamazoo, Mich. —Su. 0815-1815; †0700-1815
 WOW ae 5000 R Omaha, Nebr. —W. 0700-0100; daily exc. W., 0700-0330

600 kcys. (499.7)

CFCF ae 400 FN Montreal, Que.
 CJOR ak 500 Vancouver, B. C. —Su. 0900-2315; †0745-0100
 CMW ak 1400 Havana, Cuba
 CRCW ak 500 F (1) Windsor, Ont. —Su. 1500-2330; †1630-2330
 FQN z 250 609 St. Pierre, Miq.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFSD	ae	1000	B	San Diego, Calif.	
WCAO	ae	500	C (1)	Baltimore, Md.	
WICC	ae	500	C (1)	Bridgeport, Conn.	—Su. 0800-0100; †0700-0100
WMT	ak	1000	B (5)	Cedar Rapids, Ia.	—Su. 0830-0100; †0630-0100
WREC	c	1000	C (5)	Memphis, Tenn.	—Su. 0800-0100; †0730-0100

610 kcys. (491.5)

KFRC	ck	1000	C (5)	San Francisco, Cal.	
WDAF	ak	1000	R (5)	Kansas City, Mo.	—Su. 0800-0100; †0730-0100
WIP	ak	1000	.....	Philadelphia, Pa.	—Su. 0900-0100; †0700-0100
WJAY	ae	500	D	Cleveland, Ohio	
XEXM	z	.....	.....	Mexico City, D. F.	
XFX	ak	1000	.....	Mexico City, D. F.	

620 kcys. (483.6)

KGW	ak	1000	R (5)	Portland, Ore.	
KTAR	ae	1000	N	Phoenix, Ariz.	—Su. 1000-0115; †0900-0115
WFLA	ae	1000	Na (5)	Clearwater, Fla.	—Su. 0800-2400; M., W., F., 0700-0100
WHJB	ak	250	D C	Greensburg, Pa.	—Sign off at 1700
WLBZ	ak	500	C (1)	Bangor, Maine	
WSUN	ae	1000	Na (5)	St. Petersburg, Fla.	—Su. 0800-2400; Tu., Th., Sa., 0700-0100
WTMJ	ak	1000	N (5)	Milwaukee, Wis.	—Su. 0830-0100; †0715-0100

630 kcys. (475.9)

CFCO	ak	100	F	Chatham, Ont.	—Su. 0930-1215; 1345-2200; †0800-1330; 1700-2230
CFCY	ae	1000	F	Charlottetown, P.E.I.	—Su. 1000-1200; 1700-2300; †0900-1200; 1600-2300
CJRC	ak	1000	F	Winnipeg, Man.	—*0830-0030
CKOV	ak	100	F	Kelowna, B. C.	—Su. 1330-0130; †1100-1500; 2000-0130
KFRU	ak	500	1 (1)	Columbia, Mo.	—Sa. 0700-2300; Su. 0830-ss; †0700-2130
KGFX	ak	200	D	Pierre, S. D.	
WGBF	ak	500	1	Evansville, Ind.	
WMAL	ak	250	B (5)	Washington, D. C.	—Su. 0800-2400; †0700-0200
WOS	ak	500	1D	Jefferson City, Mo.	
WPRO	ak	500	(1)	Providence, R. I.	—Su. 0800-0100; †0700-0100
XEZ	z	500	.....	Merida, Yuc.	

640 kcys. (468.5)

CMBC	dj	150	.....	Havana, Cuba	
KFI	ak	50000	R	Los Angeles, Calif.	—*0945-0300
WHKC	ak	500	.....	Columbus, Ohio	—Su. 0830-2015; †0630-2015
WOI	ae	5000	D	Ames, Iowa	
WSPG	z	500	P	Portland, Me.	
XEOX	ak	500	.....	Saltillo, Coah.	

650 kcys. (461.3)

TIGPH	ak	1000	.....	San Jose, C. R.	
WSM	ae	50000	N	Nashville, Tenn.	—Su. 0900-0100; †0730-0100

660 kcys. (454.3)

WAAW	ae	500	D	Omaha, Neb.	—Su. 0900-1800; †0700-ss
WEAF	ak	50000	R	New York, N. Y.	—Su. 0800-0100; †0730-0100

670 kcys. (447.5)

WMAQ	ak	50000	N	Chicago, Ill.	—Su. 0900-0100; †0700-0100
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680 kcys. (440.9)

CMCG	ak	1000	Havana, Cuba	—*0700-2400
KFEQ	ak	2500	D	St. Joseph, Mo.	—Su. 0900-ss; †0700-ss.
KPO	ak	50000	R	San Francisco, Cal.	—*1100-0300
RDN	z	500	.....	San Salvador, E. S.	
VAS	akn	2000	685	Glace Bay, N. S.	
VOWR	ck	500	681	St. John's, Nfld.	
WPTF	ak	1000	N (5)	Raleigh, N. C.	—Su. 0900-2300; †0700-2300

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

690 kcys. (434.5)

CFRB	ae	10000	C	Toronto, Ont.	-Su. 1030-2400; †0800-2400
CJCJ	ak	100	F	Calgary, Alta.	-Su. 1200-0100; †0930-0100
NAA	akn	1000	....	Arlington, Va.	
XET	ak	500	Monterrey, N. L.	-Su. 0830-1500; †0830-2200

700 kcys. (428.3)

WLW	ak	500000	N	Cincinnati, Ohio	-Su. 0800-0130; †0630-0130
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710 kcys. (422.3)

KIRO	ak	1000	Seattle, Wash.	-Su. 1000-0400; †0900-0500
KMPC	ak	500	Beverly Hills, Cal.	-Su. 1000-ss.; 0030-0400; †0900-ss.; 0030-0400
WOR	ak	50000	....	Newark, N. J.	
XEN	ak	1000	....	Mexico City, D. F.	

720 kcys. (416.4)

WGN	ak	50000	....	Chicago, Ill.	
XEH	ak	250	....	Monterrey, N. L.	-†1000-2100

730 kcys. (410.7)

CFPL	ak	100	F	London, Ont.	
CJCA	ak	1000	F	Edmonton, Alta.	-Sa. 0900-0300; Su. 1100-0100; †0900-0200
CKAC	ak	5000	CF	Montreal, Que.	-Su. 0900-0100; †0730-0100
CKPR	ak	100	F	Fort William, Ont.	-Su. 1500-2300; †0900-1400; 1700-2300
CMK	ae	3000	....	Havana, Cuba	
XEBC	z	5000	....	Agua Caliente, L.C.	
XEPN	ak	100000	....	Piedras Negras, Ch.	

740 kcys. (405.2)

KMMJ	ae	1000	D	Clay Center, Neb.	
KTRB	ak	250	D	Modesto, Calif.	-Su. 1130-2030; †0900-2030
WHEB	ak	250	D	Portsmouth, N. H.	
WSB	ae	50000	N	Atlanta, Ga.	-Su. 0755-0100; †0655-0100

750 kcys. (399.8)

CMCW	dk	150	....	Havana, Cuba	
EGU	aj	2500	N	Honolulu, T. H.	-*1130-0400; Su. 0400-0430
WJR	ak	50000	C	Detroit, Mich.	-Su. 0800-0100; †0530-0200
XEAM	z	7.5	....	Matamoros, Tams.	

760 kcys. (394.5)

CMHX	ak	200	....	Glenfuegos, Cuba	
KXA	ae	250	(.5)	Seattle, Wash.	
WBAL	ae	2500	BSy	Baltimore, Md.	
WEW	ae	1000	D	St. Louis, Mo.	-Su. 0900-1100; †0800-ss.
WJZ	ak	50000	BSy	New York, N. Y.	-Su. 0800-0100; †0730-0100
XEOK	ak	250	....	Tijuana, L. C.	

770 kcys. (389.4)

CMBS	ak	150	....	Havana, Cuba	
KFAB	ak	10000	CSy	Lincoln, Neb.	-*0700-0100
WBBM	ae	50000	CSy	Chicago, Ill.	

780 kcys. (384.4)

CHWK	dk	100	F	Chilliwack, B. C.	-Su. 1500-0100; †1100-1700; 2000-0115
CKSO	ak	1000	F	Sudbury, Ont.	-Su. 1500-2300; †0900-1400; 1700-2400
CMJK	ak	250	....	Camaguey, Cuba	-Su. 1100-1300; †1100-1400; Sa. 1700-2300;
KEHE	ak	500	(1) X	Los Angeles, Calif.	†1800-2200
KFDY	ae	1000	D	Brookings, S. D.	-†1330-1500
KFOD	ck	250	....	Anchorage, Alaska	
KGHL	ak	1000	N(5)	Billings, Mont.	-Su. 1100-0100; †1000-0100
WEAN	ae	500	CX	Providence, R. I.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WMC ak 1000 N (5.) Memphis, Tenn. —Su. 0800-0100; †0745-0100
 WTAR ae 500 NX (1) Norfolk, Va.
 KEYZ z 10000 Mexico City, D. F.

790 kcys. (379.5)

CMGH z 250 Matanzas, Cuba
 KGO ak 7500 B San Francisco, Cal. —Su. 1100-0300; †1000-0300
 WGY ak 5000 R Schenectady, N. Y. —Su. 0900-0100; †0700-0100
 z 1000 DP Pittsburg, Kans.

800 kcys. (374.8)

HIX ak 700 Trujillo, D. R. —Su. 0740-1040; Tu., F., 2010-2210; †1240-1340
 TIX ak San Jose, C. R.
 WBAP ak 50000 Na Fort Worth, Tex. —Su. 1100-1300; 1600-1900; 2300-0130; †0700-0800; 0930-1130; 1330-1600; 1830-1930; M., W., F., 2300-0030; Tu., Th., Sa., 2000-2300
 WFAA ak 50000 Na Dallas, Tex. —Su. 0900-1100; 1300-1600; 1900-2200; †0000-0930; 1130-1330; 1600-1830; M., W., F., 1930-2300; Tu., Th., Sa., 1930-2000; 2300-0030
 WTBO ak 250 D Cumberland, Md. —Su. 1030-ss.; †0830-ss.

810 kcys. (370.2)

CMCF ak 600 Havana, Cuba
 WCCO ae 50000 C Minneapolis, Minn. —Su. 0900-0100; †0730-0100
 WNYC ak 1000 D New York, N. Y. —Su. 0900-1900; †0700-1900
 XFC z 350 Aguascalientes, Ags.

820 kcys. (365.6)

CMHW ak 100 Cienfuegos, Cuba
 WHAS aj 50000 C Louisville, Ky.
 XEBZ ae 100 Mexico City, D. F. —*1430-0400
 XEMZ z Coronado Isle, L. C.

830 kcys. (361.2)

CMJX ae 500 Camaguey, Cuba —Su. 1000-1400; †0900-1300; 1700-2330
 KOA ak 50000 N Denver, Colo. —Su. 1000-0300; †0900-0200
 WEEU ak 1000 D Reading, Pa. —*0800-1700
 WHDH ae 1000 Dn Boston, Mass.
 WRUF ae 5000 Dn Gainesville, Fla. —Su. 0800-1830; †0700-1830

840 kcys. (356.9)

CFOC ak 1000 F Saskatoon, Sask.
 CRCT ak 5000 FN Toronto, Ont. —Su. 1130-2330; †0745-2330
 VOGY ak 400 St. John's, Nfld.
 XERA ck 350000 Villa Acuna, Coah.

850 kcys. (352.7)

CMBN z 150 Havana, Cuba
 KIEV ak 250 D Glendale, Calif.
 TIEP z 500 San Jose, C. R.
 WESG ak 1000 C Elmira, N. Y. —Su. 0800-1800; †0730-1800
 WKAR ae 1000 D East Lansing, Mich. —†0700-1700
 WWL ae 10000 C New Orleans, La. —Su. 0900-0100; †0730-0100

860 kcys. (348.6)

WBAC ae 50000 C New York, N. Y. —Su. 0800-0100; †0730-0100
 WHB ak 1000 D Kansas City, Mo.
 XEMO ak 5000 Tijuana, L. C. —Su. 1100-0200; †0945-0300

870 kcys. (344.6)

WENR ak 50000 Na Chicago, Ill. —Su. 1200-1830; 2000-2400; †1500-1900; †2030-2400
 WLS ae 50000 Na Chicago, Ill. —Su. 0800-1200; †0600-1500

880 kcys. (340.7)

CFJC ak 100 F Kamloops, B. C. —Su. 1500-0115; †1230-1630; 1830-0115
 CMQ ak 500 Havana, Cuba
 CRCO ak 1000 F Ottawa, Ont. —Su. 1030-2400; †0800-0930; Sa. 1200-2400; †1200-1400; 1700-2400

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFFA	ak	500	2 (1)	Greeley, Colo.	-Su. 1830-2030; †0730-0930; 1100-1630; 1830-2030; 2230-0100
KLX	ae	1000	....	Oakland, Calif.	-Su. 1500-0230; †1030-0230
KPOF	ae	500	2	Denver, Colo.	
WCOC	ae	500	(1)	Meridian, Miss.	
WGBI	ae	500	1	Scranton, Pa.	-Su. 1230-2115; †0700-1230; 1330-1630; M., W., Th., Sa., 1730-2230; Tu., F., 1730-2000
WPHR	ak	500	D	Petersburg, Va.	-*0730-ss.
WQAN	ae	250	1	Scranton, Pa.	-†1230-1330; 1630-1730; M., W., F., 0900-0930; Tu., F., 2000-2200
WSUI	ae	500	(1)	Iowa City, Iowa	-Su. 1015-1045; †1000-2300

890 kcys. (336.9)

KARK	ak	250	(.5)X	Little Rock, Ark.	-Su. 0900-0100; †0700-0100
KFNF	ak	500	2 (1)	Shenandoah, Iowa	-Su. 0900-1300; 1500-1700; 1800-1945; †0630-1700; 1900-2200
KFPY	ak	1000	C (5)	Spokane, Wash.	-Su. 1200-0300; †0950-0300
KUSD	ae	500	2	Vermillion, S. D.	
WBAA	ak	500	(1)	W. Lafayette, Ind.	-Sa. 1200-1700; Su. 1500-1700; †1200-1800
WGST	ak	1000	C	Atlanta, Ga.	
WJAR	ae	1000	R	Providence, R. I.	-Su. 0900-0100; 0730-0100
WMMN	ak	500	C (1)	Fairmont, W. Va.	-Su. 0900-0100; †0700-0100
XEW	ak	50000	....	Mexico City, D. F.	

900 kcys. (333.1)

KGBU	ak	500	X	Ketchikan, Alaska	-Su. 0400-0500; 2100-2300; †1300-1800; 2100-0500
KHJ	ae	1000	C (5)	Los Angeles, Calif.	
KSEI	ae	250	(.5)	Pocatello, Idaho	-Su. 1200-0100; †0930-0100
WBEN	ak	1000	R (5)	Buffalo, N. Y.	-Su. 0900-2400; M., Tu., Th., F., 0700-2400; W., Sa., 0700-0100
WELI	ak	500	D	New Haven, Conn.	-*0600-ss.
WFMD	ak	500	D	Frederick, Md.	-Su. 1000-ss.; †0630-ss.
WJAX	ak	1000	N (5)	Jacksonville, Fla.	-Su. 0900-2400; M., 10645-0100
WKY	ae	1000	N (5)	Oklahoma City, Okla.	-Su. 0900-0100; †0745-0100
WLBL	ak	2500	DX	Stevens Point, Wis.	-†0900-1700; Sa. 0900-1400
WTAD	ak	500	D	Quincy, Ill.	-* -1745

910 kcys. (329.6)

GJAT	ak	1000	F	Trail, B. C.	-Su. 1345-0200; †1000-0200
CKY	ak	15000	F	Winnipeg, Man.	-Su. 1200-0030; †0800-0100
CRCM	ak	5000	F	Montreal, Que.	-*0500-2330
XENT	ak	150000	...	Nuevo Laredo, Tams.	

920 kcys. (325.9)

CMX	ae	1000	....	Havana, Cuba	-M., 1100-0100; daily exc. M., 0800-0100
HHK	ae	1000	...	Port-au-Prince, Haiti	
KFEL	ak	500	a	Denver, Colo.	-Su. 1230-2130; †0800-1030; 1230-1430; 1700-1830; 2000-2130; Tu., Th., F., 2300-0230
KOMO	ak	1000	R (5)	Seattle, Wash.	
KPRC	ak	1000	N (5)	Houston, Texas	
KVOD	ak	500	a	Denver, Colo.	
WAAF	ak	1000	D	Chicago, Ill.	-*0600-ss.
WORL	ae	500	D	Boston, Mass.	
WPEN	ak	250	(.5)1	Philadelphia, Pa.	
WRAX	ak	250	1 (.5)	Philadelphia, Pa.	-*0630-1800
WSPA	ae	1000	D	Spartanburg, S. C.	-Su. 0800-0030; †0600-0030
WWJ	ak	1000	R (5)	Detroit, Mich.	
XEAA	ak	200	....	Mexicali, L. C.	

930 kcys. (322.4)

CFAC	ak	100	F	Calgary, Alta.	-Su. 1100-0100; †0900-0200
CFCH	ak	100	F	North Bay, Ont.	
CFLC	ae	100	....	Prescott, Ont.	-Su. 0700-2000; †0800-1000; 1200-1400; M., W., Th., Sa., 1700-1930; Tu., F., 1700-2200
CHNS	ae	1000	F	Halifax, N. S.	-Su. 1400-2300; †0730-1230; 1600-2300
CKPC	ae	100	F	Brantford, Ont.	
KMA	ak	1000	(2.5)	Shenandoah, Iowa	
KROW	ak	1000	....	Oakland, Calif.	-Su. 1100-0500; †0900-0500
TIRH	z	50	....	San Jose, C. R.	
WBRC	ak	1000	C	Birmingham, Ala.	-*0800-0030
WDBJ	ae	1000	C (5)	Roanoke, Va.	-Su. 0830-0030; †0700-2400
XEBJ	ak	500	....	Hermosillo, Sonora	-*1300-1600; 2100-2400

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

940 keys. (319.0)

KOIN	ak	1000	C (5)	Portland, Ore.	
VOAS	ak	100		St. John's, Nfld.	
WAAT	ak	500	D	Jersey City, N. J.	-*0630-1800
WAVE	ak	1000	N	Louisville, Ky.	-Su. 0900-0100; †0800-0100
WCSH	ak	1000	R (2.5)	Portland, Maine	-Su. 0845-2400; †0800-2400
WDAY	ae	1000	N (5)	Fargo, N. D.	-Su. 0800-0100; †0700-0100
WHA	ak	5000	D	Madison, Wis.	-†0900-1730
XEFO	ak	5000	(XFO)	Mexico City, D. F.	

950 keys. (315.6)

CJOC	ak	100	F	Lethbridge, Alta.	-Su. 1030-0030; †0900-0100
CMCD	ak	250		Havana, Cuba	-Su. 1000-2100; †1200-0100
CRCS	ak	100	F	Chicoutimi, Que.	-Su. 1500-2330; †1630-2300
KFWB	ak	1000	(5)	Hollywood, Calif.	
KHSL	ak	250	D	Chico, Calif.	-Su. 1100-1945; †1000-1945
KMBC	ae	1000	C (5)	Kansas City, Mo.	-Su. 0830-0103; †0655-0103
WRC	ak	500	R (1)	Washington, D. C.	-Su. 0700-0100; †0630-0100
YNVA	z	30		Managua, Nic.	

960 keys. (312.3)

CFRN	ak	100	F	Edmonton, Alta.	-Sa. 0930-0200; Su. 1200-0100; †0930-1300
CHNC	ak	1000	F	New Carlisle, Que.	-Su. 1000-1200; 1500-2300; †0730-0900; 1100-1230; 1600-2300
XEAW	ck	50000		Reynosa, Tams.	

970 keys. (309.1)

CMBY	z	150		Havana, Cuba	
KJR	ak	5000	B	Seattle, Wash.	
WCFL	ae	5000	B	Chicago, Ill.	
WIBG	ak	100	D	Glenside, Pa.	

980 keys. (306.0)

KDKA	c	50000	B	Pittsburgh, Pa.	
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990 keys. (302.8)

WBZ	ak	50000	BSy	Boston, Mass.	-Su. 0800-0100; †0630-0100
WBZA	c	1000	BSy	Springfield, Mass.	
XEAF	ak	500		Nogales, Sonora	
XEK	ak	100		Mexico City, D. F.	
XES	dk	250		Tampico, Tams.	

1000 keys. (299.8)

CMBZ	ak	500	(1)	Havana, Cuba	-18 hours daily
KFVD	ae	250	Dn	Los Angeles, Calif.	-*0100-0700; Su. 1100-2015; †0900-2015
TIGH	z	500		San Jose, C. R.	
WHO	ak	50000	R	Des Moines, Iowa	-Su. 1000-0100; †0700-0100
XEBK	ak	100		Nuevo Laredo, Tams.	-Su. 1200-1500; †1000-2030
XEY	z	10		Merida, Yuc.	

1010 keys. (296.9)

CHML	ak	100	F	Hamilton, Ont.	-Su. 0900-2230; †0800-2400
CKCD	ak	100	I	Vancouver, B. C.	
CKCD	ak	100		Vancouver, B. C.	
CKCK	ak	500	F	Regina, Sask.	-Su. 1200-0100; †0930-0200
CKCO	ak	100	F	Ottawa, Ont.	-*1200-2330
CKIC	ak	50		Wolfville, N. S.	
CKWX	ak	100	F 1	Vancouver, B. C.	-Su. 1200-0200; 0230-0400; M., Tu., Th., Sa., 1000-2230; W., F., 1000-2330; Th., Sa., 0000-0200
CMJA	ak	300		Camaguey, Cuba	
KGGF	ak	1000	2	Coffeyville, Kans.	
KQW	ae	1000		San Jose, Calif.	-Su. 1130-0300; †0930-0300
TIGA	z	30	1014	Cartago, C. R.	
WHN	ae	1000	(5)	New York, N. Y.	
WNAD	ae	1000	2	Norman, Okla.	-M., Tu., W., Th., 1500-1700; Tu. Th., 2015-2215; W., 2115-2215
WNOX	ak	1000	C (2)	Knoxville, Tenn.	-Su. 0900-0100; †0630-0200
XEU	ak	250		Veracruz, Ver.	-*0800-0100

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1020 kcys. (293.9)

KYW	ak	10000	R	Philadelphia, Pa.	—Su. 0800-0100; †0705-2200
WDZ	ak	250	D	Tuscola, Ill.	—Su. 0900-1800; †0700-1800
XEJ	ak	1000	....	Juarez, Chih.	

1030 kcys. (291.1)

CFCN	ak	10000	....	Calgary, Alta.	
CKLW	ae	5000	....	Windsor, Ont.	—Su. 0800-0100; †0645-0130
CMGY	ak	5000	....	Havana, Cuba	—*1000-2400
XEB	ak	10000	....	Mexico City, D. F.	—*1000-2415

1040 kcys. (288.3)

KRLD	ak	10000	C	Dallas, Texas	—*0700-0100
KWJJ	ak	500	....	Portland, Ore.	
KYOS	z	250	D	Merced, Calif.	
WTIC	ah	50000	R	Hartford, Conn.	

1050 kcys. (285.5)

CMKD	ak	250	....	Santiago, Cuba	
CRCK	ak	1000	F	Quebec, Que.	—Su. 1630-2330; †1700-2330
KFBI	ak	5000	Dn	Abilene, Kans.	—Su. 0900-1945; †0700-1945
KNX	ak	50000	....	Hollywood, Calif.	—Su. 1100-0230; †0930-0315
TIFA	z	75	....	San Jose, C. R.	
WEAU	z	250	DP	Eau Claire, Wis.	

1060 kcys. (282.8)

KTHS	ak	10000	N	Hot Springs, Ark.	—*2100-2400; Su. 1100-ss.; †0900-ss.
VOAC	z	40	1065	St. John's, Nfld.	
WBAL	ak	10000	B (25)	Baltimore, Md.	—Su. 0800-2400; †0700-2400
WJAG	ak	1000	D	Norfolk, Neb.	—Su. 1100-ss.; †0730-ss.
XEA	ak	500	....	Guadalajara, Jal.	

1070 kcys. (280.2)

CMBX	ak	500	....	Havana, Cuba	
CMHA	z	50	....	Sagua la Grande, C.	
KJBS	ak	500	Dn	San Francisco, Cal.	—*0100-2030
WCAZ	ak	100	D	Carthage, Ill.	
WTAM	ak	50000	R	Cleveland, Ohio	—Su. 0700-2400; †0600-2400

1080 kcys. (277.6)

WBT	ak	50000	G	Charlotte, N. C.	—Su. 1000-2400; †0645-2400
WCBD	ak	5000	1DnY	Waukegan, Ill.	
WBMI	ak	5000	1Dn	Chicago, Ill.	

1090 kcys. (275.1)

KMOX	ak	50000	C	St. Louis, Mo.	—Sa. 0700-0130; Su. 0830-0100; †0700-0100
XEAQ	ak	1000	....	Rosarito, L. C.	

1100 kcys. (272.6)

CRCV	ak	1000	FX	Vancouver, B. C.	
KGDM	ak	1000	D	Stockton, Calif.	—*0900-ss.
KWKH	ae	10000	G	Shreveport, La.	—Su. 0900-0100; †0730-0100
WLWL	ae	5000	I	New York, N. Y.	—Su. 1515-1630; 2000-2115; †1800-2000; F., 1400-1500
WPG	ak	5000	1C	Atlantic City, N. J.	—Su. 0900-1515; 1630-2000; 2115-2400; M., Tu., W., Th., Sa. 0900-1800; 2000-2400; F., 0900-1400; 1500-1800; 2000-2400
XEL	z	250	....	Mexico City, D. F.	

1110 kcys. (270.1)

CMCJ	ak	500	....	Havana, Cuba	
KSOO	ak	2500	Dn	Sioux Falls, S. D.	—Su. 1000-1845; †0700-1845
WRVA	ak	5000	N	Richmond, Va.	—Su. 1000-2400; †0700-2400
XELO	z	10000	....	Piedras Negras, Co.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1120 kcs. (267.7)

CPLP	ak	100	F	Montreal, Que.	—Su. 1700-2100; †0900-2300
CHSJ	ak	500	F (1)	St. John, N. B.	—Su. 1000-1100; 1400-2300; †0500-0505; 0630-2400
CKOC	ae	500	F (1)	Hamilton, Ont.	
CKX	ak	100	F	Brandon, Man.	
CMGF	dk	150	....	Matanzas, Cuba	
CMKM	ak	200	....	Manzanillo, Cuba	—†0800-1200; 1800-2200
KFIO	ae	100	D	Spokane, Wash.	
KFSG	ag	500	a (2.5)	Los Angeles, Calif.	
KRKG	ak	500	a (2.5)	Los Angeles, Calif.	—Su. 0930-1330; 1530-1800; 1900-2200; †0900-2245; F., 2245-0300
KRSC	ak	100	DX	Seattle, Wash.	
WCOP	ak	500	D	Boston, Mass.	—*0800-1600
WDEL	ak	250	(.5)	Wilmington, Del.	—Su. 0900-2300
WISN	ak	250	(1) C	Milwaukee, Wis.	—Su. 0900-0100; †0800-0100
WTAW	ae	500	....	College Station, Tex.	

1130 kcs. (265.3)

CMJI	ak	150	....	Ciego de Avila, Cuba	—Su. 0700-2400; †1200-2200
KSL	ak	50000	C	Salt Lake City, Utah	—Sa. 0830-0200; Su. 0200-to 0300 M.; †0830-0300
WJJD	ak	20000	Dn	Chicago, Ill.	—Su. 0730-1845; †0600-1845
WOV	ag	1000	D	New York, N. Y.	

1140 kcs. (263.0)

CMBG	z	200	....	Havana, Cuba	
KVOO	ak	25000	1N	Tulsa, Okla.	
WAPI	ak	5000	1N	Birmingham, Ala.	
WSPR	ak	500	D	Springfield, Mass.	—Su. 0845-1745; †0700-1745

1150 kcs. (260.7)

CMJF	z	200	....	Camaguey, Cuba	
WHAM	ae	50000	B	Rochester, N. Y.	—Su. 0830-2400; 0700-2400
XEFL	ak	250	....	Tijuana, L. C.	
XEWZ	ak	100	....	Mexico City, D. F.	

1160 kcs. (258.5)

CMHJ	ak	175	....	Cienfuegos, Cuba	—Su. 0800-1800; M. 1100-2200; Tu., Th., Sa. 0800-2300; W., F., 0800-2200
WOWO	c	10000	1C	Fort Wayne, Ind.	
WWVA	ak	5000	1C	Wheeling, W. Va.	—Su. 0700-2200; M., Tu., F., 0600-2030; W. 0600-2000; Th., 0600-2100; Sa., 0600-0200; Tu., Th., 2330-0100
XEAS	z	100	....	Saltillo, Coah.	
XEC	z	30	....	Tijuana, L. C.	
XED	ak	2500	....	Guadalajara, Jaf.	—*1200-1630; 2000-2400
XEP	ak	500	....	Juarez, Chih.	—*0900-0200

1170 kcs. (256.3)

CMBD	ae	500	....	Havana, Cuba	—*0700-2400
WCAU	ak	50000	C	Philadelphia, Pa.	—Su. 0900-0100; †0730-0100

1180 kcs. (254.1)

CMJO	ak	50	....	Ciego de Avila, Cuba	
KEX	ak	5000	2B	Portland, Ore.	
KOB	ak	10000	2	Albuquerque, N.M.	—†1300-2300
VE9EK	ak	10	1185	Montmagny, Que.	
WDGY	ak	1000	Dn (5)	Minneapolis, Minn.	
WINS	ak	1000	....	New York, N. Y.	
WMAZ	ak	1000	....	Macon, Ga.	—Su. 0845-1900; †0700-1900
XEFA	z	500	....	Mexico City, D. F.	

1190 kcs. (252.0)

HJ	z	15	1195	Trujillo, D. R.	
VONF	ak	500	1195	St. John's, Nfld.	
WATR	ak	100	D	Waterbury, Conn.	
WOAI	ak	50000	N	San Antonio, Tex.	—Su. 0900-0030; †0730-0030
WSAZ	ak	1000	....	Huntington, W. Va.	—Su. 1200-1900; †0700-1900

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1200 kcys. (249.9)

CHAB	ak	100	F	Moose Jaw, Sask.	—Su. 1145-0030; †0900-0030
CKNX	ak	50	....	Wingham, Ont.	—Su. 1100-1300; †1100-1400; 1800-2100; Sa. 2300-0100
CKTB	ag	100	F	St. Catharines, Ont.	—Su. 1045-1300; 1500-2330; †0930-2330
CMCO	ad	250	....	Havana, Cuba	
KADA	ak	100	D	Ada, Okla.	
KBTM	ak	100	D	Jonesboro, Ark.	
KDNC	z	250	P	Lewistown, Mont.	
KFJB	ak	100	(.25)	Marshalltown, Iowa	—Su. 1300-1500; †0700-2200
KFXD	ae	100	(.25)	Nampa, Idaho	—Su. 1300-2000; †0800-2200
KFXJ	ak	100	(.25)	Grand Junc., Colo.	
KGDE	ak	100	(.25)	Fergus Falls, Minn.	—Su. 1000-2200; †0800-2200
KGEK	ak	100	....	Sterling, Colo.	
KGFJ	ae	100	....	Los Angeles, Calif.	—24 hours daily
KGHI	ak	100	(.25)	Little Rock, Ark.	—Su. 0900-1930; †0830-2300
KMLB	ak	100	....	Monroe, La.	
KOOS	ae	250	D	Marshfield, Ore.	—Su. 1500-1900; †1000-1945
KSUN	c	100	(.25)	Lowell, Ariz.	—Su. 1700-2230; †1100-2300; W. 2300-2400
KVCV	z	100	P	Redding, Calif.	
KVEC	z	250	DP	San Luis Obispo, Cal.	
KVOS	dk	100	....	Bellingham, Wash.	
KWG	ak	100	C	Stockton, Calif.	—Su. 1030-0300; †1000-0300
WABI	ak	100	....	Bangor, Maine	
WAIM	ak	100	XZ	Anderson, S. C.	—Su. 0900-1730; †0600-2200
WAYX	ak	100	....	Waycross, Ga.	
WBBZ	ak	100	....	Ponca City, Okla.	—Su. 0930-1830; †0800-2200
WBNO	ak	100	1	New Orleans, La.	—Su. 1100-1300; 1800-2200; †1300-1800; 2100-2400
WCAT	ak	100	D	Rapid City, S. D.	
WCAX	ak	100	....	Burlington, Vt.	
WCLO	ak	100	X	Janesville, Wis.	
WCPO	ak	100	(.25)	Cincinnati, Ohio	—Su. 0800-2300; †0700-2330
WEST	ae	100	3 (.25)	Easton, Pa.	
WFAM	ak	100	8	South Bend, Ind.	
WHBC	ak	100	(.25)	Canton, Ohio	
WHBY	ak	100	(.25)	Green Bay, Wis.	
WIBX	ak	100	(.3) C	Utica, N. Y.	—Su. 0900-0100; †0700-0100
WIL	ak	100	(.25)	St. Louis, Mo.	
WJBC	ak	100	6 (.25)	Bloomington, Ill.	—*1000-1330; 1600-2030
WJBL	ak	100	6	Decatur, Ill.	
WJBW	ak	100	1	New Orleans, La.	—Su. 0200-1100; 1300-1800; 2200-0200; †0200-1300; 1800-2100; 0000-0200
WJNO	ak	100	....	W. Palm Beach, Fla.	—Su. 0900-2200; †0700-2300
WJRD	c	100	D	Tuscaloosa, Ala.	
WKBO	ak	100	3 (.25)	Harrisburg, Pa.	—Su. 1230-1900; †0800-1100; 1500-1800; 2000-2300
WLVA	ak	100	(.25)	Lynchburg, Va.	—Su. 0900-1600; †0700-2300
WMFR	ae	100	D	High Point, N. C.	
WMPC	ak	100	(.25)	Lapeer, Mich.	
WNRI	ak	100	(.25)	Newport, R. I.	
WRBL	ak	100	....	Columbus, Ga.	—Su. 0900-1600; 0730-2100; †0800-2230
WTHT	ak	100	D	Hartford, Conn.	—Su. 0900-1715; 0700-1615
WWAE	ae	100	8	Hammond, Ind.	
.....	z	100	P	Huntsville, Ala.	
.....	z	100	(.25) P	Kinston, N. C.	
.....	z	100	P	Sioux Falls, S. Dak.	

1210 kcys. (247.8)

CJCS	ak	50	....	Stratford, Ont.	—†0800-1330; 1700-2100
CJCU	z	50	....	Aklavik, N. W. T.	
CKBI	ak	100	F	Prince Albert, Sask.	—Su. 1500-0100; †0945-0100
CKCH	ak	100	F	Hull, Que.	—Su. 1700-2300; †0800-2300
CKMC	ak	50	....	Cobalt, Ont.	
CMHI	ak	150	....	Santa Clara, Cuba	
KANS	ak	100	....	Wichita, Kans.	—Su. 0800-2400; †0730-2400
KASA	ck	100	....	Elk City, Okla.	—Su. 0800-2000; †0700-2000
KDLR	ak	100	....	Devils Lake, N. D.	—*0730-2130
KDON	z	100	....	Del Monte, Calif.	
KFJI	ak	100	....	Klamath Falls, Ore.	
KFOR	ae	100	(.25) C	Lincoln, Neb.	—*0800-2315
KFPW	ak	100	....	Fort Smith, Ark.	—Su. 1000-1700; 2230-0100; †1000-1300; M., W., F., 1700-2130; Tu., Th., Sat. 1700-2030; 2200-0100
KFVS	ak	100	6 (.25)	Cape Girardeau, Mo.	—M. Tu., Th., F., Sa., 0900-0300; Su. 1700-2145; M. 0000-0300; W., 0900-2200; Th. 0030-0300
KFXM	ak	100	9	San Bernardino, Calif.	—Su. 1700-2145; M. 0000-0300; †0900-0300
KGLO	z	100	P	Mason City, Iowa	
KGY	ak	100	....	Olympia, Wash.	
KIUL	ak	100	....	Garden City, Kans.	—Su. 1200-2000; †0800-2200

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KLAH	z	100	P	Carlsbad, N. Mex.	
KOCA	z	100	P	Kilgore, Texas	
KPPC	ak	100	9	Pasadena, Calif.	—Su. 1200-1600; 2145-2400; †1000-0030
KVSO	ak	100	.....	Ardmore, Okla.	—Su. 0800-1800; †0800-2300
KWTN	ak	100	.....	Watertown, S. D.	
TGW	ak	10000	.....	Guatemala City	—*1200-1300; †2000-2100; 2200-2400; Sa. 2000-0100
WALR	ak	100	.....	Zanesville, Ohio	—Su. 1000-2100; †0700-2100
WBAX	ae	100	.....	Wilkes Barre, Pa.	
WBBL	ak	100	S	Richmond, Va.	
WBLV	z	100	DP	Lima, Ohio	—Su. 1000-1600; †0600-1715
WBRB	ak	100	3	Red Bank, N. J.	
WCOL	ak	100	N	Columbus, Ohio	—Su. 1000-2200; †0700-2300
WCRW	ae	100	4	Chicago, Ill.	—*1100-1400; 1700-1900
WEBQ	ae	100	6(.25)	Harrisburg, Ill.	—*0700-1000; †1300-1700; Su., 1700-2230; M., W., F., 2130-0100; Tu., Th., Sa., 2030-2200
WEDC	ae	100	4	Chicago, Ill.	
WFAS	ak	100	3	White Plains, N. Y.	—Su. 1800-2100; M., †1300-1900; Tu., 0900-1100; W., 1500-1700; Th., 1300-1700; Sa., 1900-2200; Tu., Th., 2100-2400
WFOY	z	100	P	St. Augustine, Fla.	
WGBB	ae	100	3	Freeport, N. Y.	
WGCM	ae	100	(.25)	Gulfport, Miss.	
WGNV	ak	100	3	Newburgh, N. Y.	—†0730-0900; M., Tu., Th., F., 1100-1300; Sa., 0645-0900; 1130-1500; 2200-2400; Su. 0900-2400
WHBF	ak	100	(.25)	Rock Island, Ill.	—Su. 0800-0105; †0700-0105
WHBU	ak	100	(.25)	Anderson, Ind.	
WIBU	ak	100	(.25)	Poynette, Wis.	
WJBY	ak	100	.....	Gadsden, Ala.	—Su. 1100-2200; †0800-2230
WJEJ	ae	100	D	Hagerstown, Md.	—Su. 0830-2300; M., W., F., 0630-ss.; Tu., Th., Sa., 0630-2300
WJIM	z	100	(.25)	Lansing, Mich.	—Su. 0900-0030; †0715-0030
WJW	ae	100	(.25)	Akron, Ohio	—†0800-2230; F., 2230-2300; Sa., 2230-0200; Su. 0930-2230
WKOK	ak	100	.....	Sunbury, Pa.	—Su., 0600-1300; M., W., F., 1200-2400; Tu., Th., Sa., 1200-1800
WLMU	z	100	P	Middlesboro, Ky.	
WMBG	ak	100	C(.25)	Richmond, Va.	—Su. 1330-1630; 2130-2400; †0700-2400
WMFG	ak	100	X	Hibbing, Minn.	—Su. 1300-2200; †0730-2200
WMFN	ak	100	Y	Clarksdale, Miss.	
WOCL	ak	50	.....	Jamestown, N. Y.	
WOMT	ak	100	.....	Manitowoc, Wis.	
WPAX	ak	100	D	Thomasville, Ga.	—Su. 0900-1600; †0800-1800
WSAY	z	100	DP	Rochester, N. Y.	
WSBC	ae	100	4	Chicago, Ill.	—*0600-0830; 1000-1100; 1400-1530; 2000-2200; 2300-2400
WSIX	ak	100	Y	Springfield, Tenn.	—Su., 0900-0100; †0700-0100
WSOC	ak	100	N(.25)	Charlotte, N. C.	—Su. 0900-2400; †0700-2400
WTAX	ak	100	.....	Springfield, Ill.	
XEAT	ak	300	(.25)	Hidalgo, Chih.	—Su. 1100-1700; 1100-2100
XEE	z	50	.....	Durango, Dgo.	
XEFV	ak	100	.....	Juarez, Chih.	
XETH	ak	100	.....	Puebla, Pue.	

1220 keys. (245.8)

CMJE	z	50	.....	Camaguey, Cuba	
KFKU	ak	1000	a (5)	Lawrence, Kans.	—†1530-1600; M., Tu., Th., Sa., 1900-1915; W., F., 1900-1930
KTW	ak	1000	S2	Seattle, Wash.	
KWSC	ae	1000	2 (5)	Pullman, Wash.	—†0945-1100; 1330-0030 (Th. to 2230 only)
TIVCA	ak	.....	1225	San Jose, C. R.	
WCAD	ak	500	D	Santon, N. Y.	—†1230-1330; 1500-1600; Su. irreg.
WCAE	ak	1000	R(5)	Pittsburgh, Pa.	—Su. 0800-0200; †0700-0230
WDAE	ae	1000	C (5)	Tampa, Fla.	—Su. 0800-?; †0730-?
WREN	ak	1000	Ba(5)	Lawrence, Kas.	—Su. 0900-0100; †0800-1530; 1600-1900; M., Tu., Th., Sa., 1915-0100; W. F., 1930-0100
XETF	ak	30	.....	Veracruz, Ver.	—Su. 1100-1600; 2100-0100; †1100-1300; 1930-0100

1230 keys. (243.8)

CMCB	ak	150	.....	Havana, Cuba	
KGBX	ak	500	.....	Springfield, Mo.	
KGGM	ak	250	(.5)	Albuquerque, N. M.	—Su., 1245-2000; †0930-2330
KYA	ak	1000	N	San Francisco, Calif.	
WFBM	ae	1000	C(5)	Indianapolis, Ind.	—Su., 0800-0100; †0730-0100
WNAC	ak	1000	R (5)	Boston, Mass.	—Su., 0800-0100; †0630-0100
XEFJ	ak	100	.....	Monterrey, N. L.	—†1100-1500; 1800-2000
YNOP	z	100	Managua, Nic.	

1240 keys. (241.8)

CJCB	ak	1000	F	Sydney, N. S.	—Su. 1400-2300; †0700-1300; 1500-2300
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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

CMHB	z	50	Sancti Spiritus, Cuba	
KGCU	ak	250	1	Mandan, N. D.	
KLPM	ak	250	1	Minot, N. D.	-Su. 1000-1245; 1430-1530; 1800-2100; †0800-1400; 1900-2045; 2300-0030
KTAT	ak	1000	....	Fort Worth, Texas	
KTFI	ak	1000	....	Twin Falls, Idaho	
WKAQ	ae	1000	....	San Juan, P. R.	-Su. 0900-2115; †0600-1230; 1600-2130; W., 1430-1600
WXYZ	ak	1000	B	Detroit, Mich.	
XEAC	z	250	....	Tijuana, L. C.	
XEAI	z	100	....	Mexico City, D. F.	
XEKL	z	500	....	Leon, Guan.	
XELA	z	50	....	Saltillo, Coah.	
XEME	z	15	....	Merida, Yuc.	

1250 kcys. (239.9)

CMKC	ak	150	....	Santiago, Cuba	
KFOX	ae	1000	....	Long Beach, Calif.	
WCAL	ah	1000	2(2.5)	Northfield, Minn.	-Su. 0915-1030; 1600-1700; 2000-2100; †1045-1116; M., W., 2000-2100
WDSU	ak	1000	....	New Orleans, La.	-Su. 0800-2400; †0700-2400
WHBI	ak	1000	1(2.5)	Newark, N. J.	-Su. 0700-1000; 1230-1830; 2100-to 0700 Mon.; M. 1400-1700; 2000-2200
WLB	ak	1000	2	Minneapolis, Minn.	
WNEW	ae	1000	1(2.5)	Newark, N. J.	
WTCN	ak	1000	2 (5)	Minneapolis, Minn.	-Su. 1030-1600; 1700-2000; 2100-0100; †0700-1045; 2000-2400; M., Sa., 1015-1900; W., 1045-1900; Th., 1015-1045; 1330-2000
.....	z	1000	P	St. Louis, Mo.	
.....	z	250	DP	Winst.-Salem, N.C.	

1260 kcys. (238.0)

KGVO	ak	1000	C	Missoula, Mont.	-Su. 1100-0100; †0900-0100
KOIL	ak	1000	B(2.5)	Omaha, Nebr.	
KPAC	ak	500	D	Port Arthur, Texas	-*0600-1745
KRGV	ae	500	X	Weslaco, Texas	-*0800-2300
KUOA	ak	1000	DX	Siloam Spgs., Ark.	
KVOA	ak	500	X	Tucson, Ariz.	
WHIO	ak	1000	C (5)	Dayton, Ohio	-Su. 0100-0200; 0800-2400; †0600-0100
WNBX	ak	1000	....	Springfield, Vt.	-Su. 1030-1800; †0715-1330; Sa. 1500-2100; †1600-2200
WTOC	ae	1000	C	Savannah, Ga.	-Su. 0830-2400; †0700-2400

1270 kcys. (236.1)

CMHD	dk	250	....	Calbarien, Cuba	
KGCA	ak	100	2D	Decorah, Iowa	-*0930-1045; 1145-1230; 1330-1530
KOL	ae	1000	C(5)	Seattle, Wash.	
KVOR	ae	1000	C	Colorado Sp'gs, Colo.	-Su. 1100-0100; †0900-0100
KWLC	ak	100	2D	Decorah, Iowa	
WASH	ak	500	aN	Grand Rapids, Mich.	-Su. 0800-2400; †0700-2400
WFBR	ae	500	R (1)	Baltimore, Md.	-Su. 0900-2400; †0700-2400
WJDX	ae	1000	N(2.5)	Jackson, Miss.	
WOOD	ak	500	aN	Grand Rapids, Mich.	-Su. 0800-2400; †0700-2400
XEG	z	200	....	Ensenada, L. C.	
XFB	ak	250	....	Jalapa, Ver.	
YNLF	z	20	1275	Managua, Nic.	

1280 kcys. (234.2)

CMCU	aed	500	....	Havana, Cuba	-*0655-0100; Su. 0200-0500
KFBF	ae	1000	C (2.5)	Great Falls, Mont.	
WCAM	ae	500	1	Camden, N. J.	-Su. 1015-1230; 1500-1700; M., W., F., 1030-1130; Mon. thru Fri., 1400-1700; M., 2000-2400; F., 2100-2400
WCAP	ae	500	1	Asbury Park, N. J.	-Su. 0600-1015; 1230-1500; M., W., F, 1130-1400; Tu., Th., Sa., 1030-1400; daily exc. Mon., 2000-2400
WDOD	ak	1000	C(5)	Chattanooga, Tenn.	-*0730-0030
WIBA	ae	1000	N(5)	Madison, Wis.	
WORC	ak	500	C	Worcester, Mass.	-Su. 0845-2315; †0800-2400
WRR	ak	500	....	Dallas, Texas	-Su. 0800-2330; †0800-2400
WTNJ	ak	500	1	Trenton, N. J.	
XEMX	z	12	....	Mexico City, D. F.	

1290 kcys. (232.4)

KDYL	ak	1000	RX	Salt Lake City, Utah	-*0800-0300
KLCN	ak	100	D	Blytheville, Ark.	
KTRH	ak	1000	C(5)	Houston, Texas	
WEBC	ak	1000	N (5)	Duluth, Minn.	-Su. 0900-0100; †0800-0100

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WJAS	ak	1000	C(5)	Pittsburgh, Pa.	—Sa., Su., 0730-2400; †0730-0030
WNBZ	ak	100	D	Saranac Lake, N. Y.	—Su. 1000-1400; †0930-ss.
WNEL	ak	1000	(2.5)	San Juan, P. R.	—*0630-2330
1300 keys. (230.6) 					
KALE	ak	500	3C	Portland, Ore.	
KFAC	ak	1000	....	Los Angeles, Calif.	
KFH	ak	1000	C	Wichita, Kans.	
KFJR	ag	500	3	Portland, Ore.	—†1330-1730; M., 2000-2100; M., Th., Sa., 2200-2300; Tu., W., 2200-0200; F., 2200-0130
WBBR	ak	1000	1	Brooklyn, N. Y.	—Su., 0800-1100; 1500-2000; †0630-0700; 1000-1200; Tu., W., Th., F., 1800-2000
WEVD	ak	1000	1	New York, N. Y.	—Sa., 1000-1200; 1500-2100; Su. 0000-0300; †0000-0100; 0700-0900; †1500-1800; Daily exc. M., 2000-2100; 2200-2300
WFAB	ae	1000	1	New York, N. Y.	
WFBC	ak	1000	(5)N	Greenville, S. C.	
WHAZ	ae	500	1	Troy, N. Y.	—†1800-2400
WHBL	ae	250	....	Sheboygan, Wis.	
WIOD	ak	1000	N	Miami, Fla.	
1310 keys. (228.9) 					
CHCK	ak	50	....	Charlottetown, P.E.I.	
CJKL	ak	100	F	Kirkland Lake, Ont.	
CJLS	ak	100	....	Yarmouth, N. S.	
CKCV	ak	100	F	Quebec, Que.	—Su. 1200-2300; †0755-2330
KCRJ	ak	100	D	Jerome, Ariz.	
KFPL	dk	100	(.25)	Dublin, Texas	—Su. 0800-1000; †0700-1600; 1945-2245
KFXR	ak	150	(.2)	Oklahoma City, Okla.	—Su. 1030-2330; †0800-2400
KFYO	ak	100	(.25)	Lubbock, Texas	—Su. 0900-1500; 1700-1915; †0800-2215; W., 2215-2400
KGCX	ak	100	(.25)XZ	Wolf Pt., Mont.	
KGEZ	ae	100	....	Kalispell, Mont.	—Su. 1100-1800; †0900-2300
KGFW	ak	100	....	Kearney, Neb.	—Su. 0930-1045; 1200-1300; 2030-2130; †0700-1430; 1630-2200
KHUB	z	250	DP	Watsonville, Calif.	
KINY	ak	100	....	Juneau, Alaska	—Su. 1500-1800; 2100-2400; †1200-0200; Sa. 0200-0300
KIT	ak	100	(.25)	Yakima, Wash.	
KIUJ	ak	100	....	Santa Fe, N. Mex.	
KMED	ck	100	(.25)	Medford, Ore.	
KPDN	z	100	D	Pampa, Texas	
KRMD	ak	100	....	Shreveport, La.	
KROC	ak	100	....	Rochester, Minn.	—Su. 1000-0015; †0700-0015
KROY	z	100	DP	Sacramento, Calif.	
KRRY	z	100	DP	Sherman, Texas	
KTSM	ak	100	....	El Paso, Texas	—Su. 1000-1130; 1500-2030; †0830-0100
KVOL	ak	100	....	Lafayette, La.	—Su. 1200-1900; †0800-1500; 1700-2230
KXRO	ak	100	....	Aberdeen, Wash.	—Su. 1300-2200; †1000-0200
WAML	ak	100	....	Laurel, Miss.	—Su. 1300-2000; †0800-1100; 1200-1500; 1700-2000; Sa. 2000-2230
WBEO	ae	100	....	Marquette, Mich.	—Su. 1000-1430; †1030-1730
WBOW	ak	100	(.25)	Terre Haute, Ind.	—*0700-2400
WBRE	ak	100	....	Wilkes Barre, Pa.	
WCLS	ak	100	....	Joliet, Ill.	—Su. 1000-2130; †0800-2130; F., 2130-2330
WCMJ	ak	100	(.25)	Ashland, Ky.	—Su. 0900-2230; †0600-2330; Sa. 2330-2400
WDAH	ak	100	S	El Paso, Texas	—Su. 1130-1400; 2130-2230
WEBR	ak	100	B(.25)	Buffalo, N. Y.	—Su. 0000-0100; 0900-2400; †0700-2400
WEMP	ak	100	D	Milwaukee, Wis.	—Su. 0900-ss.; 0730-ss.
WEXL	ak	50	....	Royal Oak, Mich.	—*0800-2400; †0000-0400
WFBG	ae	100	3	Altoona, Pa.	—*1030-1630; †0700-0800; Su., 1815-2215; Tu., Th., F., 1930-2230; W., 2045-2215; Sa. 1815-2115
WFDF	ak	100	....	Flint, Mich.	—Su. 0900-2400; †0700-2400
WGH	ak	100	(.25)	Newport News, Va.	—Su. 0830-2230; †0700-2400
WHAT	ak	100	4	Philadelphia, Pa.	—Su. 0900-1015; 2000-2400; †1300-1400; M., W., F., 0900-1030; 1130-1200; M., F., 1700-1830; Tu., 0900-1200; 2030-2400; W., 1700-2400; Th. 0900-1100; Sa., 0900-1130; 1300-1600; 2100-2400
WJAC	ae	100	3	Johnstown, Pa.	—*0830-1030; Sa., Su., 1630-1815; Tu., Th., F., 1630-1930; M., 1630-2400; W., 1630-2045
WLAK	z	100	....	Lakeland, Fla.	
WLBC	ak	100	6(.25)	Muncie, Ind.	—Su. 0930-1900; †0700-1900; 2030-2400
WLNH	ak	100	....	Laconia, N. H.	
WMBO	ak	100	....	Auburn, N. Y.	
WMFF	ak	250	D	Plattsburg, N. Y.	
WNBH	ak	100	(.25)	New Bedford, Mass.	—Su. 0845-2315; †0730-2315; Sa. to 2400
WOL	ae	100	XZ	Washington, D. C.	—Su. 0800-2400; †0700-0100
WRAW	ak	100	....	Reading, Pa.	—Su. 1800-?; †0700-1300; †1630-2230; Sa. 1700-2300
WROL	ak	100	(.25)	Knoxville, Tenn.	
WSAJ	ae	100	....	Grove City, Pa.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WSGN	ak	100	(.25)	Birmingham, Ala.	
WSJS	ak	100	C	Winston-Salem, N.C.	—Su. 0830-2400; †0800-2400
WTAL	ak	100	....	Tallahassee, Fla.	—Su. 0900-2200; †0800-2200
WTEL	ce	100	4	Philadelphia, Pa.	—*0800-2400
WTJS	ak	100	(.25)	Jackson, Tenn.	
WTRC	ak	100	6(.25)	Elkhart, Ind.	—Su. 1200-2215; †0700-2030
XEAG	z	10	....	Cordoba, Ver.	
XECW	z	10	....	Mexico City, D. F.	
XEFW	ak	250	....	Tampico, Tams.	—Su. 1130-1600; †1100-2200
XETB	ak	125	....	Torreon, Coah.	
XEX	ak	125	....	Monterrey, N. L.	
XFA	z	5	....	Aguascalientes, Ags.	
.....	z	100	P	Cedar City, Utah	
.....	z	100	DP	Corsicana, Texas	
.....	z	100	DP	Jefferson City, Mo.	

1320 kcys. (227.1)

CMOX	ak	200	....	Havana, Cuba	
KGHF	am	500	....	Pueblo, Colo.	—Su. 1230-1830; 0930-2345
KGMB	ak	1000	C	Honolulu, T. H.	—Su. 0130-1700; †0130-1800; Sa., 1800-1830
KID	ae	500	(1)	Idaho Falls, Idaho	
KRNT	ak	500	C(1)	Des Moines, Iowa	—Su. 0830-0100; †0630-0100
WADC	ae	1000	C(5)	Akron, Ohio	—*0700-0100
WORK	ak	1000	....	York, Pa.	—Su. 1045-2030; †0800-2200
WSMB	ak	1000	N	New Orleans, La.	

1330 kcys. (225.4)

CMHK	z	250	....	Cruces, Cuba	
CMKW	z	....	....	Santiago, Cuba	
KGB	ag	1000	C(2.5)	San Diego, Calif.	—Su. 1100-0300; †1000-0400
KMO	ak	250	....	Tacoma, Wash.	—Su. 1300-2200; †0900-0300
KSCJ	ak	1000	C(2.5)	Sioux City, Iowa	—Su. 0900-0100; †0700-0100
WDRC	ae	1000	C(5)	Hartford, Conn.	—Su. 0930-2400; †0700-2400
WSAI	ak	1000	N(2.5)	Cincinnati, Ohio	—Su. 0800-0100; †0700-0100
WTAQ	ae	1000	....	Green Bay, Wis.	

1340 kcys. (223.7)

CMAB	z	....	....	Pinar del Rio, Cuba	
CMJL	z	75	....	Camaguey, Cuba	
HRN	z	50	....	Tegucigalpa, Hond.	—Su. 1000-1500; †0800-1845
KGDY	ak	250	D	Huron, S. D.	—Su. 1100-0100; †1000-0100
KGIR	ak	1000	N(2.5)	Butte, Mont.	
KGNO	ak	250	....	Dodge City, Kans.	—Su. 0900-2400; †0830-2400
WCOA	ak	500	C	Pensacola, Fla.	—Su. 0845-2400; †0800-2400
WFEA	ae	500	C(1)	Manchester, N. H.	—Su. 0830-0100; †0630-0100
WSPD	ae	1000	C(5)	Toledo, Ohio	
XEFE	z	250	....	Nuevo Laredo, Tams.	
XFD	z	350	....	Jalapa, Ver.	

1350 kcys. (222.1)

CMGA	z	250	....	Havana, Cuba	
KIDO	ak	1000	(.25)	Boise, Idaho	—Su. 1230-2000; †1000-2400
KWK	ak	1000	B(5)	St. Louis, Mo.	—Su. 0800-0100; †0630-0100
WAWZ	ae	500	1(1)	Zarephath, N. J.	—Daily exc. Tu., Sa., 0600-0900; Tu., Sa., 0745-0845; Su. 1100-1230; 1500-1630; 1900-2030; M., W., 1900-2030; Tu., Th., F., Sa., 1700-1830
WBNX	ae	1000	1	New York, N. Y.	—Su. 0900-1100; 1230-1500; 1630-1900; 2030-0015; †0900-1700; M., W., 1700-1900; 2030-0015; Tu., Th., F., Sa., 1830-0015

1360 kcys. (220.4)

CMJH	dk	50	....	Ciego de Avila, Cuba	
KCRC	ak	250	....	Enid, Okla.	—*0800-2300
KGER	ak	1000	....	Long Beach, Calif.	
WCSC	ak	500	(1)N	Charleston, S. C.	—Su. 0800-2400; †0700-2400
WFBL	ak	1000	C(5)	Syracuse, N. Y.	—Su. 0900-0100; †0700-0100
WGES	ae	500	1	Chicago, Ill.	—Su. 0900-1800; †0800-1300; 1630-2100
WQBC	ak	1000	D	Vicksburg, Miss.	
WSBT	ak	500	1	South Bend, Ind.	

1370 kcys. (218.8)

CKCW	ak	100	F	Moncton, N. B.	
CMGE	ak	150	....	Cardenas, Cuba	—Su. 0800-2200; †1000-1300; 1900-2230
HIZ	z	10	....	Trujillo, D. R.	
KAST	ak	100	D	Astoria, Ore.	—†1100-2030
KCMO	ak	100	....	Kansas City, Mo.	—Su. 0000-0500; 0700-0100; †0700-0200
KELD	z	100	....	El Dorado, Ark.	
KERN	ak	100	....	Bakersfield, Calif.	*1100-0300

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFGQ	ak	100	....	Boone, Iowa	—Su. 0830-1000; 1130-1230; 1530-1700; †0700-0830; 1030-1100; 1300-1400
KFJM	ak	100	(.25)XZ	Grand Forks, N. D.	
KFJZ	ae	100	(.25)	Fort Worth, Texas	—Su. 0800-2400; †0730-2400
KFRQ	ak	100	D	Longview, Texas	—Su. 0900-ss.; †0700-ss.
KGAR	ae	100	(.25)	Tucson, Ariz.	
KGFG	bk	100	....	Oklahoma City, Okla.	
KGFL	ak	100	4	Roswell, N. M.	
KGKL	ak	100	(.25)	San Angelo, Texas	
KICA	ak	100	4	Clovis, N. M.	—Su. 1300-1830; †0900-1830; 2130-2300
KIUP	ak	100	....	Durango, Colo.	—Su. 1300-1830; †1000-2300
KLUF	ak	100	(.25)	Galveston, Texas	—Su. 1000-1515; 1900-2130; †0900-1600; 1800-2400
KMAC	ak	100	5	San Antonio, Tex.	—*2300-0130; Su. 0800-1000; 1200-1330; 1500-1700; 1900-2100; †0800-0930; 1100-1200; 1300-1430; 1700-1900; 2000-2100
KOBH	ak	100	P	Rapid City, S. Dak.	—Su. 1100-2000; †0800-2400
KONO	ak	100	5	San Antonio, Tex.	—Su. 1000-1200; 1330-1500; 1700-1900; 2100-2300; †0700-0800; 0930-1100; 1200-1300; 1430-1700; 1900-2000; 2100-2300
KRE	ak	100	(.25)	Berkeley, Calif.	—24 hours daily
KRKO	ak	50	1	Everett, Wash.	
KSLM	ak	100	....	Salem, Ore.	—Su. 1200-2345; †1000-0100
KTEM	z	100	DP	Temple, Texas	
KUJ	ak	100	....	Walla Walla, Wash.	—Su. 1200-2400; †0930-0100
KVL	ak	100	1	Seattle, Wash.	—Su. 2000-0100; †1500-1930; 2200-0100
KWYO	ak	100	(.25)	Sheridan, Wyo.	—Su. 1000-1400; 1900-2330; †0900-2400
WABY	ak	100	B	Albany, N. Y.	—*0700-2400
WAGF	ak	250	D	Dothan, Ala.	—Su. 0900-1730; †0900-ss.
WATL	ak	100	....	Atlanta, Ga.	—Su. 0000-0100; †0700-0100
WBLK	z	100	DP	Clarksburg, W. Va.	
WBNY	ak	100	2(.25)	Buffalo, N. Y.	—Su. 1000-2400; †0730-0830; 1000-2400
WBTM	ak	100	(.25)	Danville, Va.	—Su. 1000-1300; †0700-1400; 1700-2200
WCBM	ae	100	(.25)	Baltimore, Md.	
WDAS	ag	100	(.25)	Philadelphia, Pa.	—*0800-2400
WDWS	ak	100	DP	Champaign, Ill.	—On air Dec. 1, 1936
WEOA	z	100	....	Evansville, Ind.	
WFOR	ak	100	....	Hattiesburg, Miss.	—Su. 1300-1900; †0800-2100
WGL	ae	100	C	Fort Wayne, Ind.	
WGRC	z	250	DP	New Albany, Ind.	
WHBQ	ak	100	....	Memphis, Tenn.	—Su. 0900-2230; †0800-2330
WHDF	ak	100	(.25)	Calumet, Mich.	—Su. 1030-1345; 1630-1800; †1145-1330; M., W., F., 1630-1845; Tu., Th., Sa., 1630-1830
WHLE	ak	100	P	Virginia, Minn.	
WIBM	ak	100	(.25)	Jackson, Mich.	—*0630-0030
WLLH	ak	100	(.25)	Lowell, Mass.	—Su. 0800-2400; †0730-2400
WMBR	ak	100	C(.25)	Jacksonville, Fla.	—Su. 0830-2400; †0730-2400
WMFD	ak	100	D	Wilmington, N. C.	
WMFO	ak	100	D	Decatur, Ala.	—Su. 1030-1830; †0800-1830
WMIN	ak	100	....	St. Paul, Minn.	—*0700-0100
WOC	ak	100	C(.25)	Davenport, Iowa	—Su. 1000-0100; †0700-0100
WPAY	ak	100	....	Portsmouth, Ohio	—Su. 0930-2030; †0700-2215
WPRA	z	100	(.25)P	Mayaguez, P. R.	
WQDM	ae	100	DXZ	St. Albans, Vt.	
WRAK	ak	100	(.25)	Williamsport, Pa.	
WRDO	ae	100	....	Augusta, Maine	—Su. 1000-1500; 1700-1930; †0800-1430; 1700-2315; Sa., 0800-2100
WRJN	ak	100	(.25)	Racine, Wis.	—Su. 0800-2400; †0845-2400
WSVS	ak	50	D2	Buffalo, N. Y.	
XEFZ	ak	100	....	Mexico City, D. F.	
XEI	ak	125	....	Morelia, Mich.	
XEZZ	z	100	....	San Luis Potosi, SLP.	
.....	z	100	DP	Wausau, Wis.	

1380 kcys. (217.3)

CMGR	z	150	....	Havana, Cuba	
KOH	ak	500	C	Reno, Nev.	—*1100-0300
KOV	ae	500	1C	Pittsburgh, Pa.	—Su. 0900-1930; †0700-2200
WALA	af	500	C(1)	Mobile, Ala.	—Su. 1000-2300; †0830-2400
WKBH	ae	1000	....	LaCrosse, Wis.	
WNBC	ak	250	D	New Britain, Conn.	—Su. 0800-ss.; †0700-ss.
WSMK	ak	200	1C	Dayton, Ohio	

1390 kcys. (215.7)

CJGX	ak	100	....	Yorkton, Sask.	—*0830-1530; 1800-0030
CMJC	z	150	....	Camaguey, Cuba	
HHH	ak	15	1395	San Ped. de Macoris	
KLRA	ae	1000	C(2.5)	Little Rock, Ark.	
KOY	ae	500	(1)	Phoenix, Ariz.	—Su. 1100-2415; †0900-2415
WHK	ae	1000	C(2.5)	Cleveland, Ohio	—Su. 0800-2400; †0700-2400

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1400 keys. (214.2)

CMGG	ad	150	....	Matanzas, Cuba	—M., 1000-2300; daily exc. Su., M., 0800-2300
CMKR	z	100	....	Santiago, Cuba	
KHBC	z	250	....	Hilo, T. H.	
KLO	ak	500	B	Ogden, Utah	—Su. 1100-0100; †1000-0100
KTUL	ak	500	C(1)	Tulsa, Okla.	
TGX	ak	250	...	Guatemala City, Gt.	
WARD	ak	500	2	Brooklyn, N. Y.	
WBBC	ae	500	2(1)	Brooklyn, N. Y.	
WGL	z	500	P	Brooklyn, N. Y.	—Su. 0900-0100; †0730-0100
WIRE	ak	500	R(1)	Indianapolis, Ind.	—Su. 1030-1200; 1500-1630; 2230-2400; M. 1330-1600; 2100-2230; Tu. 1130-1330; 1930-2100; W., 1600-1800; 2200-2400; Th. 0700-1130; 1800-1930; F. 1330-1600; 2100-2200; Sa. 1100-1330; 1800-1930
WLTH	ak	500	2	Brooklyn, N. Y.	

WVFW ak 500 2 Brooklyn, N. Y.

1410 keys. (212.6)

CKFC	ak	50	5	Vancouver, B. C.	
CKMO	ag	100	5F	Vancouver, B. C.	
CMCQ	ak	250	....	Havana, Cuba	
KGNC	ae	1000	(2.5)	Amarillo, Texas	—24 hours a day
WAAB	ak	500	....	Boston, Mass.	—*0900-0030
WBCM	ae	500	....	Bay City, Mich.	
WHIS	ak	500	(1)	Bluefield, W. Va.	
WROK	ak	500	....	Rockford, Ill.	—Su. 0930-2400; †0730-2400
WSFA	ak	500	C(1)	Montgomery, Ala.	—*0730-2400

1420 keys. (211.1)

CKGB	ak	100	F	Timmins, Ont.	—Su. 1100-1230; 1645-2330; †1100-1330; 1630-2330
KABC	ak	100	(.25)	San Antonio, Texas	—Su. 0900-2300; †0700-0015
KABR	ak	100	....	Aberdeen, S. Dak.	—Su. 1000-1800; †0800-2300
KALB	z	100	D	Alexandria, La.	—Su. 1000-1900; †0800-ss.
KBPS	ak	100	4	Portland, Ore.	—†1400-1530; 1800-2000
KCMC	ak	100	....	Texarkana, Ark.	
KEUB	z	100	P	Price, Utah	—Su. 1100-2400; †0930-2400
KFIZ	ak	100	....	Fond du Lac, Wis.	
KGFF	ak	100	(.25)	Shawnee, Okla.	—*0800-2200
KGGC	ak	100	....	San Francisco, Cal.	
KGIW	ak	100	1	Alamosa, Colo.	—*0930-1730; 2000-2230
KIDW	ak	100	1	Lamar, Colo.	—Su. 1300-1630; †0900-2000
KIUN	ak	100	....	Pecos, Texas	—Su. 0900-1400; 1700-2200; †0800-2200
KNET	z	100	D	Palestine, Texas	
KORE	ae	100	..	Eugene, Ore.	
KRBC	ak	100	..	Abilene, Tex.	—*0800-2200
KRLC	ak	100	XZ	Lewiston, Idaho	—Su. 1200-2400; †0930-0100
KRLH	z	100	D	Midland, Tex.	
KUMA	ak	100	....	Yuma, Ariz.	
KWBG	ak	100	....	Hutchinson, Kans.	
KXL	ak	100	4(.25)	Portland, Ore.	
WACO	ak	100	C	Waco, Texas	
WAGM	ae	100	....	Presque Isle, Maine	—Su. 0945-1400; †1100-1300; 1600-1900
WAPO	ak	100	DP	Chattanooga, Tenn.	—Su. 0800-1900; †0700-1900
WAZL	ak	100	2	Hazleton, Pa.	—Su. 1200-1930; †0900-1330; 1600-2200
WCBS	ak	100	....	Springfield, Ill.	—Su. 0900-2300; †0800-2300
WCHV	ak	100	3(.25)	Charlottesville, Va.	—Su. 1000-2000; †0700-2000; Sa. 2300-2400
WEED	ak	100	C(.25)	Rocky Mt., N. C.	
WEHS	ak	100	a	Cicero, Ill.	—Su. 1600-2000; †1600-1800
WELL	ak	100	....	Battle Creek, Mich.	—Su. 1045-2400; †0730-2400
WGPC	ak	100	....	Albany, Ga.	
WHDL	ak	100	D	Olean, N. Y.	—Su. 0800-1730; †0700-ss.
WHFC	ae	100	a	Cicero, Ill.	—Su. 0700-1600; 2000-0100; †0700-1330; 1800-2100; 2300-0100; Sa. 1800-0100
WILM	aj	100	2	Wilmington, Del.	
WJBO	ak	100	....	Baton Rouge, La.	
WJBR	z	100	P	Gastonia, N. C.	
WJMS	ak	100	....	Ironwood, Mich.	
WKBI	ak	100	a	Cicero, Ill.	—†1330-1600; †2100-2300
WLAP	ak	100	(.25)	Lexington, Ky.	
WLBK	ak	100	Z	Kansas City, Kan.	—Su. 1000-2300; †0755-2300
WLEU	ak	100	(.25)	Erie, Pa.	
WMAS	ak	100	C(.25)	Springfield, Mass.	—Su. 0800-2400; †0700-2400
WMBC	ae	100	(.25)	Detroit, Mich.	—Su. 0930-2400; †0730-2400
WMBH	ak	100	(.25)	Joplin, Mo.	
WMFJ	ak	100	....	Daytona Beach, Fla.	
WMSD	ak	100	....	Sheffield, Ala.	—Su. 1000-2200; †0800-2300

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WPAD	ak	100	(.25)	Paducah, Ky.	—*0700-2400
WPAR	ak	100	....	Parkersburg, W. Va.	
WPRP	z	100	P(.25)	Ponce, P. R.	
XEAZ	z	7	....	Guanajuato, Gto.	
XEFB	ak	100	....	Monterrey, N. L.	
.....	z	100	(.25)P	Watertown, N. Y.	

1430 kcys. (209.7)

CMJP	ak	75	....	Camaguey, Cuba	
KECA	ak	1000	(5) B	Los Angeles, Calif.	—*1000-0300
KGNF	ak	1000	D	North Platte, Neb.	†0800-1815
KSO	ak	500	B (1)	Des Moines, Iowa	
WBNS	ak	500	C (1)	Columbus, Ohio	—Su. 0700-2400; †0630-2400
WHEC	ak	500	C (1)	Rochester, N. Y.	—Su. 0800-2400; †0700-2400
WHP	ak	500	C (1)	Harrisburg, Pa.	—Su. 0900-2400; †0630-2400
WNBR	ae	500	(1)	Memphis, Tenn.	—Su. 1030-2230; †0830-2310
WOKO	ae	500	C (1)	Albany, N. Y.	—Su. 0845-0100; †0800-0100

1440 kcys. (208.2)

CMOA	z	150	....	Havana, Cuba	
HP50	z	25	....	Colon, Panama	
KDFN	ak	500	....	Casper, Wyo.	
KLS	ae	250	D	Oakland, Calif.	—Su. 1100-1930; †0900-2045
KXYZ	ak	1000	....	Houston, Texas	
TIFS	z	7.5	(1441)	Cartago, C. R.	
WBIG	ae	500	C (1)	Greensboro, N. C.	—Su. 0830-2330; †0630-2330
WCBA	aj	500	a	Allentown, Pa.	—Su. 1000-2300; †0730-2330
WMBD	ak	500	C (1)	Peoria, Ill.	—Su. 0900-0100; †0700-2400
WSAN	aj	500	a	Allentown, Pa.	—M., 1300-1700; Tu., Th., Sa., 1300-2330
XEFI	ae	250	....	Chihuahua, Chih.	

1450 kcys. (206.8)

CFCT	ae	75	(.05)	Victoria, B. C.	—*1045-1630; 2030-0015; Su. 0300-0500
CHGS	ae	50	F	Summerside, P.E.I.	—Su. 1000-1200; 1400-2200; †0630-0730; 0900-1330; 1500-2200
KIEM	ak	500	....	Eureka, Calif.	—Su. 1200-0030; †1000-0100
KTBS	ak	1000	N	Shreveport, La.	—Su. 0900-0100; †0730-0100
WGAR	ak	500	B (1)	Cleveland, Ohio	—Su. 0800-2400; †0700-2400
WHOM	ae	250	....	Jersey City, N. J.	—*0700-2400
WSAR	ae	1000	....	Fall River, Mass.	
WTFI	ak	500	Y	Athens, Ga.	
XEF	ak	100	....	Juarez, Chih.	—*0900-2400

1460 kcys. (205.4)

CMKF	z	50	....	Holguin, Cuba	
KSTP	ak	10000	N (25)	St. Paul, Minn.	—Su. 0900-0100; †0700-0200
WJSV	ak	10000	C	Washington, D. C.	

1470 kcys. (204.0)

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

1480 kcys. (202.6)

KOMA	ak	5000	C	Oklahoma City, Okla.	—Su. 0900-0100; †0730-0100
WKBW	ae	5000	C	Buffalo, N. Y.	—Su. 0930-2400; †0800-0100
.....	z	5000	P	Hammond, Ind.	

1490 kcys. (201.2)

KFBK	ak	5000	C	Sacramento, Calif.	—Su. 1030-0300; †1000-0300
WCKY	ae	5000	N	Covington, Ky.	—Su. 0800-2400; †0700-2400

1500 kcys. (199.9)

CJIC	ak	100	...	Sault Ste. Marie, Ont.	—Su. 1100-1500; †1000-2200
CMCX	z	150	....	Havana, Cuba	
KBIX	z	100	....	Muskogee, Okla.	—Su. 1045-1900; †0800-2300
KBST	z	100	P	Big Spring, Tex.	
KDB	ak	100	C	Santa Barbara, Cal.	
KGFI	ak	100	(.25)	Corpus Christi, Tex.	
KGFK	ak	100	Y	Moorhead, Minn.	
KGKB	ak	100	....	Tyler, Texas	
KGKY	ak	100	(.25)	Scottsbluff, Neb.	—Su. 1200-0200; †0830-1630; 1900-2300

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KNEL	ak	100	D	Brady, Texas	—Su. 0900-1800; †0800-1800
KNOW	ak	100	C	Austin, Texas	
KOTN	ak	100	D	Pine Bluff, Ark.	—*0800-ss.
KOVC	ak	100	....	Valley City, N. Dak.	—*0800-2200
KPLC	ak	100	....	Lake Charles, La.	
KPLT	z	100	DP	Paris, Texas	
KPO	ak	100	(.25)	Wenatchee, Wash.	
KRNR	ak	100	D	Roseburg, Ore.	—Daytime only.
KTEP	z	100	P	El Paso, Texas	
KUTA	z	100	P	Salt Lake City, Utah	
KVOE	ak	100	....	Santa Ana, Calif.	—Su. 1400-1545; 2200-0200; †1200-0200
KXO	ak	100	....	El Centro, Calif.	—Su. 1200-1400; †1100-1700; 1800-2400
WGNW	ak	100	I (.25)	Brooklyn, N. Y.	—Su. 0900-1100; †1400-1800; Sa. 1500-2100; Su. 2300-2400; M., F., 2000-2200; W., 2200-2400
WDNC	ae	100	C	Durham, N. C.	—*0730-0030
WGAL	ae	100	(.25)	Lancaster, Pa.	
WHBB	ak	100	D	Selma, Ala.	—Su. 0800-ss.; †0730-ss.
WHEF	ak	100	(.25)	Kosciusko, Miss.	—Su. 0900-ss.; †0730-1500; 1700-2200
WJBK	ae	100	(.25)	Detroit, Mich.	—24 hours daily
WKBB	ak	100	(.25)	E. Dubuque, Ill.	
WKBV	ak	100	(.25)	Richmond, Ind.	
WKBZ	ak	100	(.25)	Muskegon, Mich.	—Su. 0730-2200; †0700-2200
WKEU	ak	100	D	Griffin, Ga.	
WMBQ	ae	100	I	Brooklyn, N. Y.	
WMEX	ak	100	(.25)	Boston, Mass.	
WNBf	ae	100	C	Binghamton, N. Y.	
WNLC	ak	100	D	New London, Conn.	
WOPI	ae	100	....	Bristol, Tenn.	—Su. 1030-2130; †0700-2300
WRDW	ak	100	....	Augusta, Ga.	—Su. 0900-2100; †0700-2100
WRGA	ak	100	(.25)	Rome, Ga.	—Su. 1000-2300; †0800-2300
WSYB	ak	100	....	Rutland, Vt.	—Su. 1000-1100; †1000-1300; 1700-2100
WTMV	ak	100	....	East St. Louis, Ill.	
WWRL	ak	100	I (.25)	Woodside, N. Y.	—*0800-0900; 1100-1400; 2000-2400
WWSW	ae	100	(.25)	Pittsburgh, Pa.	
.....	z	100	P	Salina, Kans.	

1510 keys. (198.6)

CFRC	ak	100	F	Kingston, Ont.	—Su. 0600-2300; †1200-1300; 1730-2300
CKCR	ak	100	....	Waterloo, Ont.	—Su. 1000-1400; 1700-2200; †0800-2300

1530 keys. (196.0)

W1XBS	ak	1000	....	Waterbury, Conn.	—Su. 0900-2400; †0800-2400
W9XBY	ak	1000	....	Kansas City, Mo.	—Su. 0900-0130; †0800-0330

1550 keys. (193.4)

W2XR	ak	1000	....	Long Isl. City, N. Y.	—Su. 1700-2100; †1000-1200; 1700-2115
W6XAI	ak	1000	....	Bakersfield, Calif.	—Su. 1100-0200; †1000-0200

KEY TO SYMBOLS

As shown in the Index by
Frequencies and Dial Numbers

Frequency is given in kilocycles; wave lengths in meters. Night power is shown in watts in third column. Daytime power is shown in parenthesis in fourth column in kilowatts, thus (.25) indicating 250 watts. Some stations outside the United States use a "split frequency." Their exact frequency is shown in fourth column.

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

Time on the Air

All times are shown in Eastern Standard. * Daily; † Daily except Sunday; ‡ Daily except Saturday and Sunday. Su. Sunday; M. Monday; Tu. Tuesday; W. Wednesday; Th. Thursday; F. Friday; Sa. Saturday. The hours are given according to the International or 24-hour clock. To convert to ordinary time, subtract 12 where the time shown is greater than that figure. Thus, 1700 is 5:00 p.m.; 1200 is noon; midnight is either 0000 or 2400. The letters ss indicate sunset.

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

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

ALABAMA		CALIFORNIA		Stockton		Gainesville	
Birmingham		Bakersfield		KGDM 1100	1000	WRUF 830	5000
WAPI 1140	5000 N	KERN 1370	100 C	KWG 1200	100 C	Jacksonville	
WBRC 930	1000 C	W6XAI 1550	1000	Watsonville		WJAX 900	1000 N
WSGN 1310	100	Berkeley		KHUB 1310	250	WMBR 1370	100 C
Decatur		KRE 1370	100	COLORADO			
WMFO 1370	100	Beverly Hills		Alamosa		Miami	
Dothan		KMPC 710	500	KGTV 1420	100	WIOD 1300	1000 N
WAGF 1370	250	Chico		KVOR 1270	1000 C	WQAM 560	1000 C
Gadsden		KHSL 950	250	Colorado Springs		Orlando	
WJBY 1210	100	Del Monte		Denver		WDBO 580	1000 C
Huntsville		KDON 1210	100	KFEL 920	500	Pensacola	
..... 1200	100	El Centro		KLZ 560	1000 C	WCOA 1340	500 C
Mobile		KXO 1500	100	KOA 830	5000 N	St. Augustine	
WALA 1380	500 C	Eureka		KPOF 880	500	WFOY 1210	100
Montgomery		KIEM 1450	500	KVOD 920	500	St. Petersburg	
WSFA 1410	500 C	Fresno		Durango		WSUN 620	1000 N
Selma		KMJ 580	500 C	KIUP 1370	100	Tallahassee	
WHBB 1500	100	Glendale		Grand Junction		WTAL 1310	100
Sheffield		KIEV 850	250	KFXJ 1200	100	Tampa	
WMSD 1420	100	Hollywood		Greeley		WDAA 1220	1000 C
Tuscaloosa		KFWB 950	1000	KFKA 880	500	West Palm Beach	
WJRD 1200	100	KMTR 570	1000	Lamar		WJNO 1200	100
		KNX 1050	50000	KIDW 1420	100	GEORGIA	
ALASKA		Long Beach		KIDW 1420	100	Albany	
Anchorage		KFOX 1250	1000	KPueblo 1320	500	WGPC 1420	100
KFQD 780	250	KGER 1360	1000	KGHF 1320	500	Athens	
Juneau		Los Angeles		Sterling		WTFI 1450	500
KINY 1310	100	KECA 1430	1000 B	KGEK 1200	100	Atlanta	
Ketchikan		KEHE 780	500	CONNECTICUT			
KGBU 900	500	KFAC 1300	1000	Bridgeport		WATL 1370	100
		KFI 640	50000 R	WICC 600	500 C	WGST 890	1000 C
		KFSG 1120	500	Hartford		WSB 740	50000 N
		KFVD 1000	250	WDRG 1330	1000 C	Augusta	
		KGFJ 1200	100	WTIC 1040	50000 R	WRDW 1500	100
		KHJ 900	1000 C	WTHT 1200	100	Columbus	
		KRDK 1120	500	New Britain		WRBL 1200	100
		Merced		WNBC 1380	250	Griffin	
		KYOS 1040	250	New Haven		WKEU 1500	100
		Modesto		WELI 900	500	Macon	
		KTRB 740	250	New London		WMAZ 1180	1000
		Oakland		WNLC 1500	100	Rome	
		KLS 1440	250	Waterbury		WRGA 1500	100
		KLX 880	1000	WATR 1190	100	Savannah	
		KROW 930	1000	WIXBS 1530	1000	WTOC 1260	1000 C
		Pasadena		DELAWARE			
		KPPC 1210	100	Wilmington		Hilo	
		Redding		WDEL 1120	250	KHBC 1400	250
		KVCV 1200	100	WILM 1420	100	Honolulu	
		Sacramento		DISTRICT OF COLUMBIA			
		KFBK 1490	5000 C	Washington		Boise	
		KROY 1310	100	WJWS 1460	10000 C	KIDO 1350	1000
		San Bernardino		WMAL 630	250 B	Idaho Falls	
		KFXM 1210	1000	WOL 1310	100	KID 1320	500
		San Diego		WRC 950	500 R	Lewiston	
		KFSD 600	1000 B	FLORIDA			
		KGB 1330	1000 C	Clearwater		KRLC 1420	100
		San Francisco		WFLA 620	1000 N	Nampa	
		KFRC 610	1000 C	Daytona Beach		KFXD 1200	100
		KGGC 1420	100	WMFJ 1420	100	Pocatello	
		KGO 790	7500 B	HAWAII			
		KJBS 1070	500	Wilmington		Hilo	
		KPO 680	50000 R	WDEL 1120	250	KHBC 1400	250
		KSFO 560	1000	WILM 1420	100	Honolulu	
		KYA 1230	1000 N	DISTRICT OF COLUMBIA			
		San Jose		Washington		KGMB 1320	1000 C
		KQW 1010	1000	WJWS 1460	10000 C	KGU 750	2500 N
		San Luis Obispo		WMAL 630	250 B	IDAHO	
		KVEC 1200	250	WOL 1310	100	Boise	
		Santa Ana		WRC 950	500 R	KIDO 1350	1000
		KVOE 1500	100	FLORIDA			
		Santa Barbara		Clearwater		Idaho Falls	
		KDB 1500	100 C	WFLA 620	1000 N	KID 1320	500
				Daytona Beach		Lewiston	
				WMFJ 1420	100	KRLC 1420	100
				HAWAII			
				Wilmington		Nampa	
				WDEL 1120	250	KFXD 1200	100
				WILM 1420	100	Pocatello	
				DISTRICT OF COLUMBIA			
				Washington		KSEI 900	250
				WJWS 1460	10000 C	Twin Falls	
				WMAL 630	250 B	KTFI 1240	1000
				WOL 1310	100		
				WRC 950	500 R		
				FLORIDA			
				Clearwater			
				WFLA 620	1000 N		
				Daytona Beach			
				WMFJ 1420	100		

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

ILLINOIS	Muncie	Covington	Fall River
Bloomington	WLBC 1310 100	WCKY 1490 5000 N	WSAR 1450 1000
WJBC 1200 100	New Albany	Lexington	Lowell
Carthage	WGRC 1370 250	WLAP 1420 100	WLLH 1370 100
WCAZ 1070 100	Richmond	Louisville	New Bedford
Champaign	WKBY 1500 100	WAVE 940 1000 N	WNBH 1310 100
WDWS 1370 100	South Bend	WHAS 820 50000 C	Springfield
Chicago	WFAM 1200 100	Middlesboro	WBZA 990 1000 B
WAAF 920 1000	WSBT 1360 500 C	WLMU 1210 100	WMAS 1420 100 C
WBBM 770 50000 C	Terre Haute	Paducah	WSPR 1140 500
WCFL 970 5000 B	WBOW 1310 100	WPAD 1420 100	Worcester
WCRW 1210 100	West Lafayette		WORC 1280 500 C
WEDC 1210 100	WBAA 890 500		WTAG 580 500 R
WENR 870 50000 N		LOUISIANA	MICHIGAN
WGES 1360 500	IOWA	Alexandria	Battle Creek
WGN 720 50000	Ames	KALB 1420 100	WELL 1420 100
WJJD 1130 20000	WOI 640 5000	Baton Rouge	Bay City
WLS 870 50000 N	Boone	WJBO 1420 100	WBCM 1410 500
WMAQ 670 50000 N	KFGQ 1370 100	Lafayette	Calumet
WMBI 1080 5000	Cedar Rapids	KVLF 1310 100	WHDF 1370 100
WSBC 1210 100	WMT 600 1000 B	Lake Charles	Detroit
Cicero	Davenport	KPLC 1500 100	WJBK 1500 100
WEHS 1420 100	WOC 1370 100 C	Monroe	WJR 750 50000 C
WHFC 1420 100	Decorah	KMLB 1200 100	WMBC 1420 100
WKBI 1420 100	KGCA 1270 100	New Orleans	WWJ 920 1000 R
Decatur	KWLC 1270 100	WBNO 1200 100	WXYZ 1240 1000 B
WJBL 1200 100	Des Moines	WDSU 1250 1000	East Lansing
East Dubuque	KRNT 1320 500 C	WJBW 1200 100	WKAR 850 1000
WKBB 1500 100	KSO 1430 500 B	WSMB 1320 1000 N	Flint
East St. Louis	WHO 1000 50000 R	WWL 850 10000 C	WFDF 1310 100
WTMV 1500 100	Iowa City	Shreveport	Grand Rapids
Harrisburg	WSUI 880 500	KRMD 1310 100	WASH 1270 500 N
WEBQ 1210 100	Marshalltown	KTBS 1450 1000 N	WOOD 1270 500 N
Joliet	KFJB 1200 100	KWKH 1100 1000 C	Ironwood
WCLS 1310 100	Mason City		WJMS 1420 100
Peoria	KGLO 1210 100	MAINE	Jackson
WMBD 1440 500 C	Shenandoah	Augusta	WIBM 1370 100
Quincy	KFNF 890 500	WRDO 1370 100	Kalamazoo
WTAD 900 500	KMA 930 1000	Bangor	WKZO 590 1000 B
Rockford	Sioux City	WABI 1200 100	Lansing
WROK 1410 500	KSCJ 1330 1000 C	WLBZ 620 500 C	WJIM 1210 100
Rock Island	KANSAS	Portland	Lapeer
WHBF 1210 100	Abilene	WCSH 940 1000 R	WMPC 1200 100
Springfield	KFBI 1050 5000	WGAN 640 500	Marquette
WCBS 1420 100	Coffeyville	Presque Isle	WBEO 1310 100
WTAX 1210 100	KGGF 1010 1000	WAGM 1420 100	Muskegon
Tuscola	Dodge City		WKBW 1500 100
WDZ 1020 250	KGNO 1340 250	MARYLAND	Royal Oak
Urbana	Garden City	Baltimore	WEXL 1310 50
WILL 580 250	KIUL 1210 100	WBAL 760 2500 B	
Waukegan	Hutchinson	WBAL 1060 10000 B	MINNESOTA
WGBD 1080 5000	KWBG 1420 100	WCAO 600 500 C	Duluth
	Kansas City	WCBM 1370 100	KDAL
	WLB 1420 100	WFBR 1270 500 R	WBEC 1290 1000 N
INDIANA	Lawrence	Cumberland	Fergus Falls
Anderson	KFKU 1220 1000	WTBO 800 250	KGDE 1200 100
WBHU 1210 100	WREN 1220 1000 B	Frederick	Hibbing
Elkhart	Manhattan	WFMD 900 500	WMFG 1210 100
WTRC 1310 100	KSAC 580 500	Hagerstown	Minneapolis
Evansville	Pittsburg	WJEJ 1210 100	WCCO 810 50000 C
WEOA 1370 100	..... 790 1000		WDGY 1180 1000
WGBF 630 500	Salina	MASSACHUSETTS	WLB 1250 1000
Fort Wayne	..... 1500 100	Boston	WTCN 1250 1000
WGL 1370 100 C	Topeka	WAAB 1410 500	Moorhead
WOWO 1160 10000 C	WIBW 580 1000 C	WBZ 990 50000 C	KGFK 1500 100
Gary	Wichita	WCOP 1120 500	Northfield
WIND 560 1000	KANS 1210 100	WEEI 590 1000 C	WCAL 1250 1000
Hammond	KFH 1300 1000 C	WHDH 830 1000	Rochester
WWAE 1200 100	KENTUCKY	WMEX 1500 100	KROC 1310 100
..... 1480 5000	Ashland	WNAC 1230 1000 R	St. Paul
Indianapolis	WCMI 1310 100	WORL 920 500	KSTP 1460 10000 N
WFBM 1230 1000 C			WMIN 1370 100
WIRE 1400 500 R			Virginia
			WHLB 1370 100

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Enid KCRC 1360 250</p> <p>Muskogee KBIX 1500 100</p> <p>Norman WNAD 1010 1000</p> <p>Oklahoma KFXR 1310 150 KGFJ 1370 100 KOMA 1480 5000 C WKY 900 1000 N</p> <p>Ponca City WBBZ 1200 100</p> <p>Shawnee KGFJ 1420 100</p> <p>Tulsa KTUL 1400 500 C KVOO 1140 25000 N</p> <hr/> <p style="text-align: center;">OREGON</p> <hr/> <p>Astoria KAST 1370 100</p> <p>Corvallis KOAC 550 1000</p> <p>Eugene KORE 1420 100</p> <p>Klamath Falls KFJI 1210 100</p> <p>Marshfield KOOS 1200 250</p> <p>Medford KMED 1310 100</p> <p>Portland KALE 1300 500 C KBPS 1420 100 KEX 1180 5000 N KFJR 1300 500 KGW 620 1000 R KOIN 940 1000 C KWJJ 1040 500 KXL 1420 100</p> <p>Roseburg KRNR 1500 100</p> <p>Salem KSLM 1370 100</p> <hr/> <p style="text-align: center;">PENNSYLVANIA</p> <hr/> <p>Allentown WCBA 1440 500 WSAN 1440 500</p> <p>Altoona WFBG 1310 100</p> <p>Easton WEST 1200 100</p> <p>Erie WLEU 1420 100</p> <p>Glenside WIBG 970 100</p> <p>Greensburg WHJB 620 250 C</p> <p>Grove City WSAJ 1310 100</p> <p>Harrisburg WHP 1430 500 C WKBO 1200 100</p> <p>Hazleton WAZL 1420 100</p> <p>Johnstown WJAC 1310 100</p> <p>Lancaster WGAL 1500 100</p>	<p>Philadelphia KYW 1020 10000 R WCAU 1170 50000 C WDAS 1370 100 WFIL 560 1000 B WHAT 1310 100 WIP 610 1000 WPEN 920 250 WRAX 920 250 WTEL 1310 100</p> <p>Pittsburgh KDKA 980 50000 B KQV 1380 500 C WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100</p> <p>Reading WEEU 830 1000 WRAW 1310 100</p> <p>Seranton WGBI 880 500 WQAN 880 250</p> <p>Sunbury WKOK 1210 100</p> <p>Wilkes-Barre WBAX 1210 100 WBRE 1310 100</p> <p>Williamsport WRAC 1370 100</p> <p>York WORK 1320 1000</p> <hr/> <p style="text-align: center;">PUERTO RICO</p> <hr/> <p>Mayaguez WPRa 1370 100</p> <p>Ponce WPRP 1420 100</p> <p>San Juan WKAQ 1240 1000 WNEL 1290 1000</p> <hr/> <p style="text-align: center;">RHODE ISLAND</p> <hr/> <p>Newport WNRI 1200 100</p> <p>Providence WEAN 780 500 C WJAR 890 1000 R WPRO 630 500</p> <hr/> <p style="text-align: center;">SOUTH CAROLINA</p> <hr/> <p>Anderson WAIM 1200 100</p> <p>Charleston WCSC 1360 500 N</p> <p>Columbia WIS 560 1000 N</p> <p>Greenville WFBC 1300 1000 N</p> <p>Spartanburg WSPA 920 1000</p> <hr/> <p style="text-align: center;">SOUTH DAKOTA</p> <hr/> <p>Aberdeen KABR 1420 100</p> <p>Brookings KF DY 780 1000</p>	<p>Huron KGDY 1340 250</p> <p>Pierre KGF X 630 200</p> <p>Rapid City KOBH 1370 100 WCAT 1200 100</p> <p>Sioux Falls KSOO 1110 2500 1200 100</p> <p>Vermillion KUSD 890 500</p> <p>Watertown KW TN 1210 100</p> <p>Yankton WNAX 570 1000 C</p> <hr/> <p style="text-align: center;">TENNESSEE</p> <hr/> <p>Bristol WOPI 1500 100</p> <p>Chattanooga WAPO 1420 100 WDOD 1280 1000 C</p> <p>Jackson WTJS 1310 100</p> <p>Knoxville WNOX 1010 1000 C WROL 1310 100</p> <p>Memphis WHBQ 1370 100 WMC 780 1000 N WNR 1430 500 WREC 600 1000 C</p> <p>Nashville WLAC 1470 5000 C WSM 650 50000 N</p> <p>Springfield WSIX 1210 100</p> <hr/> <p style="text-align: center;">TEXAS</p> <hr/> <p>Abilene KRBC 1420 100</p> <p>Amarillo KGNC 1410 1000</p> <p>Austin KNOW 1500 100 C</p> <p>Beaumont KFDM 560 500</p> <p>Big Spring KBST 1500 100</p> <p>Brady KNEL 1500 100</p> <p>College Station WTAW 1120 500</p> <p>Corpus Christi KGF I 1500 100</p> <p>Corsicana 1310 100</p> <p>Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500</p> <p>Dublin KFPL 1310 100</p> <p>El Paso KTEP 1500 100 KTSM 1310 100 WDAH 1310 100</p> <p>Fort Worth KFJZ 1370 100 KTAT 1240 1000 WBAP 800 50000 N</p> <p>Galveston KLVF 1370 100</p>	<p>Houston KPRC 920 1000 N KTRH 1290 1000 C KXYZ 1440 1000</p> <p>Kilgore KOCA 1210 100</p> <p>Longview KFRO 1370 100</p> <p>Lubbock KFYO 1310 100</p> <p>Midland KRLH 1420 100</p> <p>Palestine KNET 1420 100</p> <p>Pampa KPDN 1310 100</p> <p>Paris KPLT 1500 100</p> <p>Pecos KIUN 1420 100</p> <p>Port Arthur KPAC 1260 500</p> <p>San Angelo KGKL 1370 100</p> <p>San Antonio KABC 1420 100 KMAC 1370 100 KONO 1370 100 KTSA 550 1000 C WQAI 1190 50000 N</p> <p>Sherman KRRV 1310 100</p> <p>Temple KTEM 1370 100</p> <p>Tyler KQKB 1500 100</p> <p>Waco WACO 1420 100 C</p> <p>Weslaco KRGV 1260 500</p> <p>Wichita Falls KGKO 570 250 C</p> <hr/> <p style="text-align: center;">UTAH</p> <hr/> <p>Cedar City 1310 100</p> <p>Ogden KLO 1400 500 B</p> <p>Price KEUB 1420 100</p> <p>Salt Lake City KDYL 1290 1000 R KSL 1130 50000 C KUTA 1500 100</p> <hr/> <p style="text-align: center;">VERMONT</p> <hr/> <p>Burlington WGAX 1200 100</p> <p>Rutland WSYB 1500 100</p> <p>St. Albans WQDM 1370 100</p> <p>Springfield WNBX 1260 1000</p> <p>Waterbury WDEV 550 500</p> <hr/> <p style="text-align: center;">VIRGINIA</p> <hr/> <p>Arlington NAA 690 1000</p> <p>Charlottesville WCHV 1420 100</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Danville	WBTV	1370	100
Harrisonburg	WSVA	550	500
Lynchburg	WLVA	1200	100
Newport News	WGHI	1310	100
Norfolk	WTAR	780	500 N
Petersburg	WPHR	880	500
Richmond	WBBL	1210	100
WMBG	1210	100 C	
WRVA	1110	5000 N	
Roanoke	WDBJ	930	1000 C

WASHINGTON

Aberdeen	KXRO	1310	100
Bellingham	KVOS	1200	100
Everett	KRKO	1370	50
Olympia	KGY	1210	100
Pullman	KWSC	1220	1000
Seattle	KIRO	710	1000
KJR	970	5000 B	
KOL	1270	1000 C	
KOMO	920	1000 R	
KRSC	1120	100	
KTW	1220	1000	
KVL	1370	100	
KXA	760	250	

Spokane	KFIO	1120	100
KFPY	890	1000 C	
KGA	1470	5000 B	
KHQ	590	1000 R	
Tacoma	KMO	1330	250
KVI	570	1000 C	
Walla Walla	KUJ	1370	100
Wenatchee	KPO	1500	100
Yakima	KIT	1310	100

WEST VIRGINIA

Bluefield	WHIS	1410	500
Charleston	WCHS	580	500
Clarksburg	WBLC	1370	100
Fairmont	WMMN	890	500 C
Huntington	WSAZ	1190	1000
Parkersburg	WPAR	1420	100
Wheeling	WWVA	1160	5000 C

WISCONSIN

Eau Claire	WEAU	1050	250
Fond du Lac	KFIZ	1420	100
Green Bay	WBLY	1200	100
WTAQ	1330	1000	
Janesville	WCLO	1200	100
LaCrosse	WKBH	1380	1000
Madison	WHA	940	5000
WIBA	1280	1000 N	
Manitowoc	WOMT	1210	100
Milwaukee	WEMP	1310	100
WISN	1120	250 C	
WTMJ	620	1000 N	
Peynette	WIBU	1210	100
Racine	WRJN	1370	100
Sheboygan	WBHL	1300	250
Stevens Point	WLBL	900	2500
Wausau	.....	1370	100

WYOMING

Casper	KDFN	1440	500
Sheridan	KWYO	1370	100

CANADA

ALBERTA

Calgary	CFAC	930	100 F
CFCN	1030	10000	
CJGJ	690	100 F	
Edmonton	CFRN	960	100 F
CJCA	730	1000 F	
CKUA	580	500	
Lethridge	CJOC	950	100 F

BRITISH COLUMBIA

Chilliwack	CHWK	780	100 F
Kamloops	CFJC	880	100 F
Kelowna	CKOV	630	100 F
Prince Rupert	CFPR	580	50
Trail	CJAT	910	1000 F
Vancouver	CJOR	600	500
CKGD	1010	100	
CKFC	1410	50	
CKMO	1410	100 F	
CKWX	1010	100 F	
CRCV	1100	1000 F	
Victoria	CFCT	1450	75

MANITOBA

Brandon	CKX	1120	100 F
Winnipeg	CJRC	630	1000 F
CKY	910	15000 F	

NEW BRUNSWICK

Fredericton	GFNB	550	500 F
Moncton	CKCW	1370	100 F
St. John	CHSJ	1120	500 F

N. W. TERRITORY

Aklavik	CJCU	1210	50
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NOVA SCOTIA

Glace Bay	VAS	685	2000
Halifax	CHNS	930	1000 F
Sydney	CJCB	1240	1000 F
Wolfville	CKIC	1010	50
Yarmouth	CJLS	1310	100

ONTARIO

Brantford	CKPC	930	100 F
Chatham	CFCO	630	100 F
Cobalt	CKMC	1210	50
Fort William	GKPR	730	100 F
Hamilton	CHML	1010	100 F
CKOC	1120	500 F	
Kingston	CFRC	1510	100 F
Kirkland Lake	CJKL	1310	100 F
London	GFPL	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 F

Toronto	CFRB	690	10000 C
CKGL	580	100 F	
CRCT	840	5000 N	
Waterloo	CKCR	1510	100
Windsor	CKLW	1030	5000
CRCW	600	500 F	
Wingham	GKNX	1200	50

PRINCE EDWARD ISLAND

Charlottetown	CFGY	630	1000 F
CHCK	1310	50	
Summerside	CHGS	1450	50 F

QUEBEC

Chicoutimi	CRCS	950	100 F
Hull	CKCH	1210	100 F
Montmagny	VE9EK	1185	10
Montreal	GCFE	600	400 N
CHLP	1120	100 F	
CKAC	730	5000 C	
CRCM	910	5000 F	
New Carlisle	CHNC	960	1000 F
Quebec	CHRC	580	100
CKCV	1310	100 F	
CRCK	1050	1000 F	

SASKATCHEWAN

Moose Jaw	CHAB	1200	100 F
CJRM	540	1000 F	
Prince Albert	CKBI	1210	100 F
Regina	CKCK	1010	500 F
Saskatoon	CFQC	840	1000 F
Yorkton	CJGX	1390	100

NEWFOUNDLAND

St. John's	VOAC	1065	40
VOAS	940	100	
VOGY	840	400	
VONF	1195	500	
VOWR	681	500	

MIQUELON

St. Pierre	FQN	609	250
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

CENTRAL AMERICA

COSTA RICA

Cartago		
TIFS	1441	7.5
TIGA	1014	30
San Jose		
TIEP	850	500
TIFA	1050	75
TIGH	1000	500
TIGPH	650	1000
TIRH	930	50
TIVCA	1225	.....
TIX	800	.....

GUATEMALA

Guatemala City		
TGW	1210	10000
TGX	1400	250

HONDURAS

Tegucigalpa		
HRN	1340	100

NICARAGUA

Managua		
YNLF	1275	20
YNOP	1230	100
YNVA	950	30

PANAMA

Colon		
HP50	1440	25

EL SALVADOR

San Salvador		
RDN	680	500

MEXICO

AGUASCALIENTES

Aguascalientes		
XFA	1310	5
XFC	810	350

CHIHUAHUA

Chihuahua		
XEFI	1440	250
Hidalgo		
XEAT	1210	300
Juarez		
XEFV	1210	100
XEFI	1450	100
XEJ	1020	1000
XEP	1160	500

COAHUILA

Piedras Negras		
XELO	1110	10000
XEPN	730	100000

Saltillo		
XEAS	1160	100
XELA	1240	50
XEOX	640	500
Torreon		
XETB	1310	125
Villa Acuna		
XERA	840	350000

D. F.

Mexico City		
XEAI	1240	100
XEB	1030	10000
XEBZ	820	100
XECW	1310	10
XEFA	1180	500
XEFO	940	5000
XEFZ	1370	100
XEK	990	100
XEL	1100	250
XEMX	1280	12
XEN	710	1000
XEW	890	50000
XEWZ	1150	100
XEXM	610	.....
XEYZ	780	10000
XFX	610	1000

DURANGO

Durango		
XEE	1210	50

GUANAJUATO

Guanajuato		
XEAX	1420	7
Leon		
XEKL	1240	500

JALISCO

Guadalajara		
XEA	1060	500
XED	1160	2500

LOWER CALIFORNIA

Agua Caliente		
XEBC	730	500
Coronado Island		
XEMZ	820	.....
Ensenada		
XEG	1270	200
Mexicali		
XEAA	920	200
XEAO	560	250
Rosarito		
XEAQ	1090	1000
Tijuana		
XEAC	1240	250
XEC	1160	30
XEFL	1150	250
XEMO	860	5000
XEOK	760	250

MICHOACAN

Morelia		
XEI	1370	125

NUEVO LEON

Monterrey		
XEFB	1420	100
XEFJ	1230	100
XEH	1150	250
XET	690	500
XEX	1310	125

PUEBLA

Puebla		
XETH	1210	100

SAN LUIS POTOSI

San Luis Potosi		
XEZZ	1370	100

SONORA

Hermosillo		
XEBH	930	500
Nogales		
XEAF	990	500

TAMAULIPAS

Matamoros		
XEAM	750	7.5
Nuevo Laredo		
XEBK	1000	100
XEFE	1340	250
XENT	910	150000
Reynosa		
XEAW	960	50000
Tampico		
XEFW	1310	250
XES	990	250

VERACRUZ

Cordoba		
XEAG	1310	10
Jalapa		
XFB	1270	250
XFD	1340	350
Veracruz		
XETF	1220	30
XEU	1010	250

YUCATAN

Merida		
XEFG	550	250
XEME	1240	15
XEY	1000	10
XEZ	630	500

WEST INDIES

CUBA

Caibarien		
CMHD	1270	250
Camaguey		
CMJA	1010	300
CMJC	1390	150
CMJE	1220	50
CMJF	1150	200
CMJK	780	250
CMJL	1340	100
CMJP	1430	75
CMJX	830	500

Cardenas		
CMGE	1370	150

Ciego de Avila		
CMJH	1360	100
CMJI	1130	150
CMJO	1180	50

Cienfuegos		
CMHJ	1160	175
CMHW	820	100
CMHX	760	200

Cruces		
CMHK	1330	250
Havana		
CMBC	640	150
CMBD	1170	500
CMBG	1140	200
CMBN	850	150
CMBS	770	150
CMBX	1070	500
CMBY	970	150
CMCB	1000	500
CMCA	1350	250
CMCB	1230	150
CMCD	950	250
CMCF	810	600
CMCG	680	1000
CMGJ	1110	500
CMCO	1200	250
CMCQ	1410	250
CMCR	1380	150
CMCU	1280	500
CMCW	750	150
CMCX	1500	150
CMCY	1030	5000
CMK	730	3000
CMOA	1440	150
CMOK	1470	150
CMOX	1320	200
CMQ	880	500
CMW	600	1400
CMX	920	1000

Matanzas		
CMG	730	3000
CMOA	1440	150
CMOK	1470	150
CMOX	1320	200
CMQ	880	500
CMW	600	1400
CMX	920	1000

Holguin		
CMKF	1460	250
Manzanillo		
CMKM	1120	200

Matanzas		
CMGC	1400	150
CMGF	1120	150
CMGH	790	250

Pinar del Rio		
CMAB	1340	.....
Sagua la Grande		
CMHA	1070	50

Sancti Spiritus		
CMHB	1240	50
Santa Clara		
CMHI	1210	150

Santiago		
CMKC	1250	150
CMKD	1050	250
CMKR	1400	100
CMKW	1330	.....

DOMINICAN REPUBLIC

San Pedro de Macoris		
HHH	1395	15
Trujillo		
HHJ	1195	15
HHX	800	700
HHZ	1370	10

HAITI

Port-au-Prince		
HHK	920	1000

NORTH AMERICAN B. C. STATIONS BY CALLS

CFAC 930	100	CJIC 1500	100	CMAB 1340	....
Calgary, Alta.		S. Ste. Marie, Ont.		Pinar del Rio, Cuba	
CFCF 600	400	CJKL 1110	100	CMBC 640	150
Montreal, Que.		Kirkland Lake, Ont.		Havana, Cuba	
CFCH 930	100	CJLS 1310	100	CMBD 1170	500
North Bay, Ont.		Yarmouth, N. S.		Havana, Cuba	
CFCN 1030	10000	CJOC 950	100	CMBG 1140	200
Calgary, Alta.		Lethbridge, Alta.		Havana, Cuba	
CFCO 630	100	CJOR 600	500	CMBN 850	150
Chatham, Ont.		Vancouver, B. C.		Havana, Cuba	
CFCT 1450	75	CJRC 630	1000	CMBS 770	150
Victoria, B. C.		Winnipeg, Man.		Havana, Cuba	
CFCY 630	1000	CJRM 540	1000	CMBX 1070	500
Charlottetown, P.E.I.		Moose Jaw, Sask.		Havana, Cuba	
CFJC 880	100	CKAC 730	5000	CMBY 970	150
Kamloops, B. C.		Montreal, Que.		Havana, Cuba	
CFLC 930	100	CKBI 1210	100	CMCZ 1000	500
Prescott, Ont.		Prince Albert, Sask.		Havana, Cuba	
CFNE 550	500	CKCD 1010	100	CMCA 1350	250
Fredericton, N. B.		Vancouver, B. C.		Havana, Cuba	
CFPL 730	100	CKCH 1210	100	CMCB 1230	150
London, Ont.		Hull, Que.		Havana, Cuba	
CFPR 580	50	CKCK 1010	500	CMCD 950	250
Prince Rupert, B. C.		Regina, Sask.		Havana, Cuba	
CFQC 840	1000	CKCL 580	100	CMCF 810	600
Saskatoon, Sask.		Toronto, Ont.		Havana, Cuba	
CFRE 690	10000	CKCO 1010	100	CMCG 680	1000
Toronto, Ont.		Ottawa, Ont.		Havana, Cuba	
CFRC 1510	100	CKCR 1510	100	CMCJ 1110	500
Kingston, Ont.		Waterloo, Ont.		Havana, Cuba	
CFRN 960	100	CKCV 1310	100	CMCO 1200	250
Edmonton, Alta.		Quebec, Que.		Havana, Cuba	
CHAB 1200	100	CKCW 1370	100	CMCQ 1410	250
Moose Jaw, Sask.		Moneton, N. B.		Havana, Cuba	
CHCK 1310	50	CKFC 1410	50	CMCR 1380	150
Charlottetown, P. E. I.		Vancouver, B. C.		Havana, Cuba	
CHGS 1450	50	CKGB 1420	100	CMCU 1280	500
Summerside, P. E. I.		Timmins, Ont.		Havana, Cuba	
CHLP 1120	100	CKIC 1010	50	CMCW 750	150
Montreal, Que.		Wolfville, N. S.		Havana, Cuba	
CHML 1010	100	CKLW 1030	5000	CMCX 1500	150
Hamilton, Ont.		Windsor, Ont.		Havana, Cuba	
CHNC 960	1000	CKMC 1210	50	CMCY 1030	5000
New Carlisle, Que.		Cobalt, Ont.		Havana, Cuba	
CHNS 930	1000	CKMO 1410	100	CMGC 1400	150
Halifax, N. S.		Vancouver, B. C.		Matanzas, Cuba	
CHRC 580	100	CKNX 1200	50	CMGE 1370	150
Quebec, Que.		Wingham, Ont.		Cardenas, Cuba	
CHSJ 1120	500	CKOC 1120	500	CMGF 1120	150
St. John, N. B.		Hamilton, Ont.		Matanzas, Cuba	
CHWK 780	100	CKOV 630	100	CMGH 790	250
Chilliwack, B. C.		Kelowna, B. C.		Matanzas, Cuba	
CJAT 910	1000	CKPC 930	100	CMHA 1070	50
Trill, B. C.		Brantford, Ont.		Sagua la Grande, Cu.	
CJCA 730	1000	CKPR 730	100	CMHB 1240	50
Edmonton, Alta.		Fort William, Ont.		Sancti Spiritus, Cuba	
CJCB 1240	1000	CKSO 780	1000	CMHD 1270	250
Sydney, N. S.		Sudbury, Ont.		Calbarien, Cuba	
CJ CJ 690	100	CKTB 1200	100	CMHI 1210	150
Calgary, Alta.		St. Catharines, Ont.		Santa Clara, Cuba	
CJCS 1210	50	CKUA 580	500	CMHJ 1160	175
Stratford, Ont.		Edmonton, Alta.		Cienfuegos, Cuba	
CJCU 1210	50	CKWX 1010	100	CMHK 1330	250
Aklavik, N. W. T.		Vancouver, B. C.		Cruces, Cuba	
CJGX 1390	100	CKX 1120	100	CMHW 820	100
Yorkton, Sask.		Brandon, Man.		Cienfuegos, Cuba	
		CKY 910	15000	CMHX 760	200
		Winnipeg, Man.		Cienfuegos, Cuba	

NORTH AMERICAN B. C. STATIONS BY CALLS

CMJA 1010	300	HHH 1395	15	KEUB 1420	100
Camaguey, Cuba		San Pedro de M., D. R.		Price, Utah	
CMJC 1390	150	HIJ 1195	15	KEX 1180	5000
Camaguey, Cuba		Trujillo, D. R.		Portland, Ore.	
CMJE 1220	50	HIX 800	700	KFAB 770	10000
Camaguey, Cuba		Trujillo, D. R.		Lincoln, Neb.	
CMJF 1150	200	HIZ 1370	10	KFAC 1300	1000
Camaguey, Cuba		Trujillo, D. R.		Los Angeles, Calif.	
CMJH 1360	100	HP50 1440	25	KFBB 1280	1000
Ciego de Avila, Cuba		Colon, Panama		Great Falls, Mont.	
CMJI 1130	150	HRN 1340	100	KFBI 1050	5000
Ciego de Avila, Cuba		Texueigalpa, Hond.		Abilene, Kans.	
CMJK 780	250	KABC 1420	100	KFBK 1490	5000
Camaguey, Cuba		San Antonio, Texas		Sacramento, Calif.	
CMJL 1340	100	KABR 1420	100	KFDM 560	500
Camaguey, Cuba		Aberdeen, S. Dak.		Beaumont, Texas	
CMJO 1180	50	KADA 1200	100	KFDY 780	1000
Ciego de Avila, Cuba		Ada, Okla.		Brookings, S. D.	
CMJP 1430	75	KALB 1420	100	KFEL 920	500
Camaguey, Cuba		Alexandria, La.		Denver, Colo.	
CMJX 830	500	KALE 1300	500	KFEQ 680	2500
Camaguey, Cuba		Portland, Ore.		St. Joseph, Mo.	
CMK 730	3000	KANS 1210	100	KFGQ 1370	100
Havana, Cuba		Wichita, Kans.		Boone, Iowa	
CMKC 1250	150	KARK 890	250	KFH 1300	1000
Santiago, Cuba		Little Rock, Ark.		Wichita, Kans.	
CMKD 1050	250	KASA 1210	100	KFI 640	50000
Santiago, Cuba		Elk City, Okla.		Los Angeles, Calif.	
CMKF 1460	250	KAST 1370	100	KFIO 1120	100
Holgua, Cuba		Astoria, Ore.		Spokane, Wash.	
CMKM 1120	200	KBIX 1500	100	KFIZ 1420	100
Manzanillo, Cuba		Muskogee, Okla.		Fond du Lac, Wis.	
CMKR 1400	100	KBPS 1420	100	KFJB 1200	100
Santiago, Cuba		Portland, Ore.		Marshalltown, Iowa	
CMKW 1330	....	KBST 1500	100	KFJI 1210	100
Santiago, Cuba		Big Spring, Texas		Klamath Falls, Ore.	
CMOA 1440	150	KBTM 1200	100	KFJM 1370	100
Havana, Cuba		Jonesboro, Ark.		Grand Forks, N. D.	
CMOK 1470	150	KCMC 1420	100	KFJR 1300	500
Havana, Cuba		Texarkana, Ark.		Portland, Ore.	
CMOX 1320	200	KCMO 1370	100	KFJZ 1370	100
Havana, Cuba		Kansas City, Mo.		Fort Worth, Texas	
CMQ 880	500	KCRC 1360	250	KFKA 880	500
Havana, Cuba		Enid, Okla.		Greeley, Colo.	
CMW 600	1400	KCRJ 1310	100	KFKU 1220	1000
Havana, Cuba		Jerome, Ariz.		Lawrence, Kans.	
CMX 920	1000	KDB 1500	100	KFNF 890	500
Havana, Cuba		Santa Barbara, Calif.		Shenandoah, Iowa	
CRCK 1050	1000	KDFN 1440	500	KFOR 1210	100
Quebec, Que.		Casper, Wyo.		Lincoln, Neb.	
CRCM 910	5000	KDKA 980	50000	KFOX 1250	1000
Montreal, Que.		Pittsburgh, Pa.		Long Beach, Calif.	
CRCO 880	1000	KDLR 1210	100	KFPL 1310	100
Ottawa, Ont.		Devils Lake, N. D.		Dublin, Texas	
CRCS 950	100	KDNC 1200	250	KFPW 1210	100
Chicoutimi, Que.		Lewistown, Mont.		Fort Smith, Ark.	
CRCT 840	5000	KDON 1210	100	KFPY 890	1000
Toronto, Ont.		Del Monte, Calif.		Spokane, Wash.	
CRCV 1100	1000	KDYL 1290	1000	KQD 780	250
Vancouver, B. C.		Salt Lake City, Utah		Anchorage, Alaska	
CRCW 600	500	KECA 1430	1000	KFRC 610	1000
Windsor, Ont.		Los Angeles, Calif.		San Francisco, Calif.	
FQN 609	250	KEHE 780	500	KFR0 1370	100
St. Pierre, Miq.		Los Angeles, Calif.		Longview, Texas	
HHK 920	1000	KELD 1370	100	KFRU 630	500
Port-au-Prince, Haiti		El Dorado, Ark.		Columbia, Mo.	
		KERN 1370	100	KFSD 600	1000
		Bakersfield, Calif.		San Diego, Calif.	

NORTH AMERICAN B. C. STATIONS BY CALLS

KFSD 1120	500	KGCF 1010	1000	KIUI 1310	100
Los Angeles, Calif.		Coffeyville, Kans.		Santa Fe, N. Mex.	
KFUD 550	500	KCGM 1230	250	KIUL 1210	100
St. Louis, Mo.		Albuquerque, N. M.		Garden City, Kans.	
KFVU 1000	250	KGHF 1120	500	KIUN 1420	100
Los Angeles, Calif.		Pueblo, Colo.		Pecos, Texas	
KFVS 1210	100	KGHI 1200	100	KIUP 1370	100
Cape Girardeau, Mo.		Little Rock, Ark.		Durango, Colo.	
KFWB 950	1000	KGHL 700	1000	KJBS 1070	500
Hollywood, Calif.		Bullhead, Mont.		San Francisco, Calif.	
KFXD 1200	100	KGIR 1340	1000	KJR 970	5000
Nampa, Idaho		Butte, Mont.		Seattle, Wash.	
KFXJ 1200	100	KGIW 1420	100	KLH 1210	100
Grand Junction, Colo.		Alamosa, Colo.		Carsbad, N. Mex.	
KFXM 1210	100	KGKE 1500	100	KLCN 1200	100
San Bernardino, Calif.		Tyler, Texas		Blytheville, Ark.	
KFXR 1310	100	KGKL 1370	100	KLO 1400	500
Oklahoma City, Okla.		San Angelo, Texas		Ordan, Utah	
KFYO 1310	100	KGKO 570	250	KLM 1240	250
Lubbock, Texas		Wichita Falls, Texas		Shmo, N. D.	
KFYR 550	1000	KGRV 1500	100	KLBA 1390	1000
Bismarck, N. D.		Scottsbluff, Neb.		Little Rock, Ark.	
KGA 1470	5000	KGLO 1210	100	KLS 1440	250
Spokane, Wash.		Mason City, Iowa		Oakland, Calif.	
KGAR 1370	100	KGMB 1320	1000	KLUF 1370	100
Tucson, Ariz.		Honolulu, T. H.		Galveston, Texas	
KGB 1330	1000	KGNC 1410	1000	KLX 800	1000
San Diego, Calif.		Amarillo, Texas		Oakland, Calif.	
KGRU 900	500	KGNF 1430	1000	KLZ 500	1000
Ketehikan, Alaska		North Platte, Neb.		Denver, Colo.	
KGBX 1230	500	KGNO 1340	250	KMA 930	1000
Springfield, Mo.		Dodge City, Kans.		KMA 930	1000
KGCA 1270	100	KGO 790	7500	KMIAC 1370	100
Decorah, Iowa		San Francisco, Calif.		San Antonio, Texas	
KGCU 1240	250	KGU 750	2500	KMBK 950	1000
Mandan, N. D.		Honolulu, T. H.		KMBC 950	1000
KGCX 1310	100	KGVO 1200	1000	KMED 1310	100
Wolf Point, Mont.		Missoula, Mont.		Medford, Ore.	
KGDE 1200	100	KGW 520	1000	KMJ 500	500
Ferris Falls, Minn.		Portland, Ore.		Fremont, Calif.	
KGDM 1100	1000	KGY 1210	100	KMLB 1200	100
Stockton, Calif.		Olympia, Wash.		Monroe, La.	
KGDY 1340	250	KHBC 1400	250	KMHW 740	1000
Huron, S. D.		Hilo, T. H.		KMO 1330	250
KGEM 1200	100	KHJ 900	1000	KMOX 1090	50000
Long Beach, Calif.		Los Angeles, Calif.		St. Louis, Mo.	
KGER 1350	1000	KHK 590	1000	KMPG 710	500
Sterling, Colo.		Spokane, Wash.		Beverly Hills, Calif.	
KGEZ 1310	100	KHSL 950	250	KMTR 570	1000
Kalsapell, Mont.		Chico, Calif.		Hollywood, Calif.	
KGFF 1420	100	KHUB 1310	250	KMEL 1500	100
Shownee, Okla.		Watsonville, Calif.		KMEL 1500	100
KGFG 1370	100	KICA 1370	100	KMKT 1420	100
Oklaohoma City, Okla.		Clayton, N. M.		KMKT 1420	100
KGFI 1500	100	KID 1320	500	KMNE 1500	100
Corpus Christi, Texas		Idaho Falls, Idaho		KNOW 1500	100
KGFJ 1200	100	KIDQ 1350	1000	KNUX 1050	50000
Los Angeles, Calif.		Boise, Idaho		KNUX 1050	50000
KGFK 1500	100	KIOW 1420	100	KOA 830	50000
Moorhead, Minn.		Lamar, Colo.		Denver, Colo.	
KGFL 1370	100	KKEM 1450	500	KOAC 550	1000
Houston, N. M.		Enterprise, Calif.		KOAC 550	1000
KGPW 1310	100	KKEV 950	250	KOR 1180	100000
Keating, Neb.		Grandale, Calif.		Albuquerque, N. M.	
KGFY 630	200	KKMY 1310	100	KOBH 1370	100
Pierre, S. D.		Juntura, Alaska		Rapid City, S. Dak.	
KGGC 1420	100	KKRO 710	1000	KOCA 1210	100
San Francisco, Calif.		Seattle, Wash.		Kilgore, Texas	
		KIT 1310	100	KOH 1380	500
		Yakima, Wash.		Reno, Nev.	

NORTH AMERICAN B. C. STATIONS BY CALLS

KOIL 1260 1000 Omaha, Nebr.	KROY 1310 100 Sacramento, Calif.	KVI 570 1000 Tacoma, Wash.
KOIN 940 1000 Portland, Ore.	KRRV 1310 100 Sherman, Texas	KVL 1370 100 Seattle, Wash.
KOL 1270 1000 Seattle, Wash.	KRSC 1120 100 Seattle, Wash.	KVOA 1260 500 Tucson, Ariz.
KOMA 1480 5000 Oklahoma City, Okla.	KSAC 580 500 Manhattan, Kans.	KVOD 920 500 Denver, Colo.
KOMO 920 1000 Seattle, Wash.	KSCJ 1330 1000 Sioux City, Iowa	KVOE 1500 100 Santa Ana, Calif.
KONO 1370 100 San Antonio, Texas	KSD 550 1000 St. Louis, Mo.	KVOL 1310 100 Lafayette, La.
KOOS 1200 250 Marshfield, Ore.	KSEI 900 250 Pocatello, Idaho	KVOO 1140 25000 Tulsa, Okla.
KORE 1420 100 Eugene, Ore.	KSFO 560 1000 San Francisco, Calif.	KVOR 1270 1000 Colorado Spgs., Colo.
KOTN 1500 100 Pine Bluffs, Ark.	KSL 1130 50000 Salt Lake City, Utah	KVOS 1200 100 Bellingham, Wash.
KOVC 1500 100 Valley City, N. Dak.	KSLM 1370 100 Salem, Ore.	KVSO 1210 100 Ardmore, Okla.
KOY 1390 500 Phoenix, Ariz.	KSO 1430 500 Des Moines, Iowa	KWBG 1420 100 Hutchinson, Kans.
KPAC 1260 500 Port Arthur, Texas	KSOO 1110 2500 Sioux Falls, S. D.	KWG 1200 100 Stockton, Calif.
KPDN 1310 100 Pampa, Texas	KSTP 1460 25000 St. Paul, Minn.	KWJJ 1040 500 Portland, Ore.
KPLC 1500 100 Lake Charles, La.	KSUN 1200 100 Lowell, Ariz.	KWK 1350 1000 St. Louis, Mo.
KPLT 1500 100 Paris, Texas	KTAR 620 1000 Phoenix, Ariz.	KWKH 1100 10000 Shreveport, La.
KPO 680 50000 San Francisco, Calif.	KTAT 1240 1000 Fort Worth, Texas	KWLC 1270 100 Decorah, Iowa
KPOF 880 500 Denver, Colo.	KTBS 1450 1000 Shreveport, La.	KWSC 1220 1000 Pullman, Wash.
KPPC 1210 100 Pasadena, Calif.	KTEM 1370 100 Temple, Texas	KWTN 1210 100 Watertown, S. D.
KPQ 1500 100 Wenatchee, Wash.	KTEP 1500 100 El Paso, Texas	KWTO 560 5000 Springfield, Mo.
KPRC 920 1000 Houston, Texas	KTFI 1240 1000 Twin Falls, Idaho	KWYO 1370 100 Sheridan, Wyo.
KQV 1380 500 Pittsburgh, Pa.	KTHS 1060 10000 Hot Springs, Ark.	KXA 760 250 Seattle, Wash.
KQW 1010 1000 San Jose, Calif.	KTRB 740 250 Modesto, Calif.	KXL 1420 100 Portland, Ore.
KRBC 1420 100 Ablene, Texas	KTRH 1290 1000 Houston, Texas	KXO 1500 100 El Centro, Calif.
KRE 1370 100 Berkeley, Calif.	KTSA 550 1000 San Antonio, Texas	KXRO 1310 100 Aberdeen, Wash.
KRGV 1260 500 Weslaco, Texas	KTSM 1310 100 El Paso, Texas	KXYZ 1440 1000 Houston, Texas
KRKD 1120 500 Los Angeles, Calif.	KTUL 1400 500 Tulsa, Okla.	KYA 1230 1000 San Francisco, Calif.
KRKO 1370 50 Everett, Wash.	KTW 1220 1000 Seattle, Wash.	KYOS 1040 250 Merced, Calif.
KRLC 1420 100 Lewiston, Idaho	KUJ 1370 100 Walla Walla, Wash.	KYW 1020 10000 Philadelphia, Pa.
KRLD 1040 10000 Dallas, Texas	KUMA 1420 100 Yuma, Ariz.	NAA 690 1000 Arlington, Va.
KRLH 1420 100 Midland, Texas	KUOA 1260 1000 Siloam Springs, Ark.	RDN 680 500 San Salvador, E. S.
KRMD 1310 100 Shreveport, La.	KUSD 890 500 Vermillion, S. D.	TGW 1210 10000 Guatemala, Gua.
KRRR 1500 100 Roseburg, Ore.	KUTA 1500 100 Salt Lake City, Utah	TGX 1400 250 Guatemala City
KRNT 1320 500 Des Moines, Iowa	KVCV 1200 100 Redding, Calif.	TIEP 850 500 San Jose, C. R.
KROC 1310 100 Rochester, Minn.	KVEC 1200 250 San Luis Obispo, Calif.	
KROW 930 1000 Oakland, Calif.		

NORTH AMERICAN B. C. STATIONS BY CALLS

TIFA 1050	75	WATL 1370	100	WCAD 1220	500
San Jose, C. R.		Atlanta, Ga.		Canton, N. Y.	
TIFS 1441	7.5	WATR 1190	100	WCAE 1220	1000
Cartago, C. R.		Waterbury, Conn.		Pittsburgh, Pa.	
TIGA 1014	30	WAVE 940	1000	WCAL 1250	1000
Cartago, C. R.		Louisville, Ky.		Northfield, Minn.	
TIGH 1000	500	WAWZ 1350	500	WCAM 1280	500
San Jose, C. R.		Zarephath, N. J.		Camden, N. J.	
TIGPH 650	1000	WAYX 1200	100	WCAO 600	500
San Jose, C. R.		Waycross, Ga.		Baltimore, Md.	
TIRH 930	50	WAZL 1420	100	WCAP 1280	500
San Jose, C. R.		Hasleton, Pa.		Asbury Park, N. J.	
TIVCA 1225	....	WBBA 890	500	WCAT 1200	100
San Jose, C. R.		West Lafayette, Ind.		Rapid City, S. D.	
TIX 800	....	WBAL 760	2500	WCAU 1170	50000
San Jose, C. R.		Baltimore, Md.		Philadelphia, Pa.	
VAS 685	2000	WBAL 1060	10000	WCAX 1200	100
Glace Bay, N. S.		Baltimore, Md.		Burlington, Vt.	
VE9EK 1185	10	WBAP 800	50000	WCZ 1070	100
Montmagny, Que.		Fort Worth, Texas		Carthage, Ill.	
VOAC 1065	40	WBAX 1210	100	WCBA 1440	500
St. John's, Nfld.		Wilkes-Barre, Pa.		Allentown, Pa.	
VOAS 940	100	WBBC 1400	500	WCBD 1080	5000
St. John's, Nfld.		Brooklyn, N. Y.		Waukegan, Ill.	
VOGY 840	400	WBBL 1210	100	WCBM 1370	100
St. John's, Nfld.		Richmond, Va.		Baltimore, Md.	
VONF 1195	500	WBMM 770	50000	WCBS 1420	100
St. John's, Nfld.		Chicago, Ill.		Springfield, Ill.	
VOWR 651	500	WBBR 1300	1000	WCCO 810	50000
St. John's, Nfld.		Brooklyn, N. Y.		Minneapolis, Minn.	
WAAB 1410	500	WBBZ 1200	100	WCFL 970	5000
Boston, Mass.		Ponca City, Okla.		Chicago, Ill.	
WAAF 920	1000	WBCM 1410	500	WCHS 580	500
Chicago, Ill.		Bay City, Mich.		Charleston, W. Va.	
WAAT 940	500	WBEN 900	1000	WCHV 1420	100
Jersey City, N. J.		Buffalo, N. Y.		Charlottesville, Va.	
WAAW 660	500	WBEO 1310	100	WCKY 1490	5000
Omaha, Neb.		Marquette, Mich.		Covington, Ky.	
WABC 860	50000	WBIG 1440	500	WCLO 1200	100
New York, N. Y.		Greensboro, N. C.		Janesville, Wis.	
WABI 1200	100	WBK 1370	100	WCLS 1310	100
Bangor, Maine		Clarksburg, W. Va.		Joliet, Ill.	
WABY 1370	100	WBLY 1210	100	WCMI 1310	100
Albany, N. Y.		Lima, Ohio		Ashland, Ky.	
WACO 1420	100	WBNO 1200	100	WCNW 1500	100
Waco, Texas		New Orleans, La.		Brooklyn, N. Y.	
WADC 1320	1000	WBNS 1430	500	WCOA 1340	500
Akron, Ohio		Columbus, Ohio		Pensacola, Fla.	
WAGF 1370	250	WBNX 1350	1000	WCOC 880	500
Dothan, Ala.		New York, N. Y.		Meridian, Miss.	
WAGM 1420	100	WBNY 1370	100	WCOL 1210	100
Presque Isle, Me.		Buffalo, N. Y.		Columbus, Ohio	
WAIM 1200	100	WBOQ 860	50000	WCOP 1120	500
Anderson, S. C.		New York, N. Y.		Boston, Mass.	
WALA 1380	500	WBOW 1310	100	WCPO 1200	100
Mobile, Ala.		Terre Haute, Ind.		Cincinnati, Ohio	
WALR 1210	100	WBRB 1210	100	WCRW 1210	100
Zanesville, Ohio		Red Bank, N. J.		Chicago, Ill.	
WAML 1310	100	WBRC 920	1000	WCSC 1360	500
Laurel, Miss.		Birmingham, Ala.		Charleston, S. C.	
WAPI 1140	5000	WBRE 1310	100	WCSH 940	1000
Birmingham, Ala.		Wilkes-Barre, Pa.		Portland, Me.	
WAPO 1420	100	WBT 1080	50000	WDAE 1220	1000
Chattanooga, Tenn.		Charlotte, N. C.		Tampa, Fla.	
WARD 1400	500	WBTM 1370	100	WDAF 610	1000
Brooklyn, N. Y.		Danville, Va.		Kansas City, Mo.	
WASH 1270	500	WBZ 990	50000	WDAH 1310	100
Grand Rapids, Mich.		Boston, Mass.		El Paso, Texas	
		WBZA 990	1000		
		Springfield, Mass.			

NORTH AMERICAN B. C. STATIONS BY CALLS

WDAS 1370	100	WFAA 800	50000	WHAS 820	50000
Philadelphia, Pa.		Dallas, Texas		Louisville, Ky.	
WDAY 940	1000	WFAB 1300	1000	WHAT 1310	100
Fargo, N. D.		New York, N. Y.		Philadelphia, Pa.	
WDBJ 930	1000	WFAM 1200	100	WHAZ 1300	500
Roanoke, Va.		South Bend, Ind.		Troy, N. Y.	
WDBO 580	1000	WFAS 1210	100	WHB 860	1000
Orlando, Fla.		White Plains, N. Y.		Kansas City, Mo.	
WDEL 1120	250	WFBC 1300	1000	WHBB 1500	100
Wilmington, Del.		Greenville, S. C.		Selma, Alabama	
WDEV 550	500	WFBG 1310	100	WHBC 1200	100
Waterbury, Vt.		Altoona, Pa.		Canton, Ohio	
WDGY 1180	1000	WFBL 1360	1000	WHBF 1210	100
Minneapolis, Minn.		Syracuse, N. Y.		Rock Island, Ill.	
WDNC 1500	100	WFBS 1230	1000	WHBI 1250	1000
Durham, N. C.		Indianapolis, Ind.		Newark, N. J.	
WDOD 1280	1000	WFBR 1270	500	WHBL 1300	250
Chattanooga, Tenn.		Baltimore, Md.		Sheboygan, Wis.	
WDRG 1330	1000	WFDF 1310	100	WHBQ 1370	100
Hartford, Conn.		Flint, Mich.		Memphis, Tenn.	
WDSU 1250	1000	WFEA 1340	500	WHBU 1210	100
New Orleans, La.		Manchester, N. H.		Anderson, Ind.	
WDWS 1370	100	WFIL 560	1000	WHBY 1200	100
Champaign, Ill.		Philadelphia, Pa.		Green Bay, Wis.	
WDZ 1020	250	WFLA 620	1000	WHDF 1370	100
Tuscola, Ill.		Clearwater, Fla.		Calumet, Mich.	
WEAF 660	50000	WFMD 900	500	WHDH 830	1000
New York, N. Y.		Frederick, Md.		Boston, Mass.	
WEAN 780	500	WFOR 1370	100	WHDL 1420	100
Providence, R. I.		Hattiesburg, Miss.		Olean, N. Y.	
WEAU 1050	250	WFOY 1210	100	WHEB 740	250
Eau Claire, Wis.		St. Augustine, Fla.		Portsmouth, N. H.	
WEBC 1290	1000	WGAL 1500	100	WHEC 1430	500
Duluth, Minn.		Lancaster, Pa.		Rochester, N. Y.	
WEBQ 1210	100	WGAN 640	500	WHEF 1500	100
Harrisburg, Ill.		Portland, Me.		Kosciusko, Miss.	
WEBR 1310	100	WGAR 1450	500	WHFC 1420	100
Buffalo, N. Y.		Cleveland, Ohio		Cicero, Ill.	
WEDC 1210	100	WGBB 1210	100	WHIO 1260	1000
Chicago, Ill.		Freeport, N. Y.		Dayton, Ohio	
WEED 1420	100	WGBF 630	500	WHIS 1410	500
Rocky Mount, N. C.		Evansville, Ind.		Bluefield, W. Va.	
WEEL 590	1000	WGBI 880	500	WHJB 620	250
Boston, Mass.		Scranton, Pa.		Greensburg, Pa.	
WEEU 830	1000	WGCM 1210	100	WHK 1390	1000
Reading, Pa.		Gulfport, Miss.		Cleveland, Ohio	
WEGL 1400	500	WGES 1360	500	WHKC 640	500
Brooklyn, N. Y.		Chicago, Ill.		Columbus, Ohio	
WEHS 1420	100	WGH 1310	100	WHLS 1370	100
Cicero, Ill.		Newport News, Va.		Virginia, Minn.	
WELI 900	500	WGL 1370	100	WHN 1010	1000
New Haven, Conn.		Fort Wayne, Ind.		New York, N. Y.	
WELL 1420	100	WGN 720	50000	WHO 1000	50000
Battle Creek, Mich.		Chicago, Ill.		Des Moines, Iowa	
WEMP 1310	100	WGNY 1210	100	WHOM 1450	250
Milwaukee, Wis.		Newburgh, N. Y.		Jersey City, N. J.	
WENR 870	50000	WGPC 1420	100	WHP 1430	500
Chicago, Ill.		Albany, Ga.		Harrisburg, Pa.	
WEOA 1370	100	WGR 550	1000	WIBA 1280	1000
Evansville, Ind.		Buffalo, N. Y.		Madison, Wis.	
WESG 850	1000	WGRC 1370	250	WIBG 970	100
Elmira, N. Y.		New Albany, Ind.		Glenside, Pa.	
WEST 1200	100	WGST 890	1000	WIBM 1370	100
Easton, Pa.		Atlanta, Ga.		Jackson, Mich.	
WEVD 1300	1000	WGY 790	50000	WIBU 1210	100
New York, N. Y.		Schenectady, N. Y.		Poynette, Wis.	
WEW 760	1000	WHA 940	5000	WIBW 580	1000
St. Louis, Mo.		Madison, Wis.		Topeka, Kans.	
WEXL 1310	50	WHAM 1150	50000		
Royal Oak, Mich.		Rochester, N. Y.			

NORTH AMERICAN B. C. STATIONS BY CALLS

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

NORTH AMERICAN B. C. STATIONS BY CALLS

WNBX 1260 1000 Springfield, Vt.	WPRA 1370 100 Mayaguez, P. R.	WSGN 1310 100 Birmingham, Ala.
WNBZ 1290 100 Saranac Lake, N. Y.	WPRO 630 500 Providence, R. I.	WSIX 1210 100 Springfield, Tenn.
WNEL 1290 1000 San Juan, P. R.	WPRP 1420 100 Ponce, P. R.	WSJS 1310 100 Winston-Salem, N. C.
WNEW 1250 1000 Newark, N. J.	WPTF 680 1000 Raleigh, N. C.	WSM 650 50000 Nashville, Tenn.
WNLC 1500 100 New London, Conn.	WQAM 560 1000 Miami, Fla.	WSMB 1320 1000 New Orleans, La.
WNOX 1010 1000 Knoxville, Tenn.	WQAN 880 250 Scranton, Pa.	WSMK 1380 200 Dayton, Ohio
WNRI 1200 100 Newport, R. I.	WQBC 1360 1000 Vicksburg, Miss.	WSOC 1210 100 Charlotte, N. C.
WNYC 810 1000 New York, N. Y.	WQDM 1370 100 St. Albans, Vt.	WSRA 920 1000 Spartanburg, S. C.
WOAI 1190 50000 San Antonio, Texas	WRAK 1370 100 Williamsport, Pa.	WSPB 1340 1000 Toledo, Ohio
WOC 1370 100 Davenport, Iowa	WRAW 1310 100 Reading, Pa.	WSPR 1140 500 Springfield, Mass.
WOCL 1210 50 Jamestown, N. Y.	WRAX 920 250 Philadelphia, Pa.	WSUI 880 500 Iowa City, Iowa
WOI 640 5000 Ames, Iowa	WRBL 1200 100 Columbus, Ga.	WSUN 620 1000 St. Petersburg, Fla.
WOKO 1430 500 Albany, N. Y.	WRC 950 500 Washington, D. C.	WSVA 550 500 Harrisonburg, Va.
WOL 1310 100 Washington, D. C.	WRDO 1370 100 Augusta, Me.	WSVS 1370 50 Buffalo, N. Y.
WOMT 1210 100 Manitowoc, Wis.	WRDW 1500 100 Augusta, Ga.	WSYB 1500 100 Rutland, Vt.
WOOD 1270 500 Grand Rapids, Mich.	WHEC 600 1000 Memphis, Tenn.	WSYR 570 1000 Syracuse, N. Y.
WOPI 1500 100 Bristol, Tenn.	WREN 1220 1000 Lawrence, Kans.	WTAD 900 500 Quincy, Ill.
WOR 710 50000 Newark, N. J.	WRGA 1500 100 Rome, Ga.	WTAG 580 500 Worcester, Mass.
WORC 1280 500 Worcester, Mass.	WRJN 1370 100 Racine, Wis.	WTAL 1310 100 Tallahassee, Fla.
WORK 1320 1000 York, Pa.	WROK 1410 500 Rockford, Ill.	WTAM 1070 50000 Cleveland, Ohio
WORL 920 500 Boston, Mass.	WROL 1310 100 Knoxville, Tenn.	WTAQ 1330 1000 Green Bay, Wis.
WOS 630 500 Jefferson City, Mo.	WRR 1280 500 Dallas, Texas	WTAR 780 500 Norfolk, Va.
WOSU 570 750 Columbus, Ohio	WRUF 830 5000 Gainesville, Fla.	WTAW 1120 500 College Station, Tex.
WOV 1130 1000 New York, N. Y.	WRVA 1110 5000 Richmond, Va.	WTAX 1210 100 Springfield, Ill.
WOW 590 5000 Omaha, Neb.	WSAI 1330 1000 Cincinnati, Ohio	WTBO 800 250 Cumberland, Md.
WOWO 1160 10000 Fort Wayne, Ind.	WSAJ 1310 100 Grove City, Pa.	WTCN 1250 1000 Minneapolis, Minn.
WPAD 1420 100 Paducah, Ky.	WSAN 1440 500 Allentown, Pa.	WTEL 1310 100 Philadelphia, Pa.
WPAR 1420 100 Parkersburg, W. Va.	WSAR 1350 1000 Fall River, Mass.	WTFI 1450 500 Athens, Ga.
WPAX 1210 100 Thomasville, Ga.	WSAY 1210 100 Rochester, N. Y.	WTHT 1200 100 Hartford, Conn.
WPAY 1370 100 Portsmouth, Ohio	WSAZ 1190 1000 Huntington, W. Va.	WTIC 1040 50000 Hartford, Conn.
WPEN 920 250 Philadelphia, Pa.	WSB 740 50000 Atlanta, Ga.	WTJS 1310 100 Jackson, Tenn.
WPG 1100 5000 Atlantic City, N. J.	WSBC 1210 100 Chicago, Ill.	WTMJ 620 1000 Milwaukee, Wis.
WPHR 880 500 Petersburg, Va.	WSBT 1360 500 South Bend, Ind.	WTMV 1500 100 East St. Louis, Ill.
	WSFA 1410 500 Montgomery, Ala.	

NORTH AMERICAN B. C. STATIONS BY CALLS

WTNJ 1280	500	XECW 1310	10	XERA 840	350000
Trenton, N. J.		Mexico City, D. F.		Villa Acuna, Coah.	
WTOC 1260	1000	XED 1160	2500	XES 990	250
Savannah, Ga.		Guadalajara, Jal.		Tampico, Tams.	
WTRC 1310	100	XEE 1210	50	XET 690	500
Elkhart, Ind.		Durango, Dgo.		Monterrey, N. L.	
WVFW 1400	500	XEF 1450	100	XETB 1310	125
Brooklyn, N. Y.		Juarez, Chih.		Torreón, Coah.	
WWAE 1200	100	XEFA 1180	500	XETF 1220	30
Hammond, Ind.		Mexico City, D. F.		Veracruz, Ver.	
WWJ 920	1000	XEFB 1420	100	XETH 1210	100
Detroit, Mich.		Monterrey, N. L.		Puebla, Pue.	
WWL 850	10000	XEFC 550	250	XEU 1010	250
New Orleans, La.		Merida, Yuc.		Veracruz, Ver.	
WWNC 570	1000	XEFE 1340	250	XEW 890	50000
Asheville, N. C.		Laredo, Tams.		Mexico City, D. F.	
WWRL 1500	100	XEFI 1440	250	XEWZ 1150	100
Woodside, N. Y.		Chihuahua, Chih.		Mexico City, D. F.	
WWSW 1500	100	XEFJ 1230	100	XEX 1310	125
Pittsburgh, Pa.		Monterrey, N. L.		Monterrey, N. L.	
WWVA 1160	5000	XEFL 1150	250	XEXM 610	.....
Wheeling, W. Va.		Tijuana, L. C.		Mexico City, D. F.	
WXYZ 1240	1000	XEFO 940	5000	XEY 1000	10
Detroit, Mich.		Mexico City, D. F.		Merida, Yuc.	
W1XBS 1530	1000	XEFV 1210	100	XEYZ 780	10000
Waterbury, Conn.		Juarez, Chih.		Mexico City, D. F.	
W2XR 1550	1000	XEFW 1310	250	XEZ 630	500
Long Island City, N. Y.		Tampico, Tams.		Merida, Yuc.	
W6XAI 1550	1000	XEFZ 1370	100	XEZZ 1370	100
Bakersfield, Calif.		Mexico City, D. F.		San Luis Potosí, S. L. P.	
W9XBY 1530	1000	XEG 1270	200	XFA 1310	5
Kansas City, Mo.		Ensenada, B. C.		Agua Calientes, Aga.	
XEA 1060	500	XEH 1150	250	XFB 1270	250
Guadalajara, Jal.		Monterrey, N. L.		Jalapa, Ver.	
XEAA 920	200	XEI 1370	125	XFC 810	350
Mexicali, B. C.		Morelia, Mich.		Agua Calientes, Aga.	
XEAC 1240	250	XEJ 1020	1000	XFD 1340	350
Tijuana, L. C.		Juarez, Chih.		Jalapa, Ver.	
XEAF 990	500	XEK 990	100	XFO 940	5000
Nogales, Son.		Mexico City, D. F.		Mexico City, D. F.	
XEAG 1310	10	XEKL 1240	500	XFX 610	1000
Cordoba, Ver.		Leon, Guan.		Mexico City, D. F.	
XEAI 1240	100	XEL 1100	250	YNLF 1275	20
Mexico City, D. F.		Mexico City, D. F.		Managua, Nicaragua	
XEAM 750	7.5	XELA 1240	50	YNOP 1230	100
Matamoros, Tams.		Saltillo, Coah.		Managua, Nicaragua	
XEAO 560	250	XELO 1110	10000	YNVA 950	30
Mexicali, B. C.		Piedras Negras, Coah.		Managua, Nicaragua	
XEAQ 1090	1000	XEME 1240	15		
Rosarito, L. C.		Merida, Yuc.			
XEAS 1160	100	XEMO 860	5000		
Saltillo, Coah.		Tijuana, L. C.			
XEAT 1210	300	XEMX 1280	12		
Hidalgo, Chih.		Mexico City, D. F.			
XEAW 960	50000	XEMZ 820	.....	
Reynosa, Tams.		Coronado Isl., L. C.			
XEAZ 1420	7	XEN 710	1000		
Guanajuato, Gto.		Mexico City, D. F.			
XEB 1030	10000	XENT 910	150000		
Mexico City, D. F.		Nuevo Laredo, Tams.			
XEBC 730	5000	XEOK 760	250		
Agua Caliente, L. C.		Tijuana, L. C.			
XEBH 930	500	XEOX 640	500		
Hermosillo, Sonora		Saltillo, Coah.			
XEBK 1000	100	XEP 1160	500		
Nuevo Laredo, Tams.		Juarez, Chih.			
XEBZ 820	100	XEPN 730	100000		
Mexico City, D. F.		Piedras Negras, Coah.			
XEC 1160	30				
Tijuana, L. C.					

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By B. Francis Dashiell

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AROUND THE CLOCK ON THE SHORT WAVES

The time is given by the 24-hour clock. Noon is always 12:00 but midnight may be either 00:00 or 24:00. To change time to your own clock, subtract twelve from p.m. hours. Thus, 18:00 is 6 p.m. and 23:00 is 11:00 p.m. The time lines used in charts are for Eastern Standard. Those living in other zones may clip out the lines below and paste them over the EST lines. The following strips are for Central Standard Time. For MST, start with 10:00 and 22:00. For PST with 09:00 and 21:00.

Central Time A. M.	11:00	23:00	11:15	23:15	11:30	23:30	11:45	23:45	12:00	00:00	12:15	00:15	12:30	00:30	12:45	00:45	13:00	01:00	13:15	01:15	13:30	01:30	13:45	01:45	14:00	02:00	14:15	02:15	14:30	02:30	14:45	02:45	15:00	03:00	15:15	03:15	15:30	03:30	15:45	03:45	16:00	04:00	16:15	04:15	16:30	04:30	16:45	04:45	17:00	05:00	17:15	05:15	17:30	05:30	17:45	05:45	18:00	06:00	18:15	06:15	18:30	06:30	18:45	06:45	19:00	07:00	19:15	07:15	19:30	07:30	19:45	07:45	20:00	08:00	20:15	08:15	20:30	08:30	20:45	08:45	21:00	09:00	21:15	09:15	21:30	09:30	21:45	09:45	22:00	10:00	22:15	10:15	22:30	10:30	22:45	10:45
Central Time P. M.	11:00	11:15	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	17:45	18:00	18:15	18:30	18:45	19:00	19:15	19:30	19:45	20:00	20:15	20:30	20:45	21:00	21:15	21:30	21:45	22:00	22:15	22:30	22:45																																																
Central Time P. M.	11:00	11:15	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	17:45	18:00	18:15	18:30	18:45	19:00	19:15	19:30	19:45	20:00	20:15	20:30	20:45	21:00	21:15	21:30	21:45	22:00	22:15	22:30	22:45																																																
Central Time P. M.	11:00	11:15	11:30	11:45	12:00	12:15	12:30	12:45	13:00	13:15	13:30	13:45	14:00	14:15	14:30	14:45	15:00	15:15	15:30	15:45	16:00	16:15	16:30	16:45	17:00	17:15	17:30	17:45	18:00	18:15	18:30	18:45	19:00	19:15	19:30	19:45	20:00	20:15	20:30	20:45	21:00	21:15	21:30	21:45	22:00	22:15	22:30	22:45																																																

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Statement of Ownership

Statement of the ownership, management, circulation, etc., required by the Acts of Congress of August 24, 1912, and March 3, 1933, of Radio Index published Monthly except July and August at Cleveland, O., for October 1, 1936. State of Ohio, County of Ashtabula, ss. Before me, a Notary Public in and for the State and county aforesaid, personally appeared Fred C. Butler, who, having been duly sworn according to law, deposes and says that he is the Editor of the Radio Index and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Act of March 3, 1933, embodied in section 537, Postal Laws and Regulations, printed on the reverse of this form, to wit: 1. That the names and addresses of the publisher, editor, managing editor, and business managers are: Publisher, The Radex Press, 326 Penton Building, Cleveland, O. Editor, Fred C. Butler, Managing Editor, none. Business Managers, none. 2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.) Fred C. Butler d. b. a. The Radex Press, 326 Penton Building, Cleveland, O. 3. That the known bondholders, mortgagees, and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none, so state.) None. 4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him. 5. That the average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the twelve months preceding the date shown above is (This information is required from daily publications only.) Fred C. Butler (Signature of editor, publisher, business manager, or owner.) Sworn to and subscribed before me this 8th day of Oct. 1936. (Seal.) May M. Parker. (My commission expires Feb. 13, 1937.)

The Republic of Panama is soon to have another shortwave station, this one at David. Mr. Leo Marchowsky is the head of the company back of the venture. We understand the station will be known by the name ASIUL AIRAM, which is "Maria Louisa" backwards. The frequency will be 11740 kcs.

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