

THE DECEMBER 1936

25^c

RADIO INDEX

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

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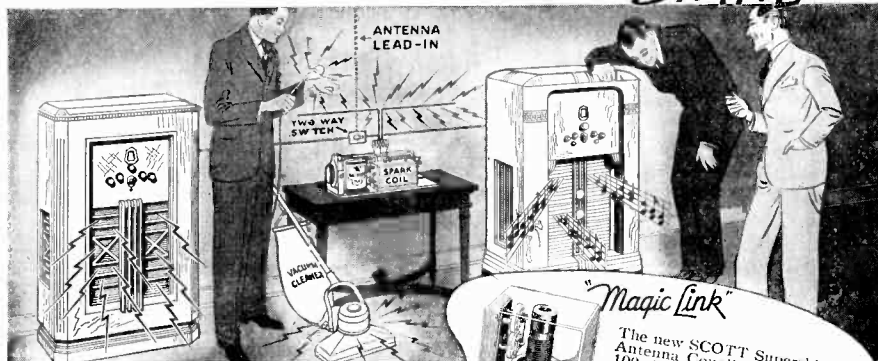
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The Radex Press, Conneaut, O.

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 equipped with the sensational new "MAGIC LINK", the SCOTT Super-shield 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.

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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 Super-shield 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.....
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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,

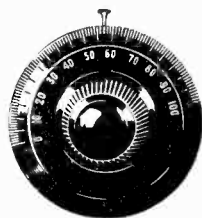
radio loses a master technician, a loyal and devoted friend, an ardent supporter.

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 IN DEX



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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\$1.75 Per Year

25c Per Copy

See Subscription Blank on Page 11
Published Monthly Excepting July and August

THE RADEX PRESS

Publication Office: 326 Penton Bldg., Cleveland Ohio
Editorial and Advertising Office: Cleveland, Ohio

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

Printed in U. S. A.

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 Saller'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)

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 tipppers."

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. Franca 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, WCMI, 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 kcys. 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, CMCB, 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)

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	KIDR 1350	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 1250	1:30 p.m.	KDYL 1290 ²	KOY 1390	8:15 p.m.	KOY 1390
8:45 a.m.	KDFN 1440	KLZ 560	KGHF 1320	KFEL 920a	6:15 p.m.	KOB 1180	KVOD 920 ²
KIUN 1420	KIDO 1350	11:10 a.m.	1:50 p.m.	4:30 p.m.	CHAB 1200	8:30 p.m.	10:35 p.m.
9:00 a.m.	KOBH 1370	KDFN 1440	KVOR 1270	KOA 830	KGVO 1260	KDFN 1440	KSL 1130
KOBH 1370	11:00 a.m.	KDFN 1440	XEAF 990	4:45 p.m.	6:30 p.m.	KDFN 1440	10:45 p.m.
KVOD 920	KDFN 1440	KOY 1390a	12:20 p.m.	KIHO 1350 ²	KOBH 1370	8:45 p.m.	KSL 1130a
9:30 a.m.	11:10 a.m.	12:30 p.m.	2:00 p.m.	5:00 p.m.	KSL 1130	CKCK 1010	11:00 p.m.
KDYL 1290	KDYL 1290	CHAB 1200	2:30 p.m.	CKCK 1010	KTFI 1240	XEAF 990	KDYL 1290a
KGHF 1320	11:15 a.m.	CKCK 1010	KSL 1130 ²	KIHO 1350	KDFN 1440	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	KPKA 880	KDYL 1290	KDFN 1440	7:00 p.m.	9:15 p.m.	KTAR 620
KFXD 1200	11:50 a.m.	KFXD 1200	KIDO 1350	KSEI 900	KFBB 1280	KGVO 1260	
KSEI 900	KLO 1400	12:45 p.m.	KOY 1390	KTFI 1240	KFEL 920a	9:30 p.m.	
	Noon	CJRM 540	3:15 p.m.	5:45 ² p.m.	KIHO 1350	CJJC 690	
	KFEL 920a	KSL 1130	KGVO 1260				

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.	KFRC 610	KIT 1310	10:00 p.m.
KQW 1010	KFVD 1000	11:30 a.m.	KOOS 1390a	KYOS 1040	KGDM 1100	KLX 880	KFI 640a
7:15 a.m.	KWJJ 1040	CJAT 910	KVI 570	3:00 p.m.	KYOS 1040	7:45 p.m.	KFRC 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	KPPY 890	8:00 p.m.	KGA 1470
7:30 a.m.	KFPY 890	KHQ 590	KRNK 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.	KGIBU 900	10:10 p.m.
KIRO 710	9:15 a.m.	KIT 1310	1:00 p.m.	3:40 p.m.	CHOV 630	9:00 p.m.	KGFR 1360a
KJR 970	KGDM 1100	KNN 1050	KFRC 610 ²	KFAC 1300	KIRO 710	KGFFJ 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 950	1:15 p.m.	KGFR 1360	KPO 680	KJR 970a	10:45 p.m.
KWSC 1220	9:30 a.m.	KSFQ 560	KGFR 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 650	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	KFVD 1000	KFWB 950a	11:45 p.m.
KGA 1470	KFWB 950	KHSL 950	KIHSI 950	KGA 1470	KQW 1010	KSPQ 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.	NEMO 860	KFPY 890a	KFWB 950
KOL 1270	KJBS 1070	KFRC 610	KGDM 1100 ²	KHSL 950	KHSL 950	KLX 880	KNX 1050
8:30 a.m.	KQW 1010	KFVD 1000	KLX 880	KRNR 1500	6:15 p.m.	KVI 570 ²	1:00 a.m.
CKOY 630	10:15 a.m.	KGBU 900	2:15 p.m.	KWJJ 1040	KJR 970	9:45 p.m.	KGDT 900
KFRC 610	KFVD 1000	KIEM 1450	KGDM 1100	4:30 p.m.	KNX 1050	KIT 1310	
KIRO 710	10:20 a.m.	KIRO 710	2:30 p.m.	KIRO 710	6:30 p.m.	KOL 1270a	
KOIN 940	KLX 880	KJBS 1070	KIRO 710		KGBO 900	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 being 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 trouser 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 Foil

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 flut-tery-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 WEAJ, 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 WEAJ and was eminently successful. The announcer, who considers his assignment to cover Broadway's welcome to Lindberg 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 "Communtty 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 trouped 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 megs. but their actual frequency is 11.800. (COCX advises us they have no frequency assignment but work anywhere near 11-12 megs. 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 megs. 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 **9MI**. 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 **YV1RH** was heard after midnight on 6330 kcs. broadcasting a special program to the West Indies.



The Second Vice-President of the I.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 KBCD, 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.

THE MONTH'S CHANGES IN STATION DATA

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."

		NEW
790	.....	Pittsburg, Kans.
1050	WEAU	Eau Claire, Wis.
1200	.....	Huntsville, Ala.
	.....	Kingston, 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 1300
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	Veraacruz, 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	WCOL	Columbus, Ohio, new NBC
		DELETE
1160	NESL	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 WHCC 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 WFBB WGR WHCC WHK WIBX WICC WISN WJR WJSV WKBN WMAS WMBG WNAC WNBH WOC WREC WSMK WSPD WWA

B — Lowell Thomas
 CRCT KDKA KBAL 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 — Ames 'n' Andy
 KY WBNS WCAE WCSH WEAF WEI WFBR WGY WJAR WLW WRC WTAG WTIC

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 WFBB WGR WHAS WHCC WHK WIBX WICC WJAS WJSV WKRC WNAC WOC WOKO WORC WSMK

R — Uncle Ezra's Radio Station
 KPRC KTBS KTHS KVOO KYW WBAP WBEN WCAE WCKY WCSH WDAF WEAF WEEL WFBR WGY WHIO WIRE WJAR WKY WMAQ WOAI WOOD WOV WRC WTAG WTAM WTIC

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 WHCC WHK WHK WJAS WJR WJSV WKRC WLBZ WMBG WMBR WNAC WOKO WORC WQAM WTIC

B — Lum and Abner
 WBZ 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 WKRC WNAC

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Horace Heidt and Orchestra
 KDB KERN KFAB KFBK KFH KPYP KPRC 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 WNAW WOKO WREC WWL

R — Fibber McGee and Molly
 KSD KYW WBEN WCAE WCKY WSH WDAF WEAF WEEL WFBR WGY WHO WIRE WJAR WMAQ WOOD WOV WRC WTAG WTAM WTIC WWJ

B — Helen Hayes, Drama
 KDKA KOIL KSO KWK WABY WBAL WBZ WBZA WEBR WFBR WFIL 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 WFBL WGR WGST WHCC WHK WHP WICC WJAS WJR WJSV WKRC WLBZ WMAS WNAC WOKO WORC WSPD

R — Voice of Firestone
 CFCE CRCT KFYP KPRC KSD KSTP KTBS KVOO KYW WAVE WBEN WCAE WCCS WCSH WDAF WDAY WEAF WECB WEEL WFAA WPBC WFRB WFLA WGY WHO WHIO WIBA WIOD WIRE WIS WJAR WJAX WJDX WKY WMAQ WMC WOAI WOV WPTF WRC WRVA WSB WSM WSMB WSOC WTAG WTAM WTAR WTIC WTMJ WJZ WWNC

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 CKAC KDB KERN KFAB KFBK KPYP KPRC 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 WGST WHAS WHCC WHK WICC WISN WJAS WJR WJSV WKBW WKRC WLAC WNAC WNAW WOKO WORC WQAM WREC WWL

R — Warden Lawes, Prison Drama
 KDYL KFI KWG KHQ KOA KOMO KPO KPRC KSD KYW WBEN WCAE WCKY WCSH WDAF WEAF WGY WHO WIRE WJAR WMAQ WNAAC WOV WRC WTAM WTIC WWJ

B — Sinclair Greater Minstrels
 KDKA KDYL KFYP KOA KOIL KPRC KSO KSTP KTBS KTHS KVOO KWK WBAL WBZ WBZA WDAY WECB WFAA WFLA WGAR WHAM WIBA WIOD WIS WJAX WJDX WJZ WKY WLS WLW WMAL WMC WMT WOAI WPTF WREN WRVA WSB WSM WSMB WSOC WSUN WSYR WTAR WTMJ WNW 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 WBEN WCAE WCSH WDAF WDAY WEAF WECB WFAA WPBR WGY WHO WIBA WJAR WFLA WFLA WMAQ WOAI WOV WRC WTAG WTAM WTIC 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 KWG KHQ KOA KOMO KPO KPRC KSD KYW WBEN WCAE WCSH WDAF WEAF WEEL WFBR WFLA WGY WHO WIOD WIS WJAR WJAX WKY WMAQ WMC WOAI WOV

MONDAY (Continued)

WPTF WRC WRVA WSB WSM
WTAG WTAM WTAR WTC WWJ
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 KFBC KFPY
KFCR KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRNT
KSL KVI KWG WAAB WABC
WADC WBBM WBNS WBT WCAO
WCAU WCCO WDRC WEAN WFBL
WFMB 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 WFAF WFBC WFLA
WGY WIOD WIS WJAR WJAX
WNAC WPTF WSB WSOB WSUN
WTAG WTAR WTC WWNC

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

C — Goose Creek Parson

KDB KERN KFBC KFH KFPY
KFCR KGB KHJ KLRA KLZ KMJ
KOIN KOL KOMA KRLD KRNT
KSL KTRH KTSa KTUL KVI KWG
KWKH WBRW WCCO WFMB 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 WDRC WFBL WFEA
WHCC WHK WIBX WJAS WKBW
WKBW WLZ WMAS WOKO WORC
WPG WSBT WSPD

R — Amos 'n' Andy

KDYL KFI KGW KHQ KOA KOMO
KPO KPRC KSD WBAP WDAF
WHY WKY WLW WMC WOAI WOW
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 KFBC KFPY KFCR
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 WBRW WBT
WCAO WCAU WDAF WDBJ WDBO
WDNC WDOB WDRC WEAN WFBL
WBOB WFEA WGST WHAS WHCC
WHK WIBX WICC WJAS WJR
WJSV WKBW WKBW WKRC WLAC
WLZ WMAS WMBG WMBR WNOX
WOKO WORC WQAM WREC WSBT
WJS WSMK WSPD WTOC

C — Pick and Pat

KDB KERN KFBC KFPY KFCR
KFB KGKO KHJ KLRA KLZ KMJ
KMJ KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTUL KVI KWG
KWKH WACO WBRW WCCO WFMB
WHAS WLAC WREC

TUESDAY

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

C — News of Youth

WABC WADC WBNS WCAO WCAU
WDRC WEAN WFBL WHK WIBX
WICC WJR WKBN WLZ 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 Husing Sportcast

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

R — Voice of Experience

KDYL KFI KFYR KGW KHQ KOA
KOMO KPO KSD KSTP KYW WBEW
WCAE WCHS WDAF WDAY WFAF
WBEBC WEI WFBR WGY WHO
WIBA WJAR WLW WMAQ WOW
WRC WTAG WTAM WTC

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 WDRC
WEAN WFBL WFMB WGR WHAS
WHK WJAS WJR WJSV WKRC
WMAS WNAC WOKO WSPD

R — Leo Reisman and Orchestra

KFYR KPRC KSD KSTP KTBS
KVOO KYW WBAP WBEW WCAE
WCHS WDAF WDAY WFAF WEI
WFBR WFLA WGY WHO WIBA
WIOD WIS WJAR WJAX WJDX
WKY WLW WMAQ WOW WPTF
WRC WRVA WSOB WTAG WTAM
WTAR WTC 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 CROM KFAB KFH KLRA
KMBC KMOX KOMA KRLD KRNT
KSL KTRH KTSa KTUL WABC
WADC WBBM WBNS WBRW WBT
WCAO WCAU WCCO WDAE WDBJ
WDRC WEAN WFBL WFMB 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
KVOO KYW WAVE WBAP WBEW
WCAE WCKY WCHS WDAF WDAY
WFAF WBEBC WEI WFBR WGY
WHO WHIO WIBA WIRE WJAR
WJDX WKY WMAQ WMC WOAI
WOW WRC WSB WSM WSMB WTAG
WTAM WTC WTMJ WWJ

B — Edgar Guest, Welcome Valley

KDKA KOIL KSO KWK WBAL WJZ
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 KFH KGKO
KLRA KMBC KMOX KOMA KRLD
KRNT KSCJ KTRH KTSa KTUL
KWKH WABC WCAO WADC WALA
WBMM WBIG WBNS WBRW WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDOB WDRC WEAN
WFBL WFMB WFEA WGST WHAS
WHCC WHK WHI WHW WIBX
WICC WISN WJAS WJR WJSV
WKBW WKBN WKRW WKRC
WLAC WLZ WMAS WMBD WMBG
WMBR WMMN WNAC WNAX
WNBW WNOX WOC WOKO WORC
WOWO WPG WQAM WREC WSBT
WSFA WSJS WSPD WTOC WWL

R — Vox Pop; Sidewalk Interviews

KSD KYW WHEN WCAE WCKY
WCHS WDAF WFAF WEI WFBR
WGY WHO WHIO WIRE WJAR
WMAQ WOW WRC WTAG WTAM
WTC WWJ

B — Ben Bernie and Orchestra

KDKA KDYL KFI KFSD KFYR
KGW KHQ KOA KOIL KOMO KPO
KPRC KSO KSTP KTAR KTBS
KVoo KWK WAVE WBAL WBAP
WBLZ WBZA WDAY WEBC WFIL
WFLA WGAR WHAM WIBA WIOD
WIS WJAX WJDX WJZ WKY WLS
WLW WMAL WMC WMT WOAI
WPTF WREN WRVA WSB WSM
WSNH 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 KFBC KFH
KFPY KPRC KGB KGKO KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLD
KRNT KSCJ KSL KTRH KTSa
KTUL KVI KVOI KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRW WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDNC WDOB WDRC WEAN WFBL
WFMB WFEA WGST WHAS WHCC
WHK WHP WHW WIBX WICC
WJAS WJR WJSV WKBW WKBW
WKRC WLAC WLZ WMAS WMBD
WMBG WMBR WNAC WNAX
WNOX WOKO WORC WOWO WPG
WQAM WREC WSBT WSFA WSJS
WSPD WTOC WWL

R — Fred Astaire; Johnny Green

CRCT KDYL KFI KFYR KGW
KHQ KOA KOMO KPO KPRC KSD
KSTP KTBS KTBS KVoo KYW
WAVE WBAP WBEW WCAE WCKY
WCHS WDAF WDAY WFAF WBEBC
WEI WFBR WFLA WGY WHO
WHIO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSM WSNB WSOB WTAG
WTAM WTAR WTC WTMJ WWJ
WWNC

B — Husbands and Wives

KECA KEX KFSD KGA KGO KJR
KLO KOIL KSO KWK WBAL WJZ
WBZA WBRW 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
KSO KTBS KTHS KWK WAPI WAVE
WBAL WBAP WBZ WBZA WCKY
WENR WFIL WFLA WGAR WHAM
WIOD WIRE WIS WJAX WJDX
WJZ WKY WMAL WMC WMT WOAI
WPTF WREN WRVA WSB WSM
WSMB WSOB WSUN WSYR WTAR
WTNC WXYZ

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Dance Orchestra
CKAC WAAB WABC WADC WCAO
WCAU WDAB 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 WHT WCAU WCCO WDAE
WDBJ WDBO WDNC WIOD WDRC
WEAN WFBL WFBA WFEA WGST
WHAS WHCZ WHK WIBX WICC
WISN WJAS WJR WJSV WKBW
WKRC WLAC WLWZ WMAS WMBD
WMBG WMHR WNAX WNOX WOC
WOKO WORC WQAM WROC WSBT
WSJS WSMK WSPD WTNC

R — Leo Reisman and Orchestra
KDYL KFI KFYR KGHL KGIR
KGW KIQ KSA 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
KFCR KGB KHJ KLZ KMBC KMJ
KNXN KOIN KOL KRLL KRNT
KSL KVI KWG WABC WBBM
WBNS WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGR WHAS
WHCZ WHK WJAS WJR WJSV
WKRC WLAC WMBG WNAC WOKO
WTOC WWL

B — Follies de Paree
KDKA KOIL KSO KWK WBAL
WBZ WBZA WCKY WFIL WGAR
WHAM WHIO WIRE WJZ WJZ
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 WBEN WCAE
WCSH WDAF WDAY WFAF WNBC
WEEI WFAA WFSB WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WWSB WSOB
WSUN WTAG 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 KRLL KRNT KSCJ
KTRH KTSa KTUL KWKH WABC
WADC WBBM WBNS WBRc WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDRC WEAN WFBL WFBM
WFEA WGR WGST WHAS WHEC
WHK WHP WIBW WIBX WICC
WJAS WJR WJSV WKRC WLAC
WLWZ WMAS WMBD WMBG
WMBR WNAC WNAX WNOX WOKO
WORC WPG WQAM WREC WSPD
WVWL

R — Wayne King, See Tuesday

B — Ethel Barrymore, Drama
KDKA KOIL KSO KWK WBAL WBZ
WBA 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 KFCR KGB KGKO KGMB
KHJ KLRA KLZ KMBC KMJ
KNXN KOH KOIN KOL KOMA
KRLL KRNT KSCJ KSL KTRH
KTSa KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRc WBT
WCAO WCAU WCCO WCOA WDAE
WDBG WDBO WDNC WIOD WDRC
WEAN WFBL WFBM WFEA WGST
WHAS WHEC WHK WHP WIBW
WIBX WICC WISN WJAS WJR
WJSV WKHH WKBW WKRC WLAC
WLWZ WMAS WMBD WMBG
WMBR WNAC WNAX WNBFWNOX
WOC WOKO WORC WOWO WPG
WQAM WREC WSFA WSJS WSPD
WTOC WWL

R — Town Hall Tonight

KFYR KPRC KSD KSTP KTBS
KTHS KVOO KYW WAVE WBEN
WCAE WCSH WDAF WDAY WFAF
WNBC WEEI WFAA WFSB WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOW WPTF WRC WSB
WSM WSMB WSOB WTAG WTAM
WTAR WTIC WMJ 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 KFCR KGB KGMB KHJ
KLRA KLZ KMBC KMJ KNXN
KOIN KOL KOMA KRLL KRNT
KSL KTRH KTSa KTUL KVI KWG
KWKH WABC WBBM WBNS WBRc
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WEAN WFBL
WFBM WGST WHAS WHEC WHK
WICC WISN WJAS WJR WJSV
WKHW WKRC WLAC WLWZ 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 KFCR KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KRLL KRNT KSL KTRH
KTSa KTUL KVI KWG KWKH
WABC WACO WBBM WBNS WBRc
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDRC WEAN WFBL
WFBM WGST WHAS WHEC WHK
WICC WISN WJAS WJR WJSV
WKBW WKRC WLAC WLWZ WMBG
WMBR WNAC WOKO WORC WOWO
WQAM WREC WTOC WWL

R — Your Hit Parade

KDYL KEX KFI KFYR KGHL
KGIR KGU KGW KHQ KOA KOMO
KPO KPRC KSD KSTP KTAR
KTBS KTHS KVOO KYW WAVE
WCAE WCSH WDAF WDAY
WFAF WNBC WFEA WFSB WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAC WOAI WOW WPTF
WRC WRVA WSB WSM WSBM
WSOC WSUN WSYR WTAG WTAM
WTAR WTIC WMJ 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 WHT WCAO WCAU
WDAE WDBJ WDBO WDNC WDOI
WDRc WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WICC
WJAS WJR WJSV WKBW WKRC
WLAC WLWZ WMBG WMBR WNOX
WOKO WORC WQAM WREC WSPD
WTOC

C — Burns and Allen

KDB KERN KFBK KFPY KFCR
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KVOR 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
KFCR 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 KRLL KRNT
KTRH WABC WADC WBBM WBIG

THURSDAY (Continued)

WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDRG WEAN
WEEI WFBL WFBM WGR WGST
WHAS WHK WHP WIBC WJAS
WJR WJSV WKBN WKRC WLZB
WNAS WMBG WMBR WOC WOKO
WSPD WTOG WWL WVV

R — Rudy Vallee's Variety Hour
CFCH CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KSD
KSTP KTAR KYW WBBN WCAE
WCSH WDAE WDAY WFAE WBCB
WDEI WFBR 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 KOL KOMA KRLL
KRNT KSCJ KSL KTRH K TSA
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBGM WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOO WDRG WEAN
WFBL WFHM WFLA WGST WHAS
WICC WISN WJAS WJR WJSV
WKBN WKRW WKRC WLAC WLZB
WNAS WMBD WMBG WMBR
WMMN WNAC WNAX WOC WOKO
WORC WOWO WPG WQAM WREC
WSPA WSJS WSPD WTOG WWL

R — Maxwell House Show Boat

KDYL KFI KFSB KFYR KGH
KGIR KWK KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTBS
KYW WAPI WAVE WBPB WBBN
WCAE WCSH WDAE WDAY WFAE
WBCB WDEI WFBR WFLA WGY
WHO WHIO WIBA WIOD WIRE WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSAI WSB WSM WSBM
WSOC WTAG WTAM WTAR WTIC
WTMJ WWJ WWNC

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
K TSA KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBBM WBGM WBNS WBRC WBT
WCAO WCAU WCCO WCOA WDAE
WDBJ WDBO WDNC WDOO WDRG
WEAN WEEI WFBL WFBM WFLA
WGST WHAS WLEC WHK WHP
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBN WKRW WKRC
WLAC WLZB WNAS WMBD WMBG
WMBR WMMN WNAX WNOX WOC
WOKO WORC WOWO WPG WQAM
WREC WSBT WSPA WSJS WSMK
WSPD WTOG WWL

R — Bing Crosby; Bob Burns

CFCH CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KVOR KYW WAVE WBPB WBBN
WCAE WCSH WDAE WDAY WFAE
WBCB WDEI WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ

WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSBM WSOC
WTAG WTAM WTAR WTIC WTMJ
WWJ WWNC

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 KOL KOMA KRNT KSL KVI
KWG WABC WBBM WBNS WCAO
WCAU WCCO WDRG WEAN WEEI
WFBL WFBM WGST WHAS WHEC
WHK WJAS WJR WJSV WKRW
WKRC 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
WKRW WLZB WNAS 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 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 — Broadway Varieties

KDB KERN KFAB KFBB KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL 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 WNAS WMBG
WNAC WOKO WWL

R — Cities Service Concert

CRCT KFYR KOA KPRC KSD
KSTP KTBS KTHS KVOR KYW
WBPB WBBN WCAE WCSH WDAE
WDAY WFAE WBCB WDEI WFAA
WFBM WGY WHO WHIO WIBA
WIOD WJAR WKY WMAQ WOAI
WOW WRC WRVA WSAI WTAG
WTAM WTIC WTMJ WWJ

E — Irene Rich; Drama

KDKA KDYL KFI KGW KHQ KOLL
KOMO KPO KSO KTAR KWK WAVE
WBAL WBZ WBZA WCKY WFLA
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

E — Singin' Sam

KDKA KOIL KSO KWK WBAL
WBZ WIZA 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 KGMB
KHJ KLRA KLZ KMBC KMJ KMON
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH K TSA
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBGM WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOO WDRG WEAN
WFBL WFBM WFLA WGST WHAS
WHK WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBN WKRC WLAC WLZB WNAS
WMBD WMBG WMBR WNAC
WNAX WNBW WNOX WOC WOKO
WORC WOWO WPG WQAM WREC
WSPA WSJS WSMK WSPD WTOG
WWL

B — Death Valley Days

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

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

C — Hollywood Hotel

CFRB CKAC KDB KERN KFAB
KFBB KFH KFPY KFRC KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KOIN KOL KOMA KRLL KRNT
KSCJ KSL KTRH K TSA KTUL KVI
KVOR KWG KWKH WABC WADC
WBBM WBNS WBRC WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDRG WEAN WFBL WFBM WFLA
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WJAS WJR
WJSV WKBN WKRC WLAC WLZB
WNAS WMBD WMBG WMBR
WNAC WNAX WNOX WOKO WORC
WPG WQAM WREC WSPD WWL

R — Frank Munn; Bernice Claire

KSD KYW WBBN WCAE WCSH
WDAE WFAE WDEI WFBM WGY
WJAR WLW WMAQ WOW WRC
WTAG WTAM WWJ

B — Fred Waring

KDKA KDYL KFYR KOA KOLL
KPRC KSO KSTP KTBS KWK
WAPI WAVE WBAL WCBZ WBZA
WDAY WBCB WFAA WFIL WFLA
WGAR WHAM WIBA WIOD WIS
WJAX WJDX WJZ WKY WIS WLW
WMAL WMC WMT WOAI WOOD
WPTF WREN WRVA WSB WSM
WSBM WSOC WSUN WSYR WTAR
WTMJ WWNC WXYZ

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

R — True Story Court

KSD KYW WBBN WCAE WCSH
WFAE WDEI WFBM WGY WHO
WHIO WJAR WMAQ WOW WRC
WTAG WTAM WTIC WWJ

B — Rosemarie Brancato; Helen Claire

KDKA KPCA KPSD KFYR KGA
KGH KGI KJR KLO KOLL
KPRC KSO KSTP KTAR KTHS
KTHS KWK WABY WAPI WAVE
WBAL WBCB WBZA WCKY WCSO
WDAY WFBM WFBM WENR WFAA
WFBM 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 WWNC
WXYZ

FRIDAY (Continued)

E-10:00 p.m., C-9:00, M-8:00, P-7:00
R — First Nighter; Drama
 KDYL KFI KFYR KGW KHQ KOA
 KOMO KPO KPRC KSD KSTP
 KTBS KTHS KYW WAVB WBNB
 WCAE WCEH WDAF WDAY WFAF
 WEBC WEBC WFPA WFRB WFLA
 WGY WHO WJRA WIOD WIS WJAX
 WJAN WJDX WKY WLW WMAQ
 WMC WPTF WRC WRVA WSB
 WSM WSMB WSOC WTAG WTAM
 WTRAR WTTIC WTAMJ WWJ WWNC

B — Your Radio Guide
 CRCT KDKA KOIL KSO KWK
 WBAL WBZ WBZA WENR WFIL
 WGAR WHAM WIRE WJZ WMAL
 WMT WREN WSYR WXYZ

E-10:30 p.m., C-9:30, M-8:30, P-7:30
R — "Red" Grange, Football
 KDYL KFYR KOA KPRC KSD
 KSTP KTBS KYW WAVE WBNB
 WCAE WCKY WCSH WDAF WDAY
 WFAF WEBC WEBC WFPA WFRB
 WFLA WGY WHIO WIBA WIOD
 WIRE WIS WJAR WJAX WJDX
 WKY WMAQ WMC WOAI WOW
 WPTF WRC WRVA WSB WSMB
 WSOC WTAG WTAM WTRAR WTTIC
 WTMJ WWJ WWNC

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 KSGJ WAAB
 WABC WADC WALA WBNS WBRC
 WBT WCAO WCAU WDAE WDBJ
 WDHO WDNC WDOF WDRC WFBL
 WFEA WGST WHC WHK WIBX
 WISN WJAS WJR WKBW WLAC
 WLBB WMAS WMBD WMBG
 WMBR WNAK WNOX WOC WOKO
 WORC WQAM WRC WSBT
 WSJS WSMK WSPD WTC

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
 KGB 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 KFBK KFH KGB KLZ
 KMBC KNOW KOH KRLL KSL
 KTRH KTSB KVAOR KWKH WABC
 WACO WADC WALA WBNS WCAO
 WDAE WDBJ WDHO WDNC WDRC
 WEBC WFBL WFBM WFEA WHAS
 WHC WHK WIBX WICC WJAS
 WLBB 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 KFYR KOA KPRC KSD
 KSTP KTBS KYW WAVE WBNB
 WCAE WCKY WCSH WDAF WDAY
 WFAF WEBC WEBC WFPA WFRB
 WFLA WGY WHIO WIBA WIOD
 WIRE WIS WJAR WJAX WJDX
 WKY WMAQ WMC WOAI WOW
 WPTF WRC WRVA WSB WSMB

WSOC WTAG WTAM WTRAR WTTIC
 WTMJ WWJ WWNC

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 KPRC
 KLRA KMBC KNOX KOMA KRNT
 KTRH KTSB KTUL KWKH WABC
 WBBM WBNS WBRB WBT WCAO
 WCAU WCCO WDAE WDBJ WDHO
 WDRC WEAN WFBL WFBM WGR
 WGST WHAS WHC WHK WHP
 WICC WISN WJAS WJR WJSV
 WKRC WLAC WLBB WMBG WMBR
 WNAK WOKO WORC WQAM WRC
 WTC WWL

R — Saturday Night Party
 KSD KYW WAPI WAVE WBNB
 WCAE WCSH WDAF WFAF
 WFRB WFLA WGY WHO WIOD
 WIS WJAR WJAX WJDX WMAQ
 WMC WNAK WOW WPTF WRC
 WSB WSMB WSOC WSUN WTAG
 WTAM WTRAR WTTIC WWJ WWNC

B — 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
 KFPY KPRC KGB KHJ KLZ
 KMBC KNJ KMOX KOIN KOL
 KOMA KRLL KRNT KSL KTRH
 KTSB KTUL KVI KWG WABC
 WBBM WBRB WBT WCAO WCAU
 WCCO WDAE WDBJ WDHO WDRC
 WEAN WFBL WFBM WGR WGST
 WHAS WHC WHK WISN WJAS
 WJR WJSV WKRC WLAC WMBG
 WMBR WOKO WORC WQAM WRC
 WWL

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Floyd Gibbons; Vincent Lopez

KDB KERN KFAB KFBK KFPY
 KPRC KGB KHJ KLRA KLZ KMBC
 KNJ KMOX KOIN KOL KOMA
 KRLL KRNT KSL KTRH KTSB
 KVI KWG WABC WBBM WBNS
 WBT WCAO WCAU WCCO WDAE
 WDHO WDRC WEAN WFBL WFBM
 WGST WHAS WHK WISN WJAS
 WJR WJSV WKBW WKRC WMBR
 WOKO WQAM WRC WSBT WWL

R — Snow Village Sketches
 KSD KYW WBNB WCAE WCSH
 WDAF WFAF WFRB WGY WJAR
 WMAQ WNAK WOW WRC WTAG
 WTAM WTTIC WWJ

B — National Barn Dance
 KDKA KOIL KPRC KSO KTBS
 KTHS KWK WABY WAPI WAVE
 WHAL WHAP WBZ WBZA WFIL
 WFLA WGAR WHAM WIOD WIRE
 WIS WJAX WJDX WJZ WKY WLS
 WIAL WMC WMT WOAI WOOD
 WPTF WREN WRVA WSB WSMC
 WSOC WSUN WSYR WTRAR WTTIC
 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
 KFPY KPRC KGB KGKO KHJ
 KLRA KLZ KMBC KNJ KMOX
 KOIN KOL KOMA KRLL KTRH
 KTSB KTUL KVI KWG KWKH
 WALA WBBM WBG WBNS WBRB
 WBT WCAO WCOA WDAE WDHO

WDDO WEAN WFBL WFBM WGST
 WHAS WHC WHK WHK WJAS WJR
 WJSV WKBW WLAC WMBD WMBR
 WNOX WOC WQAM WRC WSBFA
 WSPD WTCO WWL WWVA

R — Shell Chateau
 KDYL KFI KPSD KFYR KGHL
 KGIR KGW KHQ KOA KOMO KPO
 KSD KSTP KTRAR KYW WBNB
 WCAE WCSH WDAF WDAY WFAF
 WEBC WEBC WFBM WGY WIBA
 WJAR WLW WMAQ WOW WRC
 WTAG WTAM WTTIC WTMJ WWJ

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Your Hit Parade

KERN KFAB KFBK KFH KFPY
 KPRC KGB KGKO KGMR KHJ
 KLRA KLZ KMBC KNJ KMOX
 KOH KOIN KOL KOMA KRLL
 KRNT KSCJ KSL KTRH KTSB
 KTUL KVI KVOR KWG KWKH
 WABC WACB WADC WALA WBBM
 WBG WBNS WBRB WBT WCAO
 WCAU WCCO WCOA WDAE WDBJ
 WDHO WDNC WDDO WDRC WEAN
 WFBL WFBM WFEA WGST WHAS
 WHC WHK WHP WIRW WIBX
 WICC WISN WJAS WJR WJSV
 WKRV WKRC WLAC WLBB WMAS
 WMBD WMBG WMBR WNAK
 WNAK WNOX WOC WOKO WORC
 WPG WQAM WRC WSBT WSBFA
 WSJS WSPD WTCO WWL WWVA

E-10:30 p.m., C-9:30, M-8:30, P-7:30
R — Ervin S. Cobb

KDYL KFI KFYR KGHL KGIR
 KGW KHQ KOA KOMO KPO KPRC
 KSD KSTP KTRAR KTBS KTHS
 KVOO KYW WAVE WBAP WBNB
 WCAE WCSH WDAF WDAY WFAF
 WEBC WFRB WFLA WGY WIBA
 WIOD WIS WJAR WJAX WJDX
 WKY WMAQ WMC WNAK WOOD
 WOW WPTF WRC WRVA WSB
 WSMB WSOC WSUN WTAG WTAM
 WTRAR WTTIC WTMJ WWJ WWNC

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

CFRB CKAC KFH KGKO KLRA
 KLZ KMBC KMOX KOMA KRLL
 KSCJ KSL KTRH KTSB KVLH
 KWKH WABC WACO WADC WALA
 WBBM WBNS WBRB WBT WACO
 WCAU WCCO WDAE WDBJ WDHO
 WDNC WDDO WDRC WFBL WFBM
 WFEA WGST WHAS WHC WHK
 WIBX WIRC WISN WJAS
 WJR WJSV WKBW WKRC WLAC
 WLBB WMAS WMBD WMBR
 WMBR WNAK WNOX WOC WOKO
 WORC WQAM WRC WSBT WSJS
 WSMK WSPD WTCO

B — National Barn Dance
 KDYL KFI KPSD KFYR KGHL
 KGIR KGU KGW KHQ KOA KOMO
 KPO KSTP KTRAR WDAY WEBC
 WIBA WLW WTMJ

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

CFRB CKAC KFH KGKO KLRA
 KLZ KMBC KMOX KOMA KSL
 KTRH KTSB KVAOR KWKH WABC
 WACO WADC WALA WBNS WBBM
 WBT WCAO WCAU WDAE WDBJ
 WDHO WDNC WDDO WDRC WEAN
 WFBL WFBM WFEA WGST WHAS
 WHC WHK WIBX WIRC WICC
 WJAS WJR WKBW WKRC WLAC
 WLBB WMAS WMBG WMBR WNOX
 WOKO WORC WQAM WRC WSBT
 WSJS WSMK WSPD WTCO

SUNDAY

E-11:30 a.m., C-10:30, M-9:30, P-8:30
C — Major Bowes' "Family"
 CFRB KERN KFAB KFBB KFBK
 KFH KFPY KFRC KGB KGVO
 KMBC KOH KOI KRLL KSL KTRH
 KTSB KVI KVOR KWG KWKH
 WABC WACO WADC WALA WBNS
 WBZ WCAO WCCO WDAE WDBJ
 WDBO WDNB WESG WFBL WFEA
 WHAS WHK WIBX WJAS WJR
 WKRC WLWZ WMBD WMBR
 WMMN WOC WOKO WORC WPG
 WQAM WSBT WSJS WSPD WTOC

E-12:30 p.m., C-11:30 a.m., M-10:30, P-9:30
C — Salt Lake Tabernacle Choir
 CFRB KFAB KFBB KFBK KFH
 KFPY KFRC KGB KIZ KOH KOI
 KRLL KSL KTRH KTSB KVI
 KVOR KWG WABC WACO WADC
 WALA WBIG WBNS WBRB WCAO
 WCCO WDAE WDBJ WDBO WESG
 WFBL WFEA WGR WHAS WICC
 WJAS WJR WKRC WLWZ WMBR
 WMMN WOC WOKO WORC WQAM
 WSBT WSJS WSPD WTOC

B — Radio City Music Hall
 CFBC CRCT KDKA KDYL KFI
 KFJR 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 KRLL KSCJ KTRH
 KTSB KVOR WABC WACO WADC
 WALA WBIG WBRB WCAO WCAU
 WCCO WDAE WDBJ WDBO WDRB
 WEAN WESG WFBL WFBM WFEA
 WGR WHAS WIBX WJAS WJSV
 WKBN WLAC WLWZ WMBD WMBR
 WNAC WOC WOKO WORC WPG
 WQAM WREC WSJS WSMK WSPD
 WTOC WWL

E-1:00 p.m., C-12:00, M-11:00, P-10:00
C — Church of the Air
 KFBK KFH KFPY KFRC KGB
 KHJ KMOX KOH KOI KOMA KRLL
 KRNT KSCJ KSL KTRH KTSB
 KVI KVOR KWG WABC WALA
 WBNS WBT WCAO WCCO WDAE
 WDBJ WDBO WDRB WESG WFBL
 WFBM WGR WHAS WIP WIBX
 WJAS WJSV WKBN WKRC WLAC
 WLWZ WMBR WNBW WOC WOKO
 WORC WPG WQAM WREC WSBT
 WSJS WSPD WTOC WWVA

E-2:00 p.m., C-1:00, M-12:00, P-11:00
C — Pittsburgh Symphony
 KFAB KLRA KLZ KMBC KMOX
 KOMA KRLL KRNT KTRH KTSB
 KTUL KWKH WABC WADC WBBM
 WBNS WBRB WBT WCAO WCAU
 WCCO WDAE WDBJ WDBO WDRB
 WEAN WFBL WFBM WGST WHAS
 WHEC WHK WIBX WISN WJAS
 WJR WJSV WKBW WKRC WLAC
 WMBG WMBR WMMN WNAC
 WNOX WOC WOKO WQAM WREC
 WTOC WWL

B — Magic Key of RCA
 CFBC CRCT KDKA KDYL KFI
 KFJR KGO KGW KHQ KOA KOIL
 KOMO KPO KPRC KSO KSTP

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

E-3:00 p.m., C-2:00, M-1:00, P-12:00
R — Metropolitan Auditions
 CFBC KDYL KFI KFJR KGW KHQ
 KOA KOMO KPO KSD KSTP KTAR
 KYW WAPI WAVE WBNB WCAE
 WCKY WCSH WDAF WDAY WEAF
 WEBC WFBW WGY WHO WIBA
 WJAR WJDX WMAQ WNAO WOV
 WRC WSAI WTAG WTAM WJZ

E-3:30 p.m., C-2:30, M-1:30, P-12:30
R — Grand Hotel; Drama
 KDYL KFI KFJR KGW KHQ KOA
 KOMO KPO KSD KSTP KYW
 WBNB WCAE WCSH WDAF WDAY
 WEAF WEBC WFBW WGY WHO
 WIBA WJAR WMAQ WNAO WOV
 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 WDDO
 WDRB WEAN WEEI WESG WFBL
 WHAS WHEC WHK WHP WIBX
 WJAS WJR WKBW WKRC WLAC
 WLWZ WMAS WMBG WMMN
 WNOX WOKO WORC WOVO WQAM
 WREC WSMK WSPD WWL WWVA

R — Marion Talley, Soprano
 KDYL KFI KFJR KGW KHQ KOA
 KOMO KPO KSTP KYW WBNB
 WCAE WCKY WCSH WDAF WDAY
 WEAF WEBC WFBW WGY WHIO
 WIBA WIRE WJAR WMAQ WNAO
 WOV WRC WTAG WTAM WTIC
 WTMJ WWJ

B — We, The People; Phil Lord
 KDKA KECA KEX KFSD KGA
 KGHZ KGIR KGO KJR KLO KOI
 KPRC KSO KTBS KTHS KVOO
 KWK WABY WAPI WAVE WBAL
 WBAP WBZ WBZA WGBR 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 WTAZ 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
 WAAR WABC WBNS WCAO WCAU
 WDRB WEAN WFBL WFBM WGR
 WHAS WHEC WHK WIBX WICC
 WJR WJSV WMAS WOKO WORC
 WSPD WWVA

R — Smiling Ed McConnell
 KDYL KFI KFJR KGIR KGW KHQ
 KOMO KPO KSTP KYW WBNB
 WCAE WCSH WDAF WDAY WEAF
 WEBC WFBW WGY WHO WIBA
 WJAR WLW WMAQ WNAO WOV
 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 KFBB KFBK
 KFRC KGB KHJ KLZ KMBC KMJ
 KMOX KOIN KOI KOMA KRLL
 KSL KTRH KTSB KVI KWG WABC
 WBBM WBNS WBT WCAO WCAU
 WCCO WDAE WDRB WEAN WFBL
 WFBM WGST WHAS WHEC WHK
 WJAS WJR WJSV WKBW WKRC
 WMBG WMBR WOKO WQAM WWL

E-6:30 p.m., C-5:30, M-4:30, P-3:30
C — Rubineff and His Violin
 KDB KERN KFAB KFBB KFBK
 KFH KFPY KFRC KGB KGKO KHJ
 KLRA KLZ KMJ KMOX KOH KOIN
 KOI KOMA KRLL KRNT KSCJ
 KSL KTRH KTSB KTUL KVI KVOR
 KWG KWKH WABC WACO WADC
 WALA WBBM WBIG WBNS WBRB
 WBT WCAO WCAU WCCO WCOA
 WDAE WDBJ WDBO WDNB WDDO
 WDRB WEEI WFBL WFBM WFEA
 WGST WHAS WHEC WHK WHP
 WIBW WIBX WISN WJAS WJR
 WJSV WKBW WKBW WKRC WLAC
 WLWZ WMAS WMBD WMBG
 WMBR WNAK WNOX WOC WOKO
 WORC WPG WQAM WREC WSBT
 WSA WJS WSMK WSPD WTOC
 WWL WWVA

R — A Tale of Today
 WBNB WEAF WGY WJAR WMAQ
 WOV WRC WTAM

E-7:00 p.m., C-6:00, M-5:00, P-4:00
R — Jack Benny; Mary Livingstone
 KSD KYA KYW WBNB WCAE
 WCSH WDAF WEAF WFBW WGY
 WHO WJAR WLW WMAQ WNAO
 WOV 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 KRLL KTRH KTSB
 KTUL KWKH WABC WACO WADC
 WALA WBIG WBNS WBRB WBT
 WCAO WCAU WCOA WDAE WDBJ
 WDBO WDNB WDDO WDRB WEAN
 WFBL WFBM WFEA WGR WGST
 WHAS WHEC WHK WHP WIBX
 WICC WJAS WJR WJSV WKBW
 WKRC WLAC WLWZ WMAS WMBR
 WNAO WNOX WOKO WORC WQAM
 WREC WSBT WSA WJS WSMK
 WSPD WTOC WWL WWVA

R — Fireside Recitals
 KSD KYW WBNB WCAE WCSH
 WDAF WEAF WFBW WGY WHO
 WIRE WJAR WMAQ WOV 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 WAOI 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
 CFBC CRCT KSD KYW WBNB
 WCAE WCSH WDAF WEAF WFBW
 WGY WHO WHIO WIRE WJAR
 WLW WMAQ WOAI WOOD WOV
 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 KFH
KFPY KFRC KGB KIJ KLRA KILZ
KMBC KMJ KMOX KOIN KOL
KOMA KRLL KRNT KSCJ KSL
KTRH K TSA KTUL KWKH WABC
WADC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCAU WCCO
WDAE WDBT WDBO WDOU WDRC
WEAN WFBL WFBM WFEA WGR
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBN WKRC WLAC
WLBZ WMAA WMBD WMBR
WNAX WNOX WOC WOKO WORC
WQAM WREB WSBT WSPA WSMK
WTOC WWL WWVA

R—Good Will Court

CPCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTAR KTBS KTHS
KV00 KYW WAPI WAVE WBBN
WCAE WCHS WDAF WDAY WEAF
WEBC WFAA WFBR WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WNAC WOAI WOW WPTF
WRC WRVA WSB WSM WSMB
WSOC WSUN WTAG WTAM WTAR
WTIC WTMJ WWJ WWNC

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

C—Eddie Cantor; Bobby Green

KFAB KFH KGKO KLRA KMBC
KMOX KOA KRLL KRNT KSCJ
KTRH K TSA KTUL KWKH WABC
WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WCOA WDAE WDBJ WDBO
WDNC WDOU WDRG WEAN
WFBL WFBM WFEA WGR WGST
WHAS WHEC WHK WHP WIRW
WIBX WICC WISN WJAS WJR
WJSV WKBN WKRC WLAC WLBZ
WMAA WMBD WMBR WMIN
WNAX WNOX WOC WOKO WORC
WQAM WREB WSBT WSPA WSSJ
WSMK WSPD WTOC WWL WWVA

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

R—Manhattan Merry-Go-Round

CPCF CRCT KDYL KFI KFYR
KHQ KOA KOMO KPO KPRC KSD
KSTP KTBS KTHS KYW WAVE
WBBN WCAE WCKY WCHS WDAF
WDAY WEAF WBCB WFEA WFLA
WFBR WFLA WGY WHO WHIO

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

C—Ford Sunday Evening Hour

CFRB CKAC KDB KERN KFAB
KFBK KFH KFPY KFRG KGB
KGKO KIJ KLRA KILZ KMBC
KMJ KMOX KOH KOIN KOL KOMA
KIRLD KRNT KSCJ KSL KTRH
K TSA KTUL KVI KVOR KWG
KWKH WABC WACO WADC WALA
WBBM WBIG WBNS WBRC WBT
WCAO WCAU WCCO WCOA WDAE
WDBJ WDBO WDNC WDOU WDRG
WEAN WFBL WFBM WFEA WGR
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WISN WJAS
WJR WJSV WKBN WKRC WLAC
WLBZ WMAA WMBD WMBR WNAC
WNAX WOC WOKO WORC WQAM
WREB WSBT WSPA WSSJ WSPD
WTOC WWL WWVA

B—Walter Winchell

KDKA KECA KEX KFSD KGA
KGHL KGIR KGO KJR 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 KJR 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

CPCF CRCT KDYL KFI KFYR
KGW KHQ KOA KOMO KPO KPRC
KSD KSTP KTBS KYW WAPI
WAVE WBBN WCAE WCHS WDAF
WDAY WEAF WEBC WFEA WFLA
WFBR WFLA WGY WHO WHIO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WMAQ WMC WOAI
WOW WPTF WRC WRVA WSAI
WSB WSM WSMB WSOC WTAG
WTAM WTAR WTMJ WWJ WWNC

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 KFH KFPY KFRC
KGB KGKO KGMB KGVO KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KOMA KRLL
KRNT KSCJ KSL KTRH K TSA
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRC WBT WCAO
WCAU WCCO WCOA WDAE WDBJ
WDBO WDNC WDOU WDRG WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WISN WJAS WJR WJSV
WKBN WKBW WKRC WLAC WLBZ
WMAA WMBD WMBG WMBR
WMIN WNAC WNAX WNOX WOC
WOKO WORC WOW WPG WQAM
WREB WSBT WSPA WSSJ WSMK
WSPD WTOC WWL

R—General Motors Concert

CPCF CRCT KDYL KFI KFYR
KGHL KGIR KGW KHQ KOA
KOMO KPO KPRC KSTP KTAR
KTBS KTHS KYW WAPI WAVE
WBBN WCAE WCKY WCHS WDAF
WDAY WEAF WBCB WFAA WFBR
WFLA WGY WHO WHIO WIBA
WIOD WIRE WIS WJAR WJAX
WJDX WKY WMAQ WMC WNAC
WOAI WOOD WOW WPTF WRC
WRVA WSB WSM WSMB WSOC
WSUN WTAG WTAM WTAR WTIC
WTMJ WWJ WWNC

B—Edwin C. Hill

KDKA KECA KFSD KGA KGHL
KJR KLO KOIL KSO KWK WBAI
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; Morin Sisters

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

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

B—Walter Winchell

KDYL KFI KFSD KGHL KGIR
KGW KHQ KOA KOMO KPO KPRC
KTAR KTBS KTHS WAPI WAVE
WBAP 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 KJR
KPRC KTBS KTHS WAPI WAVE
WBAP 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 Heidt, 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 Sanello, 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 Warinc, 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
 Ainos '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, 10:30 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
 Retiree 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
 Carborandum Band, 7:30 p.m. Sat., C

Cavalcade of America, 8 p.m. Wed., C
 Chesterton 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 H.C.A., 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 Ballou, 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
 Charioteers, 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
 Phil D'Orsay, 8 p.m. Wed., B
 Jessica Dragonette, 8 p.m. Fri., R
 Phil Duesy, 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
 Martin 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 Rea, 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 Smitth, 5 p.m. Sun., C
 Marion Talley, 10 p.m. Fri., R
 Franca 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 Thorzersen, 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)

11BZ 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 600-163
 Sun. 130-1630 EST

560 (535.4)

11PA 4. Palermo, I. (565)
 MTCY 100. Hsinking, Meh.
 RW41 1.2 Syktyvkar, USSR. (563)
 RW42 10. Gorki, USSR. (565)
 XGOG 10. Chengtu, China.
 XLHB .045 Shanghai, China.
 ZUG 10. Grahams town, S. Af.
 6WA 10. Minding, Ausl.
 60. Athlone, IFS (563)
 Radio Atha Luain.
 Daily 830-1800 EST
 10. Klaipeda, Lithuania (Memel)

570 (526)

CB57 5. Santiago, Chile, Soc. Nacional Agricultra
 RW68 10. 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. Talchu, 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.
 15. Grenoble, F. (583)
 Daily 200-1730 EST

590 (508.2)

JOAK1 150. Tokyo, Japan
 JOAK2 10. Tokyo, Jap. M.
 Tomabecio, EST.
 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
 XHKB .1 Tsingtao, China.
 7ZL 1. Hobart, Ausl.
 Elizabeth St. Mon. to Fri. 830-1030; 1200-1530; 1630-1800; 1900-100; Sat. 830-1000; 1230-1300; Sun. 1200-300; 1630-1830; 1915-2400
 120. Vienna, Aust. (592)
 Wein No. 1, Johannesgrasse No. 4B.
 Daily 310-1900 EST

600 (499.7)

CNR 25. Rabat, Mor. (601)
 Radio Maroc, Office Cherifien des Postes et Telegraphes.
 Noumea, New Caledonia.
 FJP .5 Miyazaki, Japan (CP)
 JONG .5 Porto Alegre, Brz. (now building)
 PRH2 25. Frounze, USSR. (608)
 RW82 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
 11FI 20. Florence, I. EIAR
 Stazione di Firenze.
 Weekdays 130-1730;
 Sun. 310-1730 EST
 Seoul. Ko.
 JODK2 10. Manila, P. I. (618.5)
 Daily 600-2300
 KZRM 50. Pratlgorok, USSR
 RW18 1. Oufa, USSR. (617)
 RW22 10. Oust Abakansk, USSR (617)
 RW50 2.5 Murmansk, USSR.
 RW79 10.

XGSS .015 Tsunshi, Chn.
 2FC 3.5 Sydney, Ausl.
 96 Market St. Mon. to Fri. 830-930; 1100-1300; 1330-1530; 1630-1745; 1900-100; Sat. 830-930; 1100-1830; 1900-100; Sun. 1130-1345; 1630-1815; 1930-2400

620 (483.6)

CB62 1. Santiago, Chl.
 Radio Chilena.
 CT1AA 20. Lisbon, Por. (629)
 Emisora Nacional.
 Daily 700-1900 EST
 JOTK .5 Matsuye, 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
 Akita, J. (645)
 JOKU .3 Petrozavodsk, USSR. (648)
 RW29 10. Penza, USSR.
 RW56 1.2 Shanghai, China.
 XLHG .1 Lyons, F. (648). La Doua (testing)
 YN 90. 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

		Brdcstg. Com., P. O. Box 200.			
ZTJ	10.	Johannesburg, S. Af. (645)	RW46	1.2	Karaganda, USR. (686.5)
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	RW71	1.2	Petrovavlovsk, USR. (689)
650 (461.3) 					
CX6	10.	Montevideo, Uru. Estacion Oficial, Martin Fierro 2603. 12-14; 17-23	RW74	1.2	Tcheboksary, USR. (689)
JOCG	.3	Asahigawa, J. (655) Pres. NBC, Hokkaido Asahikawa Branch, EST Daily 11 p.m.-7:30 a.m.	.....	2.5	Belgrade, Yug. (686)
JQAK	.5	Dairen, Mnch. (652)	.....	1.5	Salisbury, S. Af. (681.9)
1YA	10.	Auckland, N. Z. Karangahape Rd. Mon. to Sat. 7-9; 10-23; Sun. 9-1215; 13-1630; 18-22	690 (434.5) 		
.....	100.	Cologne, G. (658) Dagoberlstrabe No. 38 Daily 0000-1800 EST	CX8	.5	Montevideo, Uru. Ramon Puyal, Caigua 3710
660 (454.3) 					
XGOA	75.	Nanking, Chn.	LV6	.5	Mendoza, Arg. Radio Prov. de Mendoza.
RW38	2.	Alexandrovsk USR. (662)	XGOY	.25	Kunming, China.
7BU	.05	Burnie, Ausl.	6WF	3.5	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
.....	20.	Jerusalem, Pal. (668)	.....	120.	Paris, F. (695) FPTT Daily 300-1800 EST
.....	70.	Manchester, G. B. (668) North Regional Weekdays 515-1900; Sun. 730-1745 EST	700 (428.3) 		
670 (447.5) 					
JFAK	10.	Taihoku, For.	JOKK	.5	Okayama, J.
LS4	7.	Buenos Aires, Arg. Radio Portena, Belgrano 1841	PRA7	.05	Sao Paulo, Brz., Rua Tibirica 26 (706)
MTFY	3.	Harbin, Mnch. (674)	RW48	2.5	Elista, USR. (704)
RW23	1.	Groznyl, USR. (676)	SBA	55.	Stockholm, Swe. (704) Weekdays 145-1700; Sun. 3-17 EST
YV6RV	.35	Valencia, Vnz.	VPB	1.75	Colombo, Cey. (705)
2CO	7.5	Corowa, Ausl. Relays 3LO 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	XMHC	.5	Shanghai, Chn.
.....	100.	Sottens, Swi. (677) Report to PTT Berne, Speicherstrasse No. 6, Weekdays 630-1630; Sun. 355-1630 EST	ZP15	.....	Villarrica, Par.
680 (440.9) 					
CB68	1.	Valparaiso, Chile.	2NR	7.	Grafton, Ausl.
CW27	.25	Salta, Uruguay. Ernesto Popelka	710 (422.3) 		
HJN	.5	Bogota, Col. (681)	IIRO	50.	Rome, I. (713) Weekdays 130-1730; Sun. 335-1730 EST
JOLK	.5	Fukuoka, J.	JOJK	3.	Kanazawa, J.
JOVK	.5	Hakodate, J.	LS1	5.	Buenos Aires, Arg. Radio Municipal, Teatro, Colon
LKD	.5	Bodo, Nor. (686)	RW16	10.	Samara, USR.
RW17	10.	Kazan, USR. (686)	XGML	.0075	Kashing, Chn. (714.3)
RW27	4.	Makhatch, USR (689)	XG05	1	Chunking, Chn. (711)
690 (434.5) 					
720 (416.4) 					
730 (410.7) 					
740 (405.2) 					
750 (399.8) 					
760 (394.5) 					

FOREIGN B. C. STATIONS BY FREQUENCIES

<p>PRD9 .25 Sorocaba, Brz. (769) Radio Soc. Sorocaba</p> <p>RW78 3. Ijevsk, USSR. (767)</p> <p>XLHI .0075 Shanghai, Chn.</p> <p>XLHJ .015 Shanghai, Chn.</p> <p>2YB .1 New Plymouth, N. Z. Empire Bldg., King St. Mon. 19-22; Wed. 1830-22; Sat. 1330-17; 1830-22; Sun. 18-22</p> <p>..... 50. Falkirk, G. B. (767) Scottish Regional Weekdays 515-19; Sun. 730-1730 EST</p>	<p>XLHL .1 Shanghai, Chn.</p> <p>4QG 2.5 Brisbane, Ausl. State Insurance Bldg. Mon. to Fri. 830-1030; 12-1530; 1630-18; 19-1; Sat. 830-10; 1230-1; Sun. 12-15; 1630-1830; 1915-24</p> <p>..... 70. Cardiff, G. B. (804) West Regional Weekdays 515-1900; Sun. 730-1745 EST</p>	<p>F31CD 12. Saigon, Indo. Cle Generale de Tele- graphie sans Fil, P. O. Box. 238</p> <p>LT8 .5 Rosario, Arg. Julio Blomberg, Sar- miento 958</p> <p>PRA4 .05 Bahia, Brz. Radio Soc. da Bahia</p> <p>XGTM .015 Chang-shai, Chn.</p> <p>XNHD 1. Shanghai, Chn.</p> <p>ZBW 2. Hongkong, C. (845) The Secretary, Hong Kong Brdctsg. Com., P. O. Box 200.</p> <p>2YC .25 Wellington, N. Z. Featherstone St.</p> <p>..... 100. Berlin, G. (841) Radio Reichsender, Berlin Brdctsg. House Daily 0000-1800 EST</p>
<div style="display: flex; justify-content: space-between; align-items: center;"> 810 (370.2) <div style="border: 1px solid black; width: 100px; height: 20px;"></div> </div>		
<p>770 (389.4) </p> <p>CX12 1. Montevideo, Ur. Radio Westinghouse, Itacabo 2620; 10-23 Sendai, J.</p> <p>JOHK 10. Frederikstad, N. (776)</p> <p>LKF 1. Stalino, USSR. (776)</p> <p>RW26 10. Madras, In.</p> <p>VUM .2</p> <p>XHID .075 Ningpo, China</p> <p>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</p> <p>..... 2. Toulouse, F. (776) PTT Daily 330-1730 EST</p>	<p>CX14 5. Montevideo, Ur. El Espectador, Ltd., Lanus 5760, 10-24</p> <p>11MI 50. Milan, I. (814) Radio Milano, Corso 28, Ottobre 102, Mi- lano 134 Weekdays 130-1730; Sun. 330-1730 EST</p> <p>JOCK1 10. Nagoya, J.</p> <p>PRA6 10. Sao Paulo, Brz. (815) Radio Educadora Paulista, Rua Jose Bonifacio 12</p> <p>VUC 3. Calcutta, In.</p> <p>XQKC 2 Tientsin, China</p>	<p>850 (352.7) </p> <p>CX16 10. Montevideo, Ur. SADREP, Av. S. Mar- tinez 13500</p> <p>EAJ3 3. Valencia, Sp.</p> <p>HSP1 2.5 Bangkok, Siam (856)</p> <p>JOFK 10. Hiroshima, J.</p> <p>LKA .35 Aalesund, Nor.</p> <p>LKB 1. Bergen, Nor.</p> <p>LKP 1. Porsgrund, Nor.</p> <p>PRB3 .25 Juiz de Fora, Brz. (857) Radio Soc. de Juiz de Fora, Parque Halfeld Simferopol, USSR. (859)</p> <p>RW73 10. Nairobi, Ken. (858)</p> <p>VQB 3. Bombay, In. (855)</p> <p>XGOF .5 Tsinan, China</p> <p>XLIQ .05 Hangchow, China</p> <p>5RM 1. Renmark, Ausl. River Murray Brd- csters, Ltd., 29 Run- dle St., Adelaide (859)</p> <p>..... 1. Sofia, Bul.</p> <p>..... 35. Strasbourg, F. (859) Radio Strasbourg PTT, 30 Rue de 22 Nov. Weekdays 545- 19; Sun. 1630-19 EST</p>
<div style="display: flex; justify-content: space-between; align-items: center;"> 820 (365.6) <div style="border: 1px solid black; width: 100px; height: 20px;"></div> </div>		
<p>780 (384.4) </p> <p>CB78 1. Santiago, Chile. Co- operative Vitalicia, Agustina 1253, 9 piso Shizuoka, J.</p> <p>JOPK .5 Manila, P. I.</p> <p>KZEG 1. Daily 8-20</p> <p>LT1 5. Rosario, Arg. Radio Litoral, Cordoba 1049 Sao Paulo, Brz. (788) Radio Cosmos, Praca Marechal Deodoro 52 Shanghai, Chn.</p> <p>XLHA .05 Leipzig, G. (785) Temporarily on low power. Daily 00-18 EST</p>	<p>CB82 1. Santiago, Chi. El Diario Ilustrado, Moneda 1158. 9-10; 12-14; 16-1830; 20-24 Salto, Uruguay. Mo- desto Llantada Tucuman, Arg. G. Acha Munoz y Cia. Mendoza 437</p> <p>PRH8 5. Rio de Janeiro, Brz. Radio Ipanema</p> <p>XQHB .03 Shanghai, China</p> <p>2LV .1 Invernell, Australia</p> <p>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</p> <p>..... 12. Bucharest, Ru. (823) Weekdays 6-1730; Sun. 430-1830 EST</p>	<p>860 (348.6) </p> <p>PRA3 2.5 Rio de Janeiro, Brz. Radio Club de Brasil, Rua Betancourt da Silva 21</p> <p>XHHD .05 Shanghai, China.</p> <p>4AY .3 Ayr, Australia</p> <p>7HO .12 Hobart, Ausl. 82 Eliz- abeth St.</p> <p>..... 16. Poznan, Pol. (868) Daily 1-18 EST</p>
<div style="display: flex; justify-content: space-between; align-items: center;"> 830 (361.2) <div style="border: 1px solid black; width: 100px; height: 20px;"></div> </div>		
<p>790 (379.5) </p> <p>EAJ1 7.5 Barcelona, Sp. (795) Union Radio. Daily 215-19 EST</p> <p>JOJK 10. Kumamoto, J.</p> <p>LR10 10.25 Buenos Aires, Arg. Radio Cultura, Bel- grano 1841</p> <p>RW51 1. Naltchik, USSR. (794)</p> <p>XLIJ .05 Wushih, China</p> <p>ZTB .5 Bloemfontaine, S. Af.</p> <p>4YA 10. Dunedin, N.Z. Stuart St.</p> <p>..... 16. Lwow, Pol. (795) Polskie Radjo SA, Rozgloszenia we Lwowie Daily 1-18 EST</p>	<p>JOIK 10. Sapporo, J. T. Okada, Chf. Engr. EST Daily. 4 a.m.-7:30 a.m.</p> <p>LR5 29. Buenos Aires, Arg. Radio Excelsior, Mal- pu 462</p> <p>RW39 100. Moscow, USSR. (832) Inna Marr, Esq. Moscow-Stalin Radio Station. Daily 9-1630 EST</p> <p>XGF .0075 Tsinan, Chn. (833)</p> <p>XLII .03 Wuhu, Chn.</p> <p>3GI 7. Longford, Ausl.</p>	<p>870 (344.6) </p> <p>JOAK1 10. Tokyo, J. M. Toma- becio, EST Daily 4 a.m.-7:30 a.m.</p> <p>LR6 26. Buenos Aires, Arg. La Nacion, Florida 347 Iqarka, USSR. (871)</p> <p>RW85 2. Suchow, Chn.</p> <p>XHIC .075 Sydney, Ausl. "The Nation's Station". Adyar House, 29 Bligh St., Mon. to</p>
<div style="display: flex; justify-content: space-between; align-items: center;"> 840 (356.9) <div style="border: 1px solid black; width: 100px; height: 20px;"></div> </div>		
<p>800 (374.8) </p> <p>JOJK .5 Kofu, Japan. (CP)</p> <p>PRB7 .5 Rio de Janeiro, Brz.</p> <p>XLHK .0075 Shanghai, Chn.</p>	<p>CB84 1. Valparaiso, Chile</p> <p>CC84 .1 Talcahuano, Chile</p>	<p>880 (352.7) </p>

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)

PR82 .25 Curitiba, Brz. (882)
 Radio Club Paranaense
 RW61 1. Iochar-Ola, USR. (888)
 VUD 20. Delhi, India. (882)
 XHMV .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 Tottori, Japan. (CP)
 MTBY 1. Mukden, Mnch.
 OFA 10. Helsinki, Fin. (895)
 XGKA .015 Kasking, Chn. (895)
 ZP9 1.5 Asuncion, Par. (898)
 .5 Limoges, F. (895)

900 (333.1)

CB90 1. Valparaise, Chile, El
 Mercurio de Val,
 Casino de Vina del
 Mar.
 JODK1 10. Seoul, Korea
 KZ1B 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.
 XG01 .5 Shanghai, China.
 ZGP .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 Reichsender
 Hamburg. Daily 00-
 18 EST

910 (329.6)

LR2 12. Buenos Aires, Arg.
 Radio Argentina, Bol-
 iver 1356
 RW30 10. Dnepropetrovsk,
 USR., (913)
 XLIM .05 Amoy, Chn.
 4RK 2. Rockhamton, Ausl.
 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
 PRC3 .25 Pelotas, Brz.
 Soc. Radio Pelotense
 R'de Janeiro, Brz.
 (923). Soc. Anonima
 "Journal do Brasil"
 XHM1 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.
 Huks, Providencia
 3022
 CX20 2. Montevideo, Uru.
 Radio Monenario,
 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
 RW55 1. Engels, USR. (932)
 VUG 1. Delhi, India
 3UZ .6 Melbourne, Ausl.
 45 Bourke St. Mon.
 to Thu. 830-1530;
 1645-100; Fri. 830-16;
 1645-100; Sat. 830-
 1330; 1930-130; 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. Yana-
 da, 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-
 zene, Alger, Algeria,
 N. Af.
 Daily 8-18 EST

950 (315.6)

LR3 31. Buenos Aires, Arg.
 Radio Belgrano, Bel-
 grano 1841
 PP 60. Paris, F. (959)
 Poste Parisien, 4 Rue
 du General-Foy.
 Daily 210-18 EST
 PRF8 .5 Bahia, Brz. (959) Ra-
 dio Commercial da
 Bahia
 RW40 1. Gomel USR. (959)
 RW54 1. Gomel, USR. (959)
 XGOP .3 Peiping, Chn.
 ZUP .5 Pretoria, S. Af. (952)
 2UE 1. Sydney, Ausl. Rex
 Shaw, 296 Pitt St.,
 Mon. to Fri. 730-15;
 16-1; Sat. 730-1230;
 1500-130; Sun. 930-
 1330; 1815-0030.
 100. Breslau, G. Schlesic-
 he Funktunde,
 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)
 XHMF .1 Shanghai, Chn.
 XVHC 5. Caracas, Venz. (961)
 Brcdstg. Caracas, Apt
 de Correes 2009. Sun.
 9-23; Weekdays 16-
 2230
 2ZF .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, Bolivar 1551
 CX22 .25 Montevideo, Uru.
 Fada Radio, Larranga
 278. 1030-1530; 17-23
 JOBG .5 Maebashi, J.
 XH1B .075 Wusih, 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)

11GE 10. Genoa, I. (986) EIAR
 Stazione di Genova.
 Weekdays 130-1730;
 Sun. 318-1730 EST
 JOXK .5 Tokushima, J. T.
 Tsutsumi, Chf. Engr.
 EST Daily 2205-730;
 Sun., 2230-730
 OAX4E .05 Lima, Peru, Juan P.

FOREIGN B. C. STATIONS BY FREQUENCIES

PRC6 1. Goicochea, Jiron Ocona No. 158 R'de Janeiro, Brz. Soc. Radio Phillips, Rua Sacadura Cabral 43
 XMHB .5 Shanghai, Chn.
 2ZJ .2 Gisborne, N. Z.
 229 Gladstone Rd.
 6AM 2. Northam, Ausl.
 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 310-1810 EST
 XGCK .075 Chuching, Chn.
 XGOD 2. Hangchow, Chn.
 2GZ 2. Orange, Ausl.

1000(299.8) []
 HJ3ABH 2. Bogota, Col. (1005) "La Voz de La Victor", Aptdo 565. Sun., 12-14; 16-21; Wednes-days 1130-14; 18-23
 OKR 13.5 Bratislava, Cz. (1004) Daily 0030-1730 EST
 PRA3 1. Rio de Janeiro, Brz. Radio Soc. Mayrink Veiga, Rua Mayrink Veiga 17
 PRB8 .05 Mogy das Cruzes, Brz.
 XGMMK .015 Poatung, Chn. (1005)
 XGOT .05 Taiyuan, Chn.
 ZP3 .3 Asuncion, Par.
 4GR .2 Toowoomba, 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 SADRÉ, Las Rozas 756
 PRB9 5. Sao Paulo, Brz. (1017) Radio Soc. Record, Praca da Republica 17 Tchernigov, USR.
 RW86 5. Hangkow, Chn.
 3HA .3 Hamilton, Ausl. 37 Gray St., "The Age Brcdstg. 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 Lima, Peru. Escuela Militar de Chorrillos. Shanghai, Ch. 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 Sanchez, Mexicana 936
 CTIGL 5. Parede, Por. (1031) Radio Club Portu-guese. Fuzan, Korea
 JBAK .15 Buenos Aires, Arg.
 LR9 5. Radio Fenix, Santa Fe 1174
 PRC8 1. Rio de Janeiro, Brz. Radio Soc. Guana-bara, Rua 1st de Mayo 123
 XGOL 1. Foochow, Chn.
 YV11RMO . Maracaibo, Venz. (1034)
 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 Evangelistl y Cia. 10-13; 18-23
 JOJG .5 Yamagata, Japan
 RW70 10. Leningrad, USR.
 XHHH .1 Shanghai, Chn.
 SPI 2. Crystal Brook, Ausl. Relays 5AD. 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

11BA 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, USR.
 XHKH .2 Tien-tsin, Chn.
 2CA .5 Canberra, Ausl. Mon. to Fri. 14-15; 19-2330; Sat. 1930-2330; Sun. 2130-2030
 50. Falkirk, G. B. Scot-tish National. Week-days 545-1815; Sun. 1130-1745 EST

1060(282.8) []
 CB106 5. Santiago, Chi.
 JOIG .5 Toyama, Japan
 RW57 4. Tiraspol, USR. (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. Radio Tupy Sao Paulo
 XGOG .2 Kaifeng, Chn.
 XKRI .1 Canton, Chn. (1071)
 6KA 2. Katanning, Ausl. Western Ausl. Brcdsters., Ltd.
 30. Bordeaux, F. (1077) Bordeaux - Lafayette Hotel des PTT, 220 Chemin du Tondu 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, Pta. Roca 770
 OAX4F .05 Lima, Peru F. W. Castella and Hno. Opelans and closes "Anchors # weigh" Daily except Sun., 15-17 EST
 SCC 2. Faifun, Swe. (1086)
 XHHJ 2. Shanghai, Chn.
 ZP7 .7 Asuncion, Par. (1033)
 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, Galerie Chaves
- PRC7 .25 Belo Horizonte, Brz. Soc. Radio Minheira
- RW75 10. Vinnitza, USR. (1095)
- XLIO .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 .3 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
- L55 5. Buenos Aires, Arg. Radio Rivadavia, Callao 1526
- OKK 11.2 Moravska, Cz. (1113) Daily 0030-1730 EST
- XLIG .015 Kaoyu, China
- 2UW .75 Sydney, Ausl., J. M. Prentice, Box 241D, G.P.O. "At the Cross Roads of Sydney." 24 hours daily.
- 10. Normandie, F. (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)
- LVS .5 San Juan, Arg. Radio Los Andes, G. Acha 362
- OAX41 .. Lima, Peru. Radio Internacional
- PRH3 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, Eq. (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. Horby, 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
- 11TO 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)
- HJIABM .05 Cartagena, Cib. (1154)
- LR8 7. Buenos Aires, Arg. Radio Paris, Cangallo 860
- OAX4H .. Lima, Peru. Radio Davila, Aptdo. 373
- XGOZ 1. Chinkiang, Chn.
- YV7RMO .5 Maracabio, Venz. (1153)
- 2WG 1. Waqna, 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, Prat 773
- CW31 .25 Salto, Uru.
- LT5 .5 Salvador E Pera. 9-1230; 16-23
- 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, Speisergasse 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 di Campinas
- XLIF .1 Wusih, China
- 2NZ 2. Narrabri, Ausl.
- 2ZD .005 Masterton, N. Z. W. D. Ansell, 7 Rimu St. Daily 20-22. Re-lays 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 Fonien 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 Brcdstg. 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
XLKA .03 Peiping, Chn. (1194)
2CH 1. Sydney, Ausl.
77 York St., Mon. to
Fri. 830-15; 1630-0030;
Sat. 830-14; 1445-0030;
Sun. 12-14; 16-2330
..... 25. Frankfort, 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, Clb., 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
XHNN 1 Shanghai, Ctn.
YV3RC 3. Caracas, Vnz.
Bajos Pasaje Ramella
Lahore, India.
VUL .1 Christchurch, N. Z.
3YL .25 Adelaida, Ausl.
5KA .3 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
OA4AR .025 Lima, Peru
OA4D .025 Lima, Peru
XGTM .1 Tengchow, Chn.
XHKC .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
..... 60. Lille, F. (1213) Radio
PTT Nord (testing)
Daily 3-1730 EST

1220(245.8) []

PRE3 10. Rio de Janeiro, Brz.
Radio Transmissora
Brasileira
PRG9 .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
..... 50. Bologna, I. (1222)
..... .3 Narvik, Norway (1222)

1230(243.8) []

HJ4ABK .3 Medellin, Clb.
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.
Buenaventura y
Mahler. 9-13; 17-22
LU7 2. Bahia Blanca, Argen-
tina. Radio Ge. San
Martin, Calle Saro-
mento 60
LV-14 .5 La Rioja, Arg.
Radio Provincia de La
Rioja
XHMY .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 Saffle, 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. Sn. Sebastian, Sp.
(1258)
HC2JB .03 Guayaquil, Ec.
MABS .035 Tingshen, Chn.
OAX4L .1 Lima, Peru. Radio
Mirafloros, Calle
Manco Capac 347
PYG8 .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 Sheppardton, 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 Antofogasta, 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)
PRE8 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.
XHMQ .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. Aberdeen, G. B. (1285)

FOREIGN B. C. STATIONS BY FREQUENCIES

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

1290(232.4)

CX38 .5 Montevideo, Uru.
 PRA5 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
 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
 CPX 5. La Paz, Bol.
 LT10 .1 Santa Fe, Arg. Radio del Inst. Soc. de la Univ. Nac. del Litoral
 LU6 .5 Mar del Plata, Arg. Radio Altantica
 OAX4C .. Lima, Peru, Estacion Radiodifusora DUSA, Calle de Plumeros.
 PRC4 .05 Ampara, Brz. (1304)
 XQHC .5 Shanghai, Chn.
 YVSRMO.15 Tamaraibo, Vnz.
 2TM 1. Tamworth, Aust. Peel St. Mon. to Sat. 830-1030; 1330-1530; 17-18; 19-2330; Sun. 1330-1530; 1630-1830; 2030-2330.
 5 Danaty, 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 Norrkoping, Swe. (1312)
 SCQ .25 Trollhattan, Swe. (1312)
 XLIP .05 Suchow, China
 5AD .3 Adelalde, 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
 CW39 .1 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 St. Mon. to Fri. 9-1145; 1330-1538; 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, Cth., 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 Aliviol, 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 Provinciale 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. 18-12; 1930-2130
 5MU .1 Murray Bridge, Ausl. Milan, I. (1348)
 No. 2 4. Hile de F. (1348)
 5. Salzburg, Aust. (1348)
 2. Konigsbrg, G. (1348)
 5. Cairo, Eg. (1348)

1350(222.4)

LKN .15 Netodden, Nor. (1357)
 L56 6. Buenos Aires, Arg. Radio del Pueblo, Estados Unidos 1816
 OA6E .03 Arequipa, 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, Valvivia 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 do Para Araraquara, Brs. (1364)
 Araraquara, Ave. Araraquara, Ave. Feijo 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 Mercurio, Cta. 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 Wush, 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 Lavalleja, Uruguay
 CW43 .1 FFZ .25 Shanghai, Chn.
 OA6D .15 Arequipa, Peru
 PRD5 1. R' de Janelro, Brz. Dpto. de Educacion 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, Chl. Radio Phillips, Caupolican 370.
 CX44 .2 Montevideo, Uru. SADREP, Solis Grande 912. 8-2
 PRB5 .05 Franca, Brz. (1415)
 PRE5 .25 Radio Club Hertz Uberaba, Brz. 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. 1830-1130; 1930-2330
05 Uddevalla, Swe.
 Portuguese Common Wave (1411)

1420(211.1)

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

1430(209.7)

CC143 .1 Talca, Chilo. 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, Reman Diaz 2000
 CB144C .15 Santiago, Chilo. Luis Desmaras Los Leones, Calolla 2860
 CB144D .1 Santiago, Chile
 LS11 .7 La Plata, Arg. Radio Proa. de Bs. Aires.
 OA6U .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)
 7UV .3 Ulverstone, Ausl.
1 Courtral, Belg. (1465)
 Bega, Ausl.

1470(204)

LT11 .5 Parana, Argentina
 XGDZ .001 Changchow, Chn.
 2BE .1 Bega, 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 Albury, 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 Chatelineau, Belg. (1492)
 XLKS .02 Kashing, Chn.
 No. 1 .1 Wallonia, Belg. (1492)
 3MB .1 Bircnipe, 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.
 HJ5ABE .. Cali, Colombia
 Jose Calderon N. Cia. Radiodifusora Colombiana, S. A. Aptd. 50
 PRG6 .25 Cruzelro, Brz. Soc. Radio Mantiqueira
 VUP 2. Peshawar, India
 XHHT .1 Shanghai, Chn.
 XOCL .0075 Tsinan, Chn.
 3AK .2 Melbourne, Ausl.
 Hobart, Ausl.
25 Pietasari, Fin.
2 Radio Alcala, Sp.
 Belgium has several 100 watt stations on 1500.

1510(198.6)

YDA .5 Tandjongpriok, Java

1530(196.0)

SCJ .2 Karlskrona, Swe.

FOREIGN B. C. STATIONS BY LOCATIONS

SOUTH AMERICA							
ARGENTINA							
Bahia Blanca		Bauru		Concepcion		Medellin	
LU2	900 2000	PYG8	1250 250	CC64	640 100	HJ4ABK	1230 300
LU7	1240 2000	Bolem		CC117	1170 100	ECUADOR	
		PRC5	1360 100	CC141	1410 100		
Buenos Aires		Bello Horizonte		Curico			
LR1	1070 50000	PRC7	1090 250	CC96	960 100		
LR2	910 12000	Campinas		Magallanes			
LR3	950 31000	PRC9	1175 250	CD103	1030 100	Guyaquil	
LR4	990 16000	Cruzeiro		CD111	1110 100	HC2ET	1153 300
LR5	830 29000	PRG6	1500 250	CD136	1360 100	HC2JB	1250 30
LR6	870 26000	Curitiba		Osorno		PARAGUAY	
LR7	750 15000	PRB2	882 250	CD112	1120 100		
LR8	1150 7000	Fortaleza		CD121	1210 100	Asuncion	
LR9	1030 5000	PRE9	1315 500	Quiltoa		ZP1	1135 1000
LR10	790 10250	Franca		CB113	1130 100	ZP3	1000 300
LS1	710 5000	Jabotical		CC109	1090 100	ZP4	1275 150
LS2	1190 30000	PRG4	1442 250	CC145	1450 100	ZP5	1465 150
LS3	630 5000	Jahu		San Antonio		ZP7	1083 700
LS4	670 7000	PRG7	1340 250	CB140	1400 100	ZP9	898 1500
LS5	1110 5000	Juiz de Fora		San Felipe		Villarrica	
LS6	1350 6000	PRB3	857 250	CB146	1460 100	ZP15	700
LS7	1310 10000	Mogy das Cruces		Santiago		PERU	
LS8	1230 15000	PRB8	1000 50	CB57	570 5000	Arequipa	
LS9	1270 6000	Niteroy		CB62	620 1000	OA6D	1400 150
LS10	590 6000	PRD8	1132 1000	CB73	730 1000	OA6E	1350 30
Cordoba		Pelotas		CB78	780 1000	OA6U	1443 50
LV2	960 2000	PRC3	920 250	CB82	820 1000	Lima	
LV3	620 2000	Pernambuco		CB89	890 1000	OAX4A	750 1500
		PRC2	1090 3000	CB93	930 2500	OAX4B	1200 250
		PR12	600 25000	CB97	970 1000	OAX4C	1300
		Rio Claro		CB101	1010 1000	OAX4E	980 50
		PRF2	725 250	CB106	1060 5000	OAX4F	1080 50
		Rio de Janeiro		CB114	1140 5000	OAX4H	1150
		PRF2	725 250	CB118	1180 10000	OAX4I	1190
		PR2	750 1500	CB125	1250 1000	OAX4J	1120
		PR3	860 2500	CB130	130 1000	OAX4L	1250 100
		PR9	1000 1000	CB134	1340 1000	OAX4R	1210 25
		PRB7	800 500	CB138	1380 5000	OA4K	1360 150
		PRC6	980 1000	CB144A	1440 100	OA4D	1277 100
		PRC8	1030 1000	CB144B	1440 100	OA40	1210 25
		PRD2	932 1000	CB144C	1440 150	URUGUAY	
		PRD5	1400 1000	CB144D	1440 100		
		PRE2	1330 500	CB150	1500 10000	Canelones	
		PRE3	1220 10000	Talca		CW47	1480 100
		PRE4	940 250	CC143	1430 100	Colonia	
		PRE8	1270 7000	Talcahuano		DW37	1400 25
		PRF4	923 10000	CC84	840 100	Durazno	
		PRG3	1280 10000	Temuco		CW25	1040 500
		PRH8	820 5000	CC58	580 500	Florida	
		Rio Grande do Sul		CC137	1370 100	CW33	1200 75
		PRF9	1360 500	Valdivia		CW33	1200 75
		Santos		CD132	1320 100	Lavelleja	
		PRB4	960 1000	Valparaiso		CW43	1400 100
		PRG5	720 750	CB68	680 1000	Mercedes	
		Sao Paulo		CB76	760 10000	CW29	1120 500
		PR5	1295 500	CB84	840 1000	Montevideo	
		PR6	815 10000	CB90	900 1000	CX4	610 1000
		PR7	706 50	CB116	1160 1000	CX6	650 10000
		PRB6	1170 1000	CB120	1200 1000	CX8	690 500
		PRB9	1017 5000	CB124	1240 250	CX10	730 1000
		PRE7	788 5000	CB132	1320 1000	CX12	770 1000
		PRF3	900 5000	CB139	1390 1000	CX14	810 5000
		PRG9	1220 500	Vina del Mar		CX16	850 10000
		PRH3	1120 10000	CB64	640 1000	CX18	890 1000
		PRG2	1070 10000	CB111	1110 1000	CX20	930 2000
		Sorocaba		COLOMBIA		CX22	970 250
		PRD7	1430 250	Barranquilla		CX24	1019 2500
		PRD9	769 250	HJ1ABA	1330 100	CX26	1050 2000
		Taubate		Bogota		CX28	1090 3000
		PRD3	1207 250	HJN	681 500	CX30	1130 500
		Uberaba		HJ3ABD	1100 50	CX32	1170 500
		PRE5	1416 250	HJ3ABE	1200 1000	CX34	1210 500
		PRE6	740 1500	HJ3ABH	1005 2000	CX36	1250 250
		CHILE		HJ3ABJ	1320 50	CX38	1290 500
		Antofagasta		HJ3ABK	1320 50	CX40	1330 500
		CA127	1270 100	Cartagena		CX42	1370 1000
				HJ1ABM	1154 50	CX44	1410 200
						CX46	1450 1500
						CX48	1490 1500
BOLIVIA							
La Paz							
CPX	1300 5000						
CP4	1040 10000						
BRAZIL							
Amparo							
PRC4	1300 50						
Araraquara							
PRD4	1364 250						
Bahia							
PRA4	840 50						
PRF6	1050 50						
PRF8	950 500						

FOREIGN B. C. STATIONS BY LOCATIONS

Paysandu		
CW35	1240	250
CW39	1320	100
Rivera		
CW19A	1340	60
Rocha		
CW19	1340	50
Saito		
CW23	820	250
CW27	680	250
CW31	1160	250
San Jose		
CW41	1360	50

VENEZUELA

Caracas		
YVIRC	960	5000
YV3RC	1200	3000
YV4RC	750	100
Maracaibo		
YV5RMO	1300	150
YV7RMO	1153	500
YV11RMO	1034	.....
Valencia		
YV6RV	670	350

EUROPE

AUSTRIA

Dornbirn		
.....	1294	500
Graz		
.....	886	7000
Innsbruck		
.....	519	1000
Klanfenfurt		
.....	1294	4200
Linz		
.....	886	15000
Salzburg		
.....	1348	500
Vienna		
.....	592	120000
Vorarlberg		
.....	1294	6000

BELGIUM

Antwerp		
ON4EB	1465	100
Binche		
.....	1492	100
Brussels		
No. 1	620	15000
No. 2	932	15000
Chateleau		
ON4CE	1492	100
Courtrai		
.....	1465	100
Liege		
ON4RW	1500	100
Radio Comte		
.....	1500	100
Seraing		
.....	1500	100
Verviers		
No. 1	1500	100
No. 2	1500	100
Wallonia		
No. 1	1492	100
No. 2	1500	100

BULGARIA

Sofia		
.....	850	1000

CZECHOSLOVAKIA

Bratislava		
OKR	1004	13500
Brno		
OKB	922	32000
Kosice		
.....	1158	2600
Moravska		
OKK	1113	11200
Praha		
OKP	633	120000
No. 2	1204	5000

DANZIG

Danzig		
.....	1303	500

DENMARK

Copenhagen		
.....	1176	10000

ESTONIA

Tallinn		
.....	731	20000
Tartu		
.....	517	500

FINLAND

Heisinki		
OFA	895	10000
Pietersaari		
.....	1500	250
Pori		
OFD	749	1000
Sortavala		
.....	749	200
Tampere		
OFF	1420	700
Turku		
.....	1429	500
Viipuri		
OFH	527	10000

FRANCE

Beziars		
.....	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
Kiffel	1456	20000
.....	1068	800

Radio-Normandie

Rennes		
.....	1113	10000
Strasbourg		
.....	1040	40000
SPTT		
.....	859	35000
Toulouse		
.....	776	2000
.....	913	60000

GERMANY

Berlin		
.....	841	100000
Bremen		
.....	1330	2000
Breslau		
.....	950	100000
Cassel		
.....	1195	2000
Coblentz		
.....	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

GREAT BRITAIN

Aberdeen		
.....	1285	1000
Belfast		
.....	977	100000
Bournemouth		
.....	1474	1000
Cardiff		
WR	804	70000
WN	1149	20000
Davertry		
MR	1013	70000
Falkirk		
SN	1050	50000
SR	767	70000
London		
LN	1149	20000
LR	877	70000

Manchester		
NN	1149	20000
NR	668	70000

Newcastle		
.....	1122	1000

Plymouth		
.....	1474	300

HUNGARY

Budapest		
HAL	546	120000

Magyarovar		
HAE-2	1321	1250

Miskolc		
HAE-3	1438	1250

Nyiregyhaza		
HAE	1122	6200

Pecs		
HAE-4	1465	1250

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

LATVIA

Kuldiga		
.....	1258	10000

Madona		
.....	1104	50000

Riga		
YLZ	583	15000

LITHUANIA

Klaipeda		
.....	560	10000

NETHERLANDS

Hilversum		
PFB1	995	60000

FOREIGN B. C. STATIONS BY LOCATIONS

Birchip 3MB 1490 100 Brisbane 4BC 1120 1000 4BH 1380 1000 4BK 1290 500 4QG 800 2500 Broken Hill 2BH 1330 100 Bundaberg 4BU 1480 100 Burnie 7BU 660 50 Cairns 4CA 1390 100 Canberra 2CA 1050 500 Clevedon 4QN 600 7000 Corowa 2CO 670 7500 Crystal Brook 5CK 640 7500 5PI 1040 2000 Cummock 2CR 550 10000 Denilquin 2QN 1440 50 Dubbo 2DU 1060 100 Geelong 3GL 1350 100 Gouburn 2GN 1390 200 Grafton 2GF 1210 100 2NR 700 7000 Griffith 2RG 1470 50 Gunnedah 2MO 1360 50 Gympie 4GY 1430 50 Hamilton 3HA 1010 300 Hobart 7HO 860 120 7ZL 590 1000 Horsham 3HS 1370 50 Invernell 2LV 820 100	Ipswich 4IP 1440 50 Kalgoorlie 6GF 720 2000 6KG 1210 500 Katanning 6KA 1070 2000 Katoomba 2KB 1160 100 Kelso 7NT 710 7000 Launceston 7LA 1100 300 Lismore 2XN 1340 50 Lonoford 3GI 830 7000 Longreach 4LG 1100 300 Mackay 4MK 1160 100 Maryborough 4MB 1060 100 Melbourne 3AK 1500 200 3AR 580 4500 3AW 1280 600 3DB 1030 600 3KZ 1180 600 3LO 770 3500 3UZ 930 600 3XY 1420 600 Merredin 6MD 1330 500 Mildura 3MA 900 100 Minding 6WA 560 10000 Murray Bridge 5MU 1340 100 Narrabri 2NZ 1170 2000 Newcastle 2HD 1140 500 2KO 1410 500 2NC 1230 2000 Northam 6AM 980 2000 Oakey 4AK 1220 2000 Orange 2GZ 990 2000	Perth 6IX 1240 500 6ML 1130 500 6WF 690 3500 Port Moresby 4PM 1360 100 Renmark 5RM 850 1000 Rockhampton 4RK 910 2000 4RO 1330 50 Sale 3TR 1240 500 Shepparton 3WR 1260 500 Swan Hill 3SH 1080 100 Sydney 2BL 740 3000 2CH 1190 1000 2FC 610 3500 2GB 870 1000 2KY 1020 1000 2SM 1270 1000 2UE 950 1000 2UW 1110 750 Tamworth 2TM 1300 1000 Toowoomba 2GR 1000 500 Townsville 4TO 1170 200 Ulverstone U7V 1460 300 Wagga 2WG 1150 1000 Warrnambool 3YB 1060 50 Warwick 4WK 900 50 Wollongong 2WL 1430 300	NEW ZEALAND Auckland 1YA 650 10000 1YX 880 150 1ZB 1090 90 1ZS 1420 50 Balclutha 4ZR 1340 4 Christchurch 3YA 720 10000 3YL 1200 250 3ZM 1470 60 Cromwell 4ZC 1280 7 Dunedin 4YA 790 10000 4YO 1140 200 4ZB 1010 20 4ZL 1220 100 4ZM 1010 30 4ZO 1010 25 Gisbourne 2ZJ 980 200 2ZM 1150 15 Greymouth 3ZR 940 175 Hastings 2ZL 1240 20 Invercargill 4ZP 620 100 Manurewa 1ZM 1260 175 Masterton 2ZD 1170 5 Napier 2ZH 820 65 Nelson 2ZR 920 30 New Plymouth 2YB 760 100 Palmerston N. 2ZF 960 150 2ZO 1400 100 Wairoa 2ZP 900 105 Wellington 2YA 570 5000 2YC 840 250
FIJI			
Suva ZJV 920 400			
NEW CALEDONIA			
Noumea FJP 600 500			

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; W TIC, Hartford; WTAG, Worcester; W CSH, 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	938	HJ3ABE	1200	LR5	830	PRB3	857	RWS4	580	XGOQ	1076
CB57	570	CX22	970	HJ3ABH	1005	LR6	870	PRB4	960	RW54	950	XGOS	711
CB62	620	CX24	1010	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	HSP1	856	LR9	1030	PRB7	800	RW57	1058	XGOY	698
CB73	730	CX30	1130	H57PJ	750	LR10	790	PRB8	1000	RW61	888	XGZA	1150
CB76	760	CX32	1170	11BA	1059	LR11	1390	PRB9	1017	RW64	740	XGZZ	1335
CB78	780	CX34	1210	11BZ	536	LS1	710	PRC2	1090	RW65	734	XGSS	610
CB82	820	CX36	1250	11FI	610	LS2	1190	PRC3	1020	RW68	577	XGTM	840
CB84	840	CX38	1290	11GE	986	LS3	630	PRC4	1304	RW70	1040	XGTT	1210
CB89	890	CX40	1330	11MI	814	LS4	670	PRC5	1364	RW71	689	XHGS	738
CB90	900	CX42	1370	11NA	1104	LS5	1150	PRC6	980	RW73	850	XHMB	740
CB93	930	CX44	1410	11PA	565	LS6	1310	PRC7	1090	RW74	682	XHMD	860
CB97	970	CX46	1450	11RO	713	LS7	1310	PRC8	1030	RW75	1095	XHME	948
CB101	1010	CX48	1490	11TO	1140	LS8	1230	PRC9	1175	RW78	767	XHMF	960
CB106	1060	EAJ1	790	11TR	1140	LS9	1270	PRD2	932	RW79	610	XHMG	1028
CB111	1110	EAJ2	735	JBAK	1030	LS10	590	PRD3	1207	RW82	698	XHHH	1040
CB113	1130	EAJ3	805	JFAC	670	LS11	1440	PRD4	1364	RW84	635	XHHI	1050
CB114	1140	EAJ4	1492	JFBK	720	LT1	780	PRD5	1400	RW85	871	XHHJ	1080
CB116	1160	EAJ5	731	JFCF	580	LT3	1080	PRD7	1430	RW86	1013	XHHK	628
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	XHHM	1200
CB124	1240	EAJ8	1258	JOAK-2	590	LT8	840	PRE2	1330	SEC	1312	XHHP	1260
CB125	1250	EAJ9	1492	JOBG	970	LT9	1200	PRE3	1220	SED	601	XHHQ	1280
CB130	1300	EAJ10	1492	JOBK-1	750	LT10	1300	PRE4	940	SBH	1131	XHHR	1340
CB132	1320	EAJ11	1500	JOBK-2	1085	LT11	1478	PRE5	1410	SCA	1402	XHHS	1100
CB134	1340	EAJ12	1492	JOCG	655	LU0	750	PRE6	740	SCC	1402	XHHT	1500
CB138	1380	EAJ13	1492	JOCK-1	810	LU2	900	PRE7	788	SCD	1402	XHHV	880
CB139	1390	EAJ14	1500	JOCK-2	1175	LU6	1300	PRE8	1270	SCD	1402	XHHX	920
CB140	1400	EAJ15	1022	JODG	635	LU7	1240	PRE9	1315	SCF	1402	XHHY	1240
CB144A	1440	EAJ16	1492	JODK-1	900	LV1	730	PRF2	725	SCG	1402	XHHZ	1180
CB144B	1440	EAJ17	1492	JODK-2	610	LV2	968	PRF3	900	SCH	1402	XHIA	1410
CB144C	1440	EAJ19	1022	JOFG	900	LV3	620	PRF4	923	SCI	1402	XHIB	970
CB144D	1440	EAJ20	1492	JOFK	850	LV5	1120	PRF6	1050	SCJ	1530	XHIC	870
CB146	1460	EAJ21	1492	JOCK	790	LV6	690	PRF7	1380	SCJ	1312	XHID	770
CB150	1500	EAJ23	1492	JOHG	1050	LV7	820	PRF8	950	SCK	1402	XHJA	570
CB58	580	EAJ24	1492	JOHK	770	LV10	1210	PRF9	1360	SCL	1402	XHKA	1050
CB64	640	EAJ25	1502	JOIG	1060	LV14	1240	PRG3	1280	SCM	1402	XHKB	590
CB84	840	EAJ26	1502	JOHK	770	MABS	1250	PRG4	1442	SCN	1402	XHKB	590
CB96	960	EAJ27	1492	JOIK	830	MTBY	890	PRG5	720	SCQ	1312	XHKC	1210
CB109	1090	EAJ29	1500	JOJG	1040	MTCY	560	PRG6	1500	SCP	1402	XKRI	1071
CB117	1170	EAJ30	1500	JOJK	710	MTFY	675	PRG7	1340	SCQ	1312	XLHA	780
CB137	1370	EAJ31	1492	JOJK	800	OAX4A	750	PRG9	1200	SCR	1402	XLHB	560
CB141	1410	EAJ32	1500	JOJK	700	OAX4B	1200	PRH2	600	SCS	1402	XLHC	720
CB143	1430	EAJ33	1492	JOLG	890	OAX4C	1300	PRH3	1120	SCU	1402	XLHD	720
CB145	1450	EAJ34	1492	JOLK	680	OAX4E	980	PRH8	820	SCV	1240	XLHE	1380
CD103	1030	EAJ35	1500	JONG	600	OAX4F	1080	PYG6	1070	SCV	1402	XLHF	1380
CD111	1110	EAJ36	1500	JONK	940	OAX4H	1150	PYG8	1250	SCW	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	780	OAX4R	1210	RW13	960	VPB	705	XLHK	800
CD136	1360	EAJ40	1500	JOQK	920	OAX4K	1360	RW16	710	VQ7LO	858	XLHL	800
CNR	601	EAJ41	1492	JORK	720	OAX4O	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	JOJK	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	JQAK	652	OFE	1340	RW27	689	VUP	1500	XLID	1370
CW23	820	EAJ48	1492	KZEG	780	OFH	527	RW28	635	XGCK	990	XLIE	1250
CW25	1040	EAJ49	1500	KZIB	900	OKB	922	RW28	725	XGDX	1470	XLIF	1170
CW27	620	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	XLII	1270
CW31	1160	EAJ53	1492	LKB	850	OKR	1004	RW31	625	XGKA	895	XLIH	820
CW33	1200	EAJ55	1492	LKD	686	ONACE	1492	RW32	635	XGML	1005	XLIJ	790
CW35	1240	FFZ	1400	LKF	776	ONACE	1500	RW33	1050	XGKM	714.3	XLIK	1330
CW37	1400	FJP	600	LKH	519	ON4EB	1492	RW34	522	XGOA	660	XLIM	910
CW39	1320	F31CD	840	LKI	845	ON4RW	1500	RW35	598	XGBO	1290	XLIN	1390
CW41	1360	HAE	1122	LKK	1276	PFB1	995	RW36	586	XGOC	1130	XLIO	1090
CW43	1400	HAE2	1321	LKN	1357	PP	959	RW38	662	XGOD	990	XLIP	1310
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	1490
CX8	690	HC2ET	1153	LKS	1276	PRA5	1295	RW42	565	XGOH	590	XLKS	1190
CX10	730	HC2JB	1250	LKT	629	PRA6	815	RW46	686.5	XGOI	900	XLPH	1210
CX12	770	HJN	681	LRI	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	XHMB	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	4IP	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	1490	4PM	1360	6AM	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	6CF	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
YDZ	583	1ZB	1090	2MO	1360	2ZO	1400	3YB	1060	4YA	790	6ML	1130
YN	648	1ZM	1260	2NC	1230	2ZP	900	3YL	1200	4YO	1140	6PR	880
YVIRC	960	1ZS	1420	2NR	700	2ZR	920	3ZM	1470	4ZB	1010	6WA	560
YV3RC	1200	2AD	1080	2NZ	1170	3AK	1500	3ZR	940	4ZC	1280	6WF	690
YV4RC	750	2AY	1480	2QN	1440	3AR	580	4AK	1220	4ZL	1220	7BU	660
YV5RMO	1300	2BE	1470	2RG	1470	3AW	1280	4AY	1450	4ZM	1010	7HO	860
YV11RMO	1034	2BH	1330	2RN	1340	3BA	1320	4BC	1120	4Z0	1010	7LA	1103
YV6RV	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	CFLC	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.										
		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	CFLC	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	CFGT	1450	Victoria, B. C.										
	XEP	1160	Juarez, Chih.										
		Monday mornings											
		December 7											
5:30-6:00	WRAW	1310	Reading, Pa.										
		December 14											
1:00-2:00	WHEF	1500	Koseisuko, Miss										
2:30-6:00	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										
		December 5											
6:00-7:00	WTRC	1310	Elkhart, Ind.		NNRC								
		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								
		December 2											
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 keys. (555.2)

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

550 keys. (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
 KFYZ ae 1000 N (5) Bismarck, N. D. —Su. 0900-0100; †0800-0100
 KOAG ak 1000 Corvallis, Ore. —†1200-2400
 KSD ak 1000 2R (5) St. Louis, Mo.
 KTSA ak 1000 C (5) San Antonio, Tex.
 WDEV ae 500 D Waterbury, Vt.
 WGR ae 1000 G Buffalo, N. Y. —Su. 0900-0100; †0700-2400
 WKRC ak 1000 CX Cincinnati, Ohio
 WSWA ak 500 D Harrisonburg, Va.
 XEFC ak 250 Merida, Yuc.

560 keys. (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
 WOAM ak 1000 C Miami, Fla. —*0700-2400
 XEAO ak 250 Mexicali, L. C.

570 keys. (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.
 WNAS ak 1000 C (5) Yankton, S. D.
 WOSU ak 750 1 (1) Columbus, Ohio —M. thru F., 0900-1100; M thru Th., 1300-1500; M., W., 2000-2200; F., 1900-2300; Sa. 1300-2300
 WSYR ak 1000 B Syracuse, N. Y. —Su. 0700-2400; †0700-0100
 WWNC ak 1000 N Asheville, N. C. —Su. 0800-0100; †0730-0100

580 keys. (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
 WGH5 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 keys. (508.2)

KHIO 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 keys. (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
 FON 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; †0730-0100
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 keys. (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 keys. (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 keys. (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	I	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 keys. (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 keys. (461.3)

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

660 keys. (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 keys. (447.5)

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

CMCG	ak	1000	Havana, Cuba	—*0700-2400
KFEQ	ak	2500	D	St. Joseph, Mo.	—Su. 0900-ss; †0700-ss.
KFO	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	1000	C	Toronto, Ont.	—Su. 1030-2400; †0800-2400
CJ CJ	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
WHBE	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	
KGU	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		Cienfuegos, 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.
WIZ	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; †1800-2200
KEHE	ak	500	(1) X	Los Angeles, Calif.	
KFDY	ae	1000	D	Brookings, S. D.	—†1330-1500
KFQD	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.
 XEYZ 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 50000 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 G 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
 WEUU 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)

CFQC 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)

WABC 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
 CRGO ak 1000 F Ottawa, Ont. —Su. 1030-2400; †0800-0930; Sa. 1200-2400; †1200-1400; 1700-2400

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KFKA	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. 0800-2400; †0645-0100
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)

CJAT	ak	1000	F	Trail, B. C.	—Su. 1345-0200; †1000-0200
CKY	ak	15000	F	Winnipeg, Man.	—Su. 1200-0030; †0800-0100
CRGM	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.	
CFLG	ae	100	....	North Bay, 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	ak	100	F	Brantford, Ont.	
KMA	ak	1000	(2.5)	Shenandoah, Iowa	—Su. 1100-0500; †0900-0500
KROW	ak	1000	....	Oakland, Calif.	
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
XEBH	ak	500	....	Hermosillo, Sonora	—*1300-1600; 2100-2400

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

940 kcys. (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 kcys. (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 kcys. (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 kcys. (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 kcys. (306.0)

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

WBZ	c	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 kcys. (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 kcys. (296.9)

CHML	ak	100	F	Hamilton, Ont.	—Su. 0900-2230; †0800-2400
CKCD	ak	100	I	Vancouver, B. C.	
CKGD	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 keys. (293.9)

KYW	ak	1000	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 keys. (291.1)

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

1040 keys. (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 keys. (285.5)

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

1060 keys. (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 keys. (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 keys. (277.6)

WBT	ak	50000	C	Charlotte, N. C.	-Su. 1000-2400; †0645-2400
WCBD	ak	5000	IDnY	Waukegan, Ill.	
WMBI	ak	5000	IDn	Chicago, Ill.	

1090 keys. (275.1)

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

1100 keys. (272.6)

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

1110 keys. (270.1)

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

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1120 keys. (267.7)

CHLP	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.	
KRKD	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 keys. (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 keys. (263.0)

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

1150 keys. (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 keys. (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, Jal.	—*1200-1630; 2000-2400
XEP	ak	500	....	Juarez, Chih.	—*0900-0200

1170 keys. (256.3)

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

1180 keys. (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 keys. (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 keys. (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
KFFJ	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.	
KOLS	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	I	New Orleans, La.	—Su. 1100-1300; 1800-2200; †1300-1800; 2100-2400
WCAT	ak	100	D	Rapid City, S. D.	
WGAX	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.	—*1000-1330; 1600-2030
WJBC	ak	100	6 (.25)	Bloomington, Ill.	
WJBL	ak	100	6	Decatur, Ill.	
WJBW	ak	100	1	New Orleans, La.	—Su. 0200-1100; 1300-1800; 2200-0200; †0200-1300; †800-2100; 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.	—Su. 0900-1600; 0730-2100; †0800-2230
WRBL	ak	100	.....	Columbus, Ga.	—Su. 0900-1715; 0700-1615
WTHT	ak	100	D	Hartford, Conn.	
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 keys. (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.	
WBL Y	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.	
WGNY	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 kcys. (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	1000	1225	San Jose, C. R.	
WCAD	ak	500	D	Canton, 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 kcys. (243.8)					
CMGB	ak	150	.....	Havana, Cuba	
KGBX	ak	500	.....	Springfield, Mo.	
KGGM	ak	250	(.5)	Albuquerque, N. M.	—Su., 1245-2000; †0930-2830
KYA	ak	1000	N	San Francisco, Calif.	
WFEM	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 kcys. (241.8)					
CJCB	ak	1000	F	Sydney, N. S.	—Su. 1400-2300; †0700-1300; 1500-2300

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 keys. (239.9)

CMKC	ak	150	....	Santiago, Cuba	
KFOG	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.	
WNWE	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 keys. (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
KVOA	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 keys. (236.1)

CMHD	dk	250	....	Caibarien, 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 keys. (234.2)

GMCU	aed	500	....	Havana, Cuba	—*0655-0100; Su. 0200-0500
KFBB	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.	
WQRC	ak	500	C	Worcester, Mass.	—Su. 0845-2315; †0800-2400
WRR	ak	500	....	Dallas, Texas	—Su. 0830-2330; †0800-2400
WTNJ	ak	500	1	Trenton, N. J.	
XEMX	z	12	....	Mexico City, D. F.	

1290 keys. (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 kcys. (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.	
WIAZ	ae	500	1	Troy, N. Y.	—†1800-2400
WHBL	ae	250	.....	Sheboygan, Wis.	
WIOD	ak	1000	N	Miami, Fla.	
1310 kcys. (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.	
KROY	z	100	DP	Sacramento, Calif.	—Su. 1000-0015; †0700-0015
KRRV	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. 1600-1430; †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
WCMI	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
WBR	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
WFBC	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	.....	Muncie, Ind.	—Su. 0930-1900; †0700-1900; 2030-2400
WLNH	ak	100	6(.25)	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
WR0L	ak	100	(.25)	Knoxville, Tenn.	
WSAJ	ae	100	.....	Grove City, Pa.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WSGN	ak	100	(25)	Birmingham, Ala.	—Su. 0830-2400; †0800-2400
WSJS	ak	100	C	Winston-Salem, N.C.	—Su. 0900-2200; †0800-2200
WTAL	ak	100	....	Tallahassee, Fla.	—*0800-2400
WTEL	ce	100	4	Philadelphia, Pa.	
WTJS	ak	100	(25)	Jackson, Tenn.	—Su. 1200-2215; †0700-2030
WTRC	ak	100	6(25)	Elkhart, Ind.	
XEAG	z	10	....	Cordoba, Ver.	
XECW	z	10	....	Mexico City, D. F.	—Su. 1130-1600; †1100-2200
XEFW	ak	250	....	Tampico, Tams.	
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	—Su. 1230-1830; 0930-2345
KGHF	am	500	....	Pueblo, Colo.	—Su. 0130-1700; †0130-1800; Sa., 1800-1830
KGMB	ak	1000	C	Honolulu, T. H.	
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	250	....	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
KGJR	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)

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

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
WBOC	ak	1000	D	Vicksburg, Miss.	
WSBT	ak	500	1	South Bend, Ind.	

1370 kcys. (218.8)

KCCW	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; †030-1100; 1300-1400
KFJM	ak	100	(.25)XZ	Grand Forks, N. D.	
KFJZ	ae	100	(.25)	Fort Worth, Texas	—Su. 0800-2400; †0730-2400
KFRO	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	
KIGA	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
WHLB	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	(.25)	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)

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

1390 kcys. (215.7)

CJGJ	ak	100	....	Yorkton, Sask.	—*0830-1530; 1800-0030
CMJC	z	150	....	Camaguey, Cuba	
HIH	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 kcys. (214.2)

CMGC	ad	150	....	Matanzas, Cuba	—M., 1000-2300; daily exc. Su., M., 0800-2300
CMKR	z	250	....	Santiago, Cuba	
KHBC	z	250	....	Hilo, T. H.	—Su. 1100-0100; †1000-0100
KLO	ak	500	B	Ogden, Utah	
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.	
WEGL	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.	

VVFW ak 500 2 Brooklyn, N. Y.

1410 kcys. (212.6)

CKFC	ak	50	5	Vancouver, B. C.	
CKMO	aq	100	5F	Vancouver, B. C.	
CMCO	ak	250	....	Havana, Cuba	
KGNC	ae	1000	(2.5)	Amarillo, Texas	
WAAB	ak	500	....	Boston, Mass.	—24 hours a day
WBCM	ak	500	....	Bay City, Mich.	—*0900-0030
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 kcys. (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	P	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
KGCC	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.	
WAGO	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	3(.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
WGPG	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.	
WKBJ	ak	100	a	Cicero, Ill.	—†1330-1600; †2100-2300
WLAP	ak	100	(.25)	Lexington, Ky.	
WLEF	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
WMBG	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 keys. (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 keys. (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 keys. (206.8)

CFCT	ae	75	(.05)	Victoria, B. C.	—*1045-1630; 2040-0015; 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 keys. (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 keys. (204.0)

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

1480 keys. (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 keys. (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 keys. (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.	
KRRR	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
WCNW	ak	100	1 (.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.
WHBF	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.	
WMBO	ae	100	1	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	1 (.25)	Woodside, N. Y.	—*0800-0900; 1100-1400; 2000-2400
WWSW	ae	100	(.25)	Pittsburgh, Pa.	
.....	z	100	P	Salina, Kans.	

1510 kcys. (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 kcys. (196.0)

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

1550 kcys. (193.4)

W2XR	ak	1000	....	Long Isl. City, N. Y.	—Su. 1700-2100; †1000-1200; 1700-2115
W6XA1	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.	P	Has construction permit only.	
a	Verifies reception for return postage.	m	Verifies for 5¢.	R	National "Red" network.
b	Verifies only occasionally.	n	Weather or time only.	S	Sunday only.
c	Does not verify.	z	No information available.	Sy	Synchronized.
d	Verification 10c; letter 25c.	Fourth Column Symbols	X	Has permit to increase power.	
e	Sends Ekko stamp for 10c.	B	National "Blue" network.	Y	Has permit to change location.
f	Sends Ekko stamp for 5c.	C	Columbia network.	Z	Has permit to change frequency.
g	Sends Ekko stamp for postage.	D	Day time only.	a-b-c.	Small letters show stations using same transmitter.
h	Sends own station stamp for 10c.	Dn	Day time with occasional evening hours.	1-2-3.	Figures denote stations sharing time.
i	Sends own station stamp for 5c.	F	Canadian Radio Brdestg. Commission.	....	No information.
j	Sends own station stamp for postage.	N	National "Red" and "Blue"		

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	Grainville
Birmingham	Bakersfield	KGDM 1100 1000	WRFNS 830 5000
WAPI 1140 5000 N	KERN 1370 100 C	KWG 1200 100 C	Jacksonville
WBRC 930 1000 C	WGXAI 1550 1000	Watsonville	WJAX 900 1000 N
WSGN 1310 100	Berkeley	KHUB 1310 250	WMBR 1370 100 C
Decatur	KRE 1370 100	COLORADO	Lakeland
WMFO 1370 100	Beverly Hills	Alamosa	WLAK 1310 100
Dothan	KMPC 710 500	KGIW 1420 100	Miami
WAGF 1370 250	Chico	Colorado Springs	WIOD 1300 1000 N
Gadsden	KHSL 950 250	KVOR 1270 1000 C	WQAM 560 1000 C
WJBY 1210 100	Del Monte	Denver	Orlando
Huntsville	KDON 1210 100	KFEL 920 500	WDBO 580 1000 C
1200 100	El Centro	KLZ 560 1000 C	Pensacola
Mobile	KXO 1500 100	KOA 830 50000 N	WCOA 1340 500 C
WALA 1380 500 C	Eureka	KPOF 880 500	St. Augustine
Montgomery	KIEM 1450 500	KVOD 920 500	WFOY 1210 100
WSFA 1410 500 C	Fresno	Durango	St. Petersburg
Selma	KMJJ 580 500 C	KIUP 1370 100	WSUN 620 1000 N
WHBB 1500 100	Glendale	Grand Junction	Tallahassee
Sheffield	KIEV 850 250	KFXJ 1200 100	WTAL 1310 100
WMSD 1420 100	Hollywood	Greeley	Tampa
Tuscaloosa	KFWB 950 1000	KFKA 880 500	WDAE 1220 1000 C
WJRD 1200 100	KMTR 570 1000	Lamar	West Palm Beach
	KNX 1050 50000	KIDW 1420 100	WJNO 1200 100
ALASKA	Long Beach	Pueblo	GEORGIA
Anchorage	KFOX 1250 1000	KGHF 1320 500	Albany
KFOD 780 250	KGER 1360 1000	Sterling	WGPC 1420 100
Juneau	Los Angeles	KGEK 1200 100	Athens
KINY 1310 100	KECA 1430 1000 B	CONNECTICUT	WTFI 1450 500
Ketchikan	KEHE 780 500	Bridgeport	Atlanta
KGBU 900 500	KFAC 1300 1000	WICC 600 500 C	WATL 1370 100
	KFI 640 50000 R	Hartford	WGST 890 1000 C
	KFSD 1120 500	WDRG 1330 1000 C	WSB 740 50000 N
	KFVD 1000 250	WTIC 1040 50000 R	Augusta
	KGFJ 1200 100	WTHT 1200 100	WRDW 1500 100
	KHJ 900 1000 C	New Britain	Columbus
	KRKD 1120 500	WNBC 1380 250	WRBL 1200 100
	Merced	New Haven	Griffin
	KYOS 1040 250	WELI 900 500	WKEU 1500 100
	Modesto	New London	Macon
	KTRB 740 250	WNLC 1500 100	WMAZ 1180 1000
	Oakland	Waterbury	Rome
	KLS 1440 250	WATR 1190 100	WRGA 1500 100
	KLX 880 1000	WIXBS 1530 1000	Savannah
	KROW 930 1000	DELAWARE	WTOC 1260 1000 C
	Pasadena	Wilmington	Thomasville
	KPPC 1210 100	WDEL 1120 250	WPAX 1210 100
	Redding	WILM 1420 100	Waycross
	KVCV 1200 100	DISTRICT OF COLUMBIA	WAYX 1200 100
	Sacramento	Washington	IDAHO
	KFBK 1490 5000 C	WJWS 1460 10000 C	Boise
	KROY 1310 100	WMAL 630 250 B	KIDO 1350 1000
	San Bernardino	WOL 1310 100	Idaho Falls
	KFXM 1210 1000	WRC 950 500 R	KID 1320 500
	San Diego	FLORIDA	Lewiston
	KFSD 600 1000 B	Clearwater	KRLC 1420 100
	KGB 1330 1000 C	WFLA 620 1000 N	Nampa
	San Francisco	Daytona Beach	KFXD 1200 100
	KFRC 610 1000 C	WMFJ 1420 100	Pocatello
	KGGC 1420 100		KSEI 900 250
	KGO 790 7500 B		Twin Falls
	KJBS 1070 500		KTFI 1240 1000
	KPO 680 50000 R		
	KSFO 560 1000		
	KYA 1230 1000 N		
	San Jose		
	KQW 1010 1000		
	San Luis Obispo		
	KVEC 1200 250		
	Santa Ana		
	KVOE 1500 100		
	Santa Barbara		
	KDB 1500 100 C		
ARIZONA			
Jerome			
KCRJ 1310 100			
Lowell			
KSUN 1200 100			
Phoenix			
KOY 1390 500			
KTAR 620 1000 N			
Tucson			
KGAR 1370 100			
KVOA 1260 500			
Yuma			
KUMA 1420 100			
ARKANSAS			
Bytheville			
ELCN 1290 100			
El Dorado			
KELD 1370 100			
Fort Smith			
KFPW 1210 100			
Hot Springs			
KTHS 1060 10000 N			
Jonesboro			
KBTM 1200 100			
Little Rock			
KARK 890 250			
KGHI 1200 100			
KLRA 1390 1000 C			
Pine Bluff			
KOTN 1500 100			
Siloam Springs			
KUOA 1260 1000			
Texarkana			
KCMC 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	WLH 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
WBFL 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	
WGES 1360 500		Alexandria	MICHIGAN
WGN 720 50000	IOWA	KALB 1420 100	Battle Creek
WJJD 1130 20000	Ames	Baton Rouge	WELL 1420 100
WLS 870 50000 N	WOI 640 5000	WBO 1420 100	Bay City
WMAQ 670 50000 N	Boone	Lafayette	WBCM 1410 500
WBMI 1080 5000	KFGQ 1370 100	KVOL 1310 100	Calumet
WSBC 1210 100	Cedar Rapids	Lake Charles	WHDF 1370 100
Cicero	WMT 600 1000 B	KPLC 1500 100	Detroit
WEHS 1420 100	Davenport	Monroe	WJBK 1500 100
WHFC 1420 100	WOC 1370 100 C	KMLB 1200 100	WJR 750 50000 C
WKBI 1420 100	Decorah	New Orleans	WMBC 1420 100
Decatur	KGCA 1270 100	WBNO 1200 100	WWJ 920 1000 R
WJBL 1200 100	KWLC 1270 100	WBSU 1250 1000	WXYZ 1240 1000 B
East Dubuque	Des Moines	WJBW 1200 100	East Lansing
WKBB 1500 100	KRNT 1320 500 C	WSMB 1320 1000 N	WKAR 850 1000
East St. Louis	KSO 1430 500 B	WWL 850 10000 C	Flint
WTMU 1500 100	WHO 1000 50000 R	Shreveport	WFDF 1310 100
Harrisburg	Iowa City	KRMD 1310 100	Grand Rapids
WEBQ 1210 100	WSUI 880 500	KTBS 1450 1000 N	WASH 1270 500 N
Joliet	Marshalltown	KWKH 1100 1000 C	WOOD 1270 500 N
WCLS 1310 100	KFJB 1200 100		Ironwood
Peoria	Mason City	MAINE	WJMS 1420 100
WMBD 1440 500 C	KGLO 1210 100	Augusta	Jackson
Quincy	Shenandoah	WRDO 1370 100	WIBM 1370 100
WTAD 900 500	KFNE 890 500	Bangor	Kalamazoo
Rockford	KMA 930 1000	WABI 1200 100	WKZO 590 1000 B
WROK 1410 500	St. Louis City	WLBZ 620 500 C	Lansing
Rock Island	KSCJ 1330 1000 C	Portland	WJIM 1210 100
WBFB 1210 100		WCSH 940 1000 R	Lapeer
Springfield	KANSAS	WGAN 640 500	WMPC 1200 100
WCBS 1420 100	Ablene	Presque Isle	Marquette
WTAX 1210 100	KFBI 1050 5000	WAGM 1420 100	WBEQ 1310 100
Tuscola	Coffeyville		Muskegon
WDZ 1020 250	KGGF 1010 1000	MARYLAND	WKBZ 1500 100
Urbana	Dodge City	Baltimore	Royal Oak
WILL 580 250	KGNO 1340 250	WBAL 760 2500 B	WEXL 1310 50
Waukegan	Garden City	WBAL 1060 10000 B	
WCBF 1080 5000	KIUL 1210 100	WCAO 600 500 C	MINNESOTA
	Hutchinson	WCBM 1370 100	Duluth
	KWBG 1420 100	WFBR 1270 500 R	KDAL
	Kansas City	Cumberland	WBCB 1290 1000 N
	WLFB 1420 100	WTBO 800 250	Fergus Falls
	Lawrence	Frederick	KGDE 1200 100
	KFKU 1220 1000	WFMJ 900 500	Hibbing
	WREN 1220 1000 B	Hagerstown	WMFG 1210 100
	Manhattan	WJEJ 1210 100	Minneapolis
	KSAC 580 500		WCCO 810 50000 C
	Pittsburg		WDGY 1180 1000
	..... 790 1000		WLB 1250 1000
	Salina		WTCN 1250 1000
	..... 1500 100		Moorhead
	Topeka		KGFK 1500 100
	WIBW 580 1000 C		Northfield
	Wichita		WCAL 1250 1000
	KANS 1210 100		Rochester
	KFH 1300 1000 C		KROC 1310 100
			St. Paul
	KENTUCKY		KSTP 1460 10000 N
	Ashland		WMIN 1370 100
	WCMI 1310 100		Virginia
			WHLB 1370 100

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p style="text-align: center;">MISSISSIPPI</p> <p>Clarksdale WMFN 1210 100</p> <p>Gulfport WGCM 1210 100</p> <p>Hattiesburg WFOR 1370 100</p> <p>Jackson WJDX 1270 1000 N</p> <p>Kosciusko WHEF 1500 100</p> <p>Laurel WAML 1310 100</p> <p>Meridian WCOC 880 500</p> <p>Vicksburg WQBC 1360 1000</p> <hr/> <p style="text-align: center;">MISSOURI</p> <p>Cape Girardeau KFVS 1210 100</p> <p>Columbia KFRR 630 500</p> <p>Jefferson City WOS 630 500</p> <p>..... 1310 100</p> <p>Joplin WMBH 1420 100</p> <p>Kansas City KCMO 1370 100</p> <p>KMBC 950 1000 C</p> <p>WDAF 610 1000 R</p> <p>WHB 860 1000</p> <p>W9XB Y 1530 1000</p> <p>St. Joseph KFEQ 680 2500</p> <p>St. Louis KFUO 550 500</p> <p>KMOX 1090 50000 C</p> <p>KSD 550 1000 R</p> <p>KWK 1350 1000 B</p> <p>WEW 760 1000</p> <p>WIL 1200 100</p> <p>..... 1250 1000</p> <p>Springfield KGBX 1230 500</p> <p>KWTO 560 5000</p> <hr/> <p style="text-align: center;">MONTANA</p> <p>Billings KGHL 780 1000 N</p> <p>Butte KGIR 1340 1000 N</p> <p>Great Falls KFBB 1280 1000 C</p> <p>Kalispell KGEZ 1310 100</p> <p>Lewistown KDNC 1200 250</p> <p>Missoula KGVO 1260 1000 C</p> <p>Wolf Point KGCX 1310 100</p> <hr/> <p style="text-align: center;">NEBRASKA</p> <p>Clay Center KMMJ 740 1000</p> <p>Kearney KGFV 1310 100</p> <p>Lincoln KFAB 770 10000 C</p> <p>KFOR 1210 100 C</p>	<p>Norfolk WJAG 1060 1000</p> <p>North Platte KGNF 1430 1000</p> <p>Omaha KOIL 1260 1000</p> <p>WAAW 660 500</p> <p>WOW 590 5000 R</p> <p>Scottsbluff KGGY 1500 100</p> <hr/> <p style="text-align: center;">NEVADA</p> <p>Reno KOH 1380 500 C</p> <hr/> <p style="text-align: center;">NEW HAMPSHIRE</p> <p>Laconia WLNH 1310 100</p> <p>Manchester WFEA 1340 500 C</p> <p>Portsmouth WHEB 740 250</p> <hr/> <p style="text-align: center;">NEW JERSEY</p> <p>Asbury Park WCAP 1280 500</p> <p>Atlantic City WPG 1100 5000 C</p> <p>Camden WCAM 1280 500</p> <p>Jersey City WAAT 940 500</p> <p>WHOM 1450 250</p> <p>Newark WHBI 1250 1000</p> <p>WNEW 1250 1000</p> <p>WOR 710 50000</p> <p>Red Bank WBRB 1210 100</p> <p>Trenton WTNJ 1280 500</p> <p>Zarephath WAWZ 1350 500</p> <hr/> <p style="text-align: center;">NEW MEXICO</p> <p>Albuquerque KGGM 1230 250</p> <p>KOB 1180 10000</p> <p>Carlsbad KLAH 1210 100</p> <p>Clovis KICA 1370 100</p> <p>Roswell KGLF 1370 100</p> <p>Santa Fe KIUJ 1310 100</p> <hr/> <p style="text-align: center;">NEW YORK</p> <p>Albany WABY 1370 100 B</p> <p>WOKO 1430 500 C</p> <p>Auburn WMBO 1310 100</p> <p>Elinghamton WNB F 1500 100 C</p> <p>Brooklyn WARD 1400 500</p> <p>WBBC 1400 500</p> <p>WBRB 1300 1000</p> <p>WCNW 1500 100</p> <p>WEGL 1400 500</p>	<p>WLTH 1400 500</p> <p>WMBO 1500 100</p> <p>WVWF 1400 500</p> <p>Buffalo WBEN 900 1000 R</p> <p>WBNY 1370 100</p> <p>WEBR 1310 100 B</p> <p>WGR 550 1000 C</p> <p>WKBW 1480 5000 C</p> <p>WWSV 1370 50</p> <p>Canton WCAD 1220 500</p> <p>Elmira WESG 850 1000 C</p> <p>Freeport WGBB 1210 100</p> <p>Jamestown WOCL 1210 50</p> <p>Long Island City W2XR 1550 1000</p> <p>Newburgh WGNV 1210 100</p> <p>New York WABC 860 50000 C</p> <p>WBXX 1350 10000</p> <p>WBOQ 860 50000</p> <p>WEAF 660 50000 R</p> <p>WEVD 1300 1000</p> <p>WFAB 1300 1000</p> <p>WHN 1010 1000</p> <p>WINS 1180 1000</p> <p>WJZ 760 50000 B</p> <p>WLWL 1100 5000</p> <p>WMCA 570 500</p> <p>WNYC 810 1000</p> <p>WOV 1130 1000</p> <p>Olean WHDL 1420 100</p> <p>Plattsburg WMFF 1310 250</p> <p>Rochester WHAM 1150 50000 B</p> <p>WHEC 1430 500 C</p> <p>WSAY 1210 100</p> <p>Saranac Lake WNBZ 1290 100</p> <p>Schenectady WGY 790 50000 R</p> <p>Syracuse WFBL 1360 1000 C</p> <p>WSYR 570 1000 B</p> <p>Troy WHAZ 1300 500</p> <p>Utica WIBX 1200 100 C</p> <p>Watertown 1420 100</p> <p>White Plains WEAS 1210 100</p> <p>Woodside WRRL 1500 100</p> <hr/> <p style="text-align: center;">NORTH CAROLINA</p> <p>Asheville WVNC 570 1000 N</p> <p>Charlotte WBT 1080 50000 C</p> <p>WSOC 1210 100 N</p> <p>Durham WDNC 1500 100 C</p> <p>Gastonia WJBR 1420 100</p> <p>Greensboro WBIG 1440 500 C</p>	<p>High Point WMFR 1200 100</p> <p>Kinston 1200 100</p> <p>Raleigh WPTF 680 1000 N</p> <p>Rocky Mount WEED 1420 100</p> <p>Wilmington WMFD 1370 100</p> <p>Winston-Salem WSJS 1310 100 C</p> <p>..... 1250 250</p> <hr/> <p style="text-align: center;">NORTH DAKOTA</p> <p>Bismarck KFYR 550 1000 N</p> <p>Devils Lake KDLR 1210 100</p> <p>Fargo WDAY 940 1000 N</p> <p>Grand Forks KFJM 1370 100</p> <p>Mandan KGCU 1240 250</p> <p>Minot KLP M 1240 250</p> <p>Valley City KOV C 1500 100</p> <hr/> <p style="text-align: center;">OHIO</p> <p>Akron WADC 1320 1000 C</p> <p>WJW 1210 100</p> <p>Canton WHBC 1200 100</p> <p>Cincinnati WCPO 1200 100</p> <p>WKRC 550 1000 C</p> <p>WLW 700 50000 N</p> <p>WSAI 1330 1000 N</p> <p>Cleveland WGAR 1450 500 B</p> <p>WHK 1390 1000 C</p> <p>WJAY 610 500</p> <p>WTAM 1070 50000 R</p> <p>Columbus WBNS 1430 500 C</p> <p>WCOL 1210 100 N</p> <p>WHKC 640 500</p> <p>WOSU 570 750</p> <p>Dayton WHIO 1260 1000 C</p> <p>WSMK 1380 200 C</p> <p>Lima WBL Y 1210 100</p> <p>Portsmouth WPA Y 1370 100</p> <p>Toledo WSPD 1340 1000 C</p> <p>Youngstown WKBN 570 500 C</p> <p>Zanesville WALR 1210 100</p> <hr/> <p style="text-align: center;">OKLAHOMA</p> <p>Ada KADA 1200 100</p> <p>Ardmore KVSO 1200 100</p> <p>Elk City KASA 1210 100</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Enid KCRC 1360 250	Philadelphia KYW 1020 10000 R WCAU 1170 50000 C WDAS 1370 100 WFIL 560 1000 B WHAT 1310 100 WIP 610 1000 WRPN 920 250 WRAX 920 250 WTEL 1310 100	Huron KGDY 1340 250 Pierre KGFY 630 200 Rapid City KOBH 1370 100 WCAT 1200 100 Sioux Falls KSOO 1110 2500 1200 100 Vermillion KUSD 890 500 Watertown KWTN 1210 100 Yankton WNAK 570 1000 C	Houston KPRC 920 1000 N KTRH 1290 1000 C KXYZ 1440 1000 Kilgore KOCA 1210 100 Longview KFRO 1370 100 Lubbock KFYO 1310 100 Midland KRLI 1420 100 Palestine KNET 1420 100 Pampa KPDN 1310 100 Paris KPLT 1500 100 Pecos KIUN 1420 100 Port Arthur KPAC 1260 500 San Angelo KGKL 1370 100 San Antonio KABC 1420 100 KMCC 1370 100 KONO 1370 100 K TSA 550 1000 C WOAI 1190 50000 N Sherman KRRV 1310 100 Temple KTEM 1370 100 Tyler KGGK 1500 100 Waco WACO 1420 100 C Weslaco KRGV 1260 500 Wichita Falls KGKO 570 250 C
OREGON	Pittsburgh KDKA 980 50000 B KQP 1380 500 C WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100 Reading WEEU 830 1000 WRAW 1310 100 Scranton WGBI 880 500 WQAN 880 250 Sunbury WKOK 1210 100 Wilkes-Barre WBAX 1210 100 WBRE 1310 100 Williamsport WRAC 1370 100 York WORK 1320 1000	TENNESSEE	
ASTORIA KAST 1370 100	Corvallis KOAC 550 1000	Bristol WOPJ 1500 100	Chattanooga WAPO 1420 100 WDOD 1280 1000 C Jackson WTJS 1310 100 Knoxville WNOX 1010 1000 C WROL 1310 100 Memphis WHBO 1370 100 WMC 780 1000 N WNBR 1430 500 WREC 600 1000 C Nashville WLAC 1470 5000 C WSM 650 50000 N Springfield WSIX 1210 100
Eugene KORE 1420 100	Klamath Falls KFJI 1210 100	Memphis WBBQ 1370 100 WMC 780 1000 N WNBR 1430 500 WREC 600 1000 C Nashville WLAC 1470 5000 C WSM 650 50000 N Springfield WSIX 1210 100	TEXAS
Marshfield KOOS 1200 250	Medford KMED 1310 100	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	Abilene KRBC 1420 100 Amarillo KGNC 1410 1000 Austin KNOW 1500 100 C Beaumont KFDM 560 500 Big Spring KBST 1500 100 Brady KNEL 1500 100 College Station WTAW 1120 500 Corpus Christi KGFY 1500 100 Corsicana 1310 100 Dallas KRLD 1040 10000 C WFAA 800 50000 N WRR 1280 500 Dublin KFPL 1310 100 El Paso KTEP 1500 100 KTSM 1310 100 WDAH 1310 100 Fort Worth KFJZ 1370 100 KTAT 1240 1000 WBAP 800 50000 N Galveston KLUF 1370 100
ROSEBURG KRNR 1500 100	Salom KSLM 1370 100	Mayaguez WPRA 1370 100 Ponce WPRP 1420 100 San Juan WKAQ 1240 1000 WNEL 1290 1000	UTAH
PENNSYLVANIA	RHODE ISLAND	NEWPORT WNRI 1200 100 Providence WEAN 780 500 C WJAR 890 1000 R WPRO 630 500	Cedar City 1310 100 Ogden KLO 1400 500 B Price KEUB 1420 100 Salt Lake City KDYL 1290 1000 R KSL 1130 50000 C KUTA 1500 100
ALLENTOWN WCBA 1440 500 WSAN 1440 500 Altoona WFBG 1310 100 Easton WEST 1200 100 Erie WLEU 1420 100 Glenside WIBG 970 100 Greensburg WHJB 620 250 C Grove City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 100 Hazleton WAZL 1420 100 Johnstown WJAC 1310 100 Lancaster WGAL 1500 100	NEWPORT WNRI 1200 100 Providence WEAN 780 500 C WJAR 890 1000 R WPRO 630 500	SOUTH CAROLINA	VERMONT
	SOUTH DAKOTA	Anderson WAIM 1200 100 Charleston WCSC 1360 500 N Columbia WIS 560 1000 N Greenville WFBC 1300 1000 N Spartanburg WSPA 920 1000	Burlington WCAX 1200 100 Rutland WSYB 1500 100 St. Albans WQDM 1370 100 Springfield WNBX 1260 1000 Waterbury WDEV 550 500
	Aberdeen KABR 1420 100 Brookings KFDY 780 1000	VIRGINIA	Arlington NAA 690 1000 Charlottesville WCHV 1420 100

NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Danville WBTM 1370 100</p> <p>Harrisonburg WSVA 550 500</p> <p>Lynchburg WLVA 1200 100</p> <p>Newport News WGH 1310 100</p> <p>Norfolk WTAR 780 500 N</p> <p>Petersburg WPHR 880 500</p> <p>Richmond WBBL 1210 100 WMBG 1210 100 C WRVA 1110 5000 N</p> <p>Roanoke WDBJ 930 1000 C</p> <hr/> <p>WASHINGTON</p> <p>Aberdeen KXRO 1310 100</p> <p>Bellingham KVO5 1200 100</p> <p>Everett KRKO 1370 50</p> <p>Olympia KGY 1210 100</p> <p>Pullman KWSC 1220 1000</p> <p>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</p> <p>Spokane KFIO 1120 100 KFPY 890 1000 C KGA 1470 5000 B KHQ 590 1000 R</p> <p>Tacoma KMO 1330 250 KVI 570 1000 C</p> <p>Walla Walla KUJ 1370 100</p> <p>Wenatchee KPQ 1500 100</p> <p>Yakima KIT 1310 100</p> <hr/> <p>WEST VIRGINIA</p> <p>Bluefield WHIS 1410 500</p> <p>Charleston WCHS 580 500</p> <p>Clarksburg WBLK 1370 100</p> <p>Fairmont WMMN 890 500 C</p> <p>Huntington WSAZ 1190 1000</p> <p>Parkersburg WPAR 1420 100</p> <p>Wheeling WVVA 1160 5000 C</p>	<p>WISCONSIN</p> <p>Eau Claire WEAU 1050 250</p> <p>Fond du Lac KFJZ 1420 100</p> <p>Green Bay WHBY 1200 100</p> <p>WTAQ 1330 1000</p> <p>Janesville WCLO 1200 100</p> <p>LaCrosse WKBH 1380 1000</p> <p>Madison WHA 940 5000 WIBA 1280 1000 N</p> <p>Manitowoc WOMT 1210 100</p> <p>Milwaukee WEMP 1310 100 WISN 1120 250 C WTMJ 620 1000 N</p> <p>Poynette WIBU 1210 100</p> <p>Racine WRJN 1370 100</p> <p>Sheboygan WHBL 1300 250</p> <p>Stevens Point WLBL 900 2500</p> <p>Wausau 1370 100</p> <hr/> <p>WYOMING</p> <p>Casper KDFN 1440 500</p> <p>Sheridan KWYO 1370 100</p>	<p>MANITOBA</p> <p>Brandon CKX 1120 100 F</p> <p>Winnipeg CJRC 630 1000 F CKY 910 1500 F</p> <hr/> <p>NEW BRUNSWICK</p> <p>Fredericton CFNB 550 500 F</p> <p>Moncton CKGW 1370 100 F</p> <p>St. John CHSJ 1120 500 F</p> <hr/> <p>N. W. TERRITORY</p> <p>Aklavik CJCU 1210 50</p> <hr/> <p>NOVA SCOTIA</p> <p>Glace Bay VAS 685 2000</p> <p>Halifax CHNS 930 1000 F</p> <p>Sydney CJCB 1240 1000 F</p> <p>Wolfville CKK 1010 50</p> <p>Yarmouth CJLS 1310 100</p> <hr/> <p>ONTARIO</p> <p>Brantford CKPC 930 100 F</p> <p>Chatham CFCO 630 100 F</p> <p>Cobalt CKMC 1210 50</p> <p>Fort William CKPR 730 100 F</p> <p>Hamilton CHML 1010 100 F CKOC 1120 500 F</p> <p>Kingston CFRC 1510 100 F</p> <p>Kirkland Lake CJL 1310 100 F</p> <p>London CFPL 730 100 F</p> <p>North Bay CFCH 930 100 F</p> <p>Ottawa CKCO 1010 100 F CRCO 880 1000 F</p> <p>Prescott CFCL 930 100</p> <p>St. Catharines CKTB 1200 100 F</p> <p>Sault Ste. Marie CJIC 1500 100</p> <p>Stratford CJCS 1210 50</p> <p>Sudbury CKSO 780 1000 F</p> <p>Timmins CKGB 1420 100 F</p>	<p>Toronto CFRB 690 10000 C CKCL 580 100 F CRCT 840 5000 N</p> <p>Waterloo CKCR 1510 100</p> <p>Windsor CKLW 1030 5000 CRCW 600 500 F</p> <p>Wingham GKNX 1200 50</p> <hr/> <p>PRINCE EDWARD ISLAND</p> <p>Charlottetown CFGY 630 1000 F CHCK 1310 50</p> <p>Summerside CHGS 1450 50 F</p> <hr/> <p>QUEBEC</p> <p>Chicoutimi CRCS 950 100 F</p> <p>Hull CKCH 1210 100 F</p> <p>Montmagny VE9EK 1185 10</p> <p>Montreal CFCF 600 400 N CHLP 1120 100 F CKAC 730 5000 C CRCM 910 5000 F</p> <p>New Carlisle CHNC 960 1000 F</p> <p>Quebec CHRC 580 100 CKCV 1310 100 F CRCK 1050 1000 F</p> <hr/> <p>SASKATCHEWAN</p> <p>Moose Jaw CHAB 1200 100 F CJRM 540 1000 F</p> <p>Prince Albert CKBI 1210 100 F</p> <p>Regina CKCK 1010 500 F</p> <p>Saskatoon CFQC 840 1000 F</p> <p>Yorkton CJGX 1390 100</p> <hr/> <p>NEWFOUNDLAND</p> <p>St. John's VOAC 1065 40 VOAS 940 100 VOGY 840 400 VONF 1195 500 VOWR 681 560</p> <hr/> <p>MIQUELON</p> <p>St. Pierre FQN 609 250</p>
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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
XEF	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
Torreón		
XETB	1310	125
Villa Acuña		
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		
XEAZ	1420	7
Leon		
XEKL	1240	500

JALISCO

Guadalajara		
XEA	1060	500
XED	1160	2500

LOWER CALIFORNIA

Agua Caliente		
XEBC	730	5000
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
XEII	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		
XEFC	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		
CMJI	1360	100
CMJJ	1130	150
CMJO	1180	50

Cienfuegos		
CMHJ	1160	175
CMHW	820	100
CMHX	760	200

Crucos		
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
CMBZ	1000	500
CMCA	1350	250
CMCB	1230	150
CMCD	950	250
CMCF	810	600
CMCG	680	1000
CMCJ	1110	500
CMCO	1200	250
CMCQ	1410	250
CMCR	1380	150
CMCU	1280	500
CMCV	750	150
CMCX	1500	1500
CMCY	1030	5000
CMK	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		
HIH	1395	15

Trujillo		
HIJ	1195	15
HIX	800	700
HIZ	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 1310	100	CMBC 640	150
Montreal, Que.		Kirkland Lake, Ont.		Havana, Cuba	
CFCH 938	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	CMBZ 1000	500
Prescott, Ont.		Prince Albert, Sask.		Havana, Cuba	
CFNB 550	500	CKGD 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	
CFRB 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.		Moncton, 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	CMCG 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
Trail, 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.		Caibarien, Cuba	
CJCJ 690	100	CKTB 1200	100	CMHI 1210	150
Calgary, Alta.		St. Catherines, 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		Tegucigalpa, Hond.		Ablene, Kans.	
CMJK 780	250	KABC 1420	200	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
Holguin, 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	KKFA 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	KKNF 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	KFQD 780	250
Vancouver, B. C.		Salt Lake City, Utah		Anchorage, Alaska	
CRCW 600	500	KECA 1430	1000	KKFC 610	1000
Windsor, Ont.		Los Angeles, Calif.		San Francisco, Calif.	
FQN 609	250	KEHE 780	500	KKRO 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

KFSO 1120 Los Angeles, Calif.	500	KGGF 1010 Coffeyville, Kans.	1000	KIUJ 1310 Santa Fe, N. Mex.	100
KFUO 550 St. Louis, Mo.	500	KGGM 1230 Albuquerque, N. M.	250	KIUL 1210 Garden City, Kans.	100
KFVD 1000 Los Angeles, Calif.	250	KGHF 1320 Pueblo, Colo.	500	KIUN 1420 Pecos, Texas	100
KFVS 1210 Cape Girardeau, Mo.	100	KGHI 1200 Little Rock, Ark.	100	KIUP 1370 Durango, Colo.	100
KFWB 950 Hollywood, Calif.	1000	KGHL 780 Billings, Mont.	1000	KJBS 1070 San Francisco, Calif.	500
KFXD 1200 Nampa, Idaho	100	KGIR 1340 Butte, Mont.	1000	KJR 970 Seattle, Wash.	5000
KFXJ 1200 Grand Junction, Colo.	100	KGIW 1420 Alamosa, Colo.	100	KLAH 1210 Carlsbad, N. Mex.	100
KFXM 1210 San Bernardino, Calif.	100	KGKB 1500 Tyler, Texas	100	KLCN 1290 Blytheville, Ark.	100
KFXR 1310 Oklahoma City, Okla.	100	KGKL 1370 San Angelo, Texas	100	KLO 1400 Ogden, Utah	500
KFYO 1310 Lubbock, Texas	100	KGKO 570 Wichita Falls, Texas	250	KLPM 1240 Minot, N. D.	250
KFYR 550 Bismarck, N. D.	1000	KGKY 1500 Scottsbluff, Neb.	100	KLRA 1390 Little Rock, Ark.	1000
KGA 1470 Spokane, Wash.	5000	KGLO 1210 Mason City, Iowa	100	KLS 1440 Oakland, Calif.	250
KGAR 1370 Tucson, Ariz.	100	KGMB 1320 Honolulu, T. H.	1000	KLUF 1370 Galveston, Texas	100
KGB 1330 San Diego, Calif.	1000	KGNC 1410 Amarillo, Texas	1000	KLX 880 Oakland, Calif.	1000
KGBU 900 Ketchikan, Alaska	500	KGNF 1430 North Platte, Neb.	1000	KLZ 560 Denver, Colo.	1000
KGBX 1230 Springfield, Mo.	500	KGNO 1340 Dodge City, Kans.	250	KMA 930 Shenandoah, Iowa	1000
KGCA 1270 Decorah, Iowa	100	KGO 790 San Francisco, Calif.	7500	KMAC 1370 San Antonio, Texas	100
KGCU 1240 Mandan, N. D.	250	KGU 750 Honolulu, T. H.	2500	KMBC 950 Kansas City, Mo.	1000
KGCC 1310 Wolf Point, Mont.	100	KGVO 1260 Missoula, Mont.	1000	KMED 1310 Medford, Ore.	180
KGDE 1200 Fergus Falls, Minn.	100	KGW 620 Portland, Ore.	1000	KMJ 580 Fresno, Calif.	500
KGDM 1100 Stockton, Calif.	1000	KGY 1210 Olympia, Wash.	100	KMLB 1200 Monroe, La.	100
KGDY 1340 Huron, S. D.	250	KHBC 1400 Hilo, T. H.	250	KMMJ 740 Clay Center, Neb.	1000
KGEK 1200 Sterling, Colo.	100	KHJ 900 Los Angeles, Calif.	1000	KMO 1330 Tacoma, Wash.	250
KGER 1360 Long Beach, Calif.	1000	KHQ 590 Spokane, Wash.	1000	KMOX 1090 St. Louis, Mo.	50000
KGEZ 1310 Kalispell, Mont.	100	KHSL 950 Chico, Calif.	250	KMPC 710 Beverly Hills, Calif.	500
KGFF 1420 Shawnee, Okla.	100	KHUB 1310 Watsonville, Calif.	250	KMTR 570 Hollywood, Calif.	1000
KGFG 1370 Oklahoma City, Okla.	100	KICA 1370 Clovis, N. M.	100	KNEL 1500 Brady, Texas	100
KGFI 1500 Corpus Christi, Texas	100	KID 1320 Idaho Falls, Idaho	500	KNET 1420 Palestine, Texas	100
KGfJ 1200 Los Angeles, Calif.	100	KIDO 1350 Boise, Idaho	1000	KNOW 1500 Austin, Texas	100
KGFK 1500 Moorhead, Minn.	100	KIDW 1420 Lamar, Colo.	100	KNX 1050 Hollywood, Calif.	50000
KGFL 1370 Roswell, N. M.	100	KIEM 1450 Eureka, Calif.	500	KOA 830 Denver, Colo.	50000
KGFW 1310 Kearney, Neb.	100	KIEV 850 Glendale, Calif.	250	KOAC 550 Corvallis, Ore.	1000
KGFX 630 Pierre, S. D.	200	KINY 1310 Juneau, Alaska	100	KOB 1180 Albuquerque, N. M.	10000
KGGC 1420 San Francisco, Calif.	100	KIRO 710 Seattle, Wash.	1000	KOBH 1370 Rapid City, S. Dak.	100
		KIT 1310 Yakima, Wash.	100	KOCA 1210 Kilgore, Texas	100
				KOH 1380 Reno, Nev.	500

NORTH AMERICAN B. C. STATIONS BY CALLS

KOIL 1260 Omaha, Nebr.	1000	KROY 1310 Sacramento, Calif.	100	KVI 570 Tacoma, Wash.	1000
KOIN 940 Portland, Ore.	1000	KRRV 1310 Sherman, Texas	100	KVL 1370 Seattle, Wash.	100
KOL 1270 Seattle, Wash.	1000	KRSC 1120 Seattle, Wash.	100	KVOA 1260 Tucson, Ariz.	500
KOMA 1480 Oklahoma City, Okla.	5000	KSAC 580 Manhattan, Kans.	500	KVOD 920 Denver, Colo.	500
KOMO 920 Seattle, Wash.	1000	KSCJ 1330 Sioux City, Iowa	1000	KVOE 1500 Santa Ana, Calif.	100
KONO 1370 San Antonio, Texas	100	KSD 550 St. Louis, Mo.	1000	KVOL 1310 Lafayette, La.	100
KOOS 1200 Marshfield, Ore.	250	KSEI 900 Pocatello, Idaho	250	KVOO 1140 Tulsa, Okla.	25000
KORE 1420 Eugene, Ore.	100	KSFO 560 San Francisco, Calif.	1000	KVOR 1270 Colorado Spgs., Colo.	1000
KOTN 1500 Pine Bluffs, Ark.	100	KSL 1130 Salt Lake City, Utah	50000	KVOS 1200 Bellingham, Wash.	100
KOVC 1500 Valley City, N. Dak.	100	KSLM 1370 Salem, Ore.	100	KVSO 1210 Ardmore, Okla.	100
KOY 1390 Phoenix, Ariz.	500	KSO 1430 Des Moines, Iowa	500	KWBG 1420 Hutchinson, Kans.	100
KPAC 1260 Port Arthur, Texas	500	KSOO 1110 Sioux Falls, S. D.	2500	KWG 1200 Stockton, Calif.	100
KPDN 1310 Pampa, Texas	100	KSTP 1460 St. Paul, Minn.	25000	KWJJ 1040 Portland, Ore.	500
KPLC 1500 Lake Charles, La.	100	KSUN 1200 Lowell, Ariz.	100	KWK 1350 St. Louis, Mo.	1000
KPLT 1500 Paris, Texas	100	KTAR 620 Phoenix, Ariz.	1000	KWKH 1100 Shreveport, La.	10000
KPO 680 San Francisco, Calif.	50000	KTAT 1240 Fort Worth, Texas	1000	KWLC 1270 Decorah, Iowa	100
KPOF 880 Denver, Colo.	500	KTBS 1450 Shreveport, La.	1000	KWSC 1220 Fullman, Wash.	1000
KPPC 1210 Pasadena, Calif.	100	KTEM 1370 Temple, Texas	100	KWTN 1210 Watertown, S. D.	100
KPQ 1500 Wenatchee, Wash.	100	KTEP 1500 El Paso, Texas	100	KWTO 560 Springfield, Mo.	5000
KPRC 920 Houston, Texas	1000	KTFI 1240 Twin Falls, Idaho	1000	KWYO 1370 Sheridan, Wyo.	100
KQV 1380 Pittsburgh, Pa.	500	KTHS 1060 Hot Springs, Ark.	10000	KXA 760 Seattle, Wash.	250
KQW 1010 San Jose, Calif.	1000	KTRB 740 Modesto, Calif.	250	KXL 1420 Portland, Ore.	100
KRBC 1420 Abilene, Texas	100	KTRH 1290 Houston, Texas	1000	KXO 1500 El Centro, Calif.	100
KRE 1378 Berkeley, Calif.	100	KTSA 550 San Antonio, Texas	1000	KXRO 1310 Aberdeen, Wash.	100
KRGV 1260 Weslaco, Texas	500	KTSM 1310 El Paso, Texas	100	KXYZ 1440 Houston, Texas	1000
KRKD 1120 Los Angeles, Calif.	500	KTUL 1400 Tulsa, Okla.	500	KYA 1230 San Francisco, Calif.	1000
KRKO 1370 Everett, Wash.	50	KTW 1220 Seattle, Wash.	1000	KYOS 1040 Merced, Calif.	250
KRLC 1420 Lewiston, Idaho	100	KUJ 1370 Walla Walla, Wash.	100	KYW 1020 Philadelphia, Pa.	10000
KRLD 1040 Dallas, Texas	10000	KUMA 1420 Yuma, Ariz.	100	NAA 690 Arlington, Va.	1000
KRLH 1420 Midland, Texas	100	KUGA 1260 Siloam Springs, Ark.	1000	RDN 680 San Salvador, E. S.	500
KRMD 1310 Shreveport, La.	100	KUSD 890 Vermillion, S. D.	500	TGW 1210 Guatemala, Gua.	10000
KRRR 1500 Roseburg, Ore.	100	KUTA 1500 Salt Lake City, Utah	100	TXG 1400 Guatemala City	250
KRNT 1320 Des Moines, Iowa	500	KVCV 1200 Redding, Calif.	100	TIEP 850 San Jose, C. R.	500
KROC 1310 Rochester, Minn.	100	KVEC 1200 San Luis Obispo, Calif.	250		
KROW 930 Oakland, Calif.	1000				

NORTH AMERICAN B. C. STATIONS BY CALLS

TIFA 1050 San Jose, C. R.	75	WATL 1370 Atlanta, Ga.	100	WCAD 1220 Canton, N. Y.	500
TIFS 1441 Cartago, C. R.	7.5	WATR 1190 Waterbury, Conn.	100	WCAE 1220 Pittsburgh, Pa.	1000
TIGA 1014 Cartago, C. R.	30	WAVE 940 Louisville, Ky.	1000	WCAL 1250 Northfield, Minn.	1000
TIGH 1000 San Jose, C. R.	500	WAWZ 1350 Zarephath, N. J.	500	WCAM 1280 Camden, N. J.	500
TIGPH 650 San Jose, C. R.	1000	WAYX 1200 Waycross, Ga.	100	WCAD 600 Baltimore, Md.	500
TIRH 930 San Jose, C. R.	50	WAZL 1420 Hazleton, Pa.	100	WCAP 1280 Asbury Park, N. J.	500
TIVCA 1225 San Jose, C. R.	....	WBBA 890 West Lafayette, Ind.	500	WCAT 1200 Rapid City, S. D.	100
TIX 800 San Jose, C. R.	....	WBAL 760 Baltimore, Md.	2500	WCAU 1170 Philadelphia, Pa.	50000
VAS 685 Glace Bay, N. S.	2000	WBAL 1060 Baltimore, Md.	10000	WCAX 1200 Burlington, Vt.	100
VESEK 1185 Montmagny, Que.	10	WBAP 800 Fort Worth, Texas	50000	WCAZ 1070 Carthage, Ill.	100
VOAC 1065 St. John's, Nfld.	40	WBAX 1210 Wilkes-Barre, Pa.	100	WCBA 1440 Allentown, Pa.	500
VOAS 940 St. John's, Nfld.	100	WBBC 1400 Brooklyn, N. Y.	500	WCBD 1080 Waukegan, Ill.	5000
VOGY 840 St. John's, Nfld.	400	WBBL 1210 Richmond, Va.	100	WCBE 1370 Baltimore, Md.	100
VONF 1195 St. John's, Nfld.	500	WBMM 770 Chicago, Ill.	50000	WCBS 1420 Springfield, Ill.	100
VOWR 681 St. John's, Nfld.	500	WBRB 1300 Brooklyn, N. Y.	1000	WCCO 810 Minneapolis, Minn.	50000
WAAB 1410 Boston, Mass.	500	WBBZ 1200 Ponca City, Okla.	100	WCFL 970 Chicago, Ill.	5000
WAAF 920 Chicago, Ill.	1000	WBCM 1410 Bay City, Mich.	500	WCBS 580 Charleston, W. Va.	500
WAAT 940 Jersey City, N. J.	500	WBEN 900 Buffalo, N. Y.	1000	WCHV 1420 Charlottesville, Va.	100
WAAW 660 Omaha, Neb.	500	WBEO 1310 Marquette, Mich.	100	WCKY 1490 Covington, Ky.	5000
WABC 860 New York, N. Y.	50000	WBIG 1440 Greensboro, N. C.	500	WCLO 1200 Janessville, Wis.	100
WABI 1200 Bangor, Maine	100	WBLK 1370 Clarksburg, W. Va.	100	WCLS 1310 Joliet, Ill.	100
WABY 1370 Albany, N. Y.	100	WBLY 1210 Lima, Ohio	100	WCMI 1310 Ashland, Ky.	100
WACO 1420 Waco, Texas	100	WBNO 1200 New Orleans, La.	100	WCNW 1500 Brooklyn, N. Y.	100
WADC 1320 Akron, Ohio	1000	WBNS 1430 Columbus, Ohio	500	WCOA 1340 Pensacola, Fla.	500
WAGF 1370 Dothan, Ala.	250	WBNX 1350 New York, N. Y.	1000	WCOC 880 Meridian, Miss.	500
WAGM 1420 Presque Isle, Me.	100	WBNY 1370 Buffalo, N. Y.	100	WCOL 1210 Columbus, Ohio	100
WAIM 1200 Anderson, S. C.	100	WBOQ 860 New York, N. Y.	50000	WCOP 1120 Boston, Mass.	500
WALA 1380 Mobile, Ala.	500	WBOW 1310 Terre Haute, Ind.	100	WCPO 1200 Cincinnati, Ohio	100
WALR 1210 Zanesville, Ohio	100	WBRB 1210 Red Bank, N. J.	100	WCRW 1210 Chicago, Ill.	100
WAML 1310 Laurel, Miss.	100	WBRC 930 Birmingham, Ala.	1000	WCSC 1360 Charleston, S. C.	500
WAPI 1140 Birmingham, Ala.	5000	WBRE 1310 Wilkes-Barre, Pa.	100	WCSH 940 Portland, Me.	1000
WAPO 1420 Chattanooga, Tenn.	100	WBT 1080 Charlotte, N. C.	50000	WDAE 1220 Tampa, Fla.	1000
WARD 1400 Brooklyn, N. Y.	500	WBTM 1370 Danville, Va.	100	WDAF 610 Kansas City, Mo.	1000
WASH 1270 Grand Rapids, Mich.	500	WBZ 990 Boston, Mass.	50000	WDHA 1310 El Paso, Texas	100
		WBZA 990 Springfield, Mass.	1000		

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	WFBM 1230	1000	WHBI 1250	1000
Durham, N. C.		Indianapolis, Ind.		Newark, N. J.	
WDOO 1280	1000	WFBR 1270	500	WHBL 1300	250
Chattanooga, Tenn.		Baltimore, Md.		Sheboygan, Wis.	
WDRC 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.		Oleyn, 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.	
WEEI 590	1000	WGRI 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	WHLB 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 1080	50000
Battle Creek, Mich.		Chicago, Ill.		Des Moines, Iowa	
WEMP 1310	100	WGNV 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 Utica, N. Y.	100	WJW 1210 Akron, Ohio	100	WMAL 630 Washington, D. C.	250
WICC 600 Bridgeport, Conn.	500	WJZ 760 New York, N. Y.	50000	WMAQ 670 Chicago, Ill.	50000
WIL 1200 St. Louis, Mo.	100	WKAQ 1240 San Juan, P. R.	1000	WMAS 1420 Springfield, Mass.	100
WILL 580 Urbana, Ill.	250	WKAR 850 East Lansing, Mich.	1000	WMAZ 1180 Macon, Ga.	1000
WILM 1420 Wilmington, Del.	100	WKBB 1500 East Dubuque, Ill.	100	WMBE 1420 Detroit, Mich.	100
WIND 560 Gary, Ind.	1000	WKBH 1380 LaCrosse, Wis.	1000	WMBD 1440 Peoria, Ill.	500
WINS 1180 New York, N. Y.	1000	WKBI 1420 Cicero, Ill.	100	WMBG 1210 Richmond, Va.	100
WIOD 1300 Miami, Fla.	1000	WKBN 570 Youngstown, Ohio	500	WMBH 1420 Joplin, Mo.	100
WIP 610 Philadelphia, Pa.	1000	WKBO 1200 Harrisburg, Pa.	100	WMBI 1080 Chicago, Ill.	5000
WIRE 1400 Indianapolis, Ind.	500	WKBY 1500 Richmond, Ind.	100	WMBQ 1310 Auburn, N. Y.	100
WIS 560 Columbia, S. C.	1000	WKBW 1480 Buffalo, N. Y.	5000	WMBQ 1500 Brooklyn, N. Y.	100
WISN 1120 Milwaukee, Wis.	250	WKBZ 1500 Muskegon, Mich.	100	WMBR 1370 Jacksonville, Fla.	100
WJAC 1310 Johnstown, Pa.	100	WKEU 1500 Griffin, Ga.	100	WMC 780 Memphis, Tenn.	1000
WJAG 1060 Norfolk, Neb.	1000	WKOK 1210 Sunbury, Pa.	100	WMCA 570 New York, N. Y.	500
WJAR 890 Providence, R. I.	1000	WKRC 550 Cincinnati, Ohio	1000	WMEX 1500 Boston, Mass.	100
WJAS 1290 Pittsburgh, Pa.	1000	WKY 900 Oklahoma City, Okla.	1000	WMFD 1370 Wilmington, N. C.	100
WJAX 900 Jacksonville, Fla.	1000	WKZO 590 Kalamazoo, Mich.	1000	WMFF 1310 Plattsburg, N. Y.	250
WJAY 610 Cleveland, Ohio	500	WLAC 1470 Nashville, Tenn.	5000	WMFG 1210 Hibbing, Minn.	100
WJBC 1200 Bloomington, Ill.	100	WLAK 1310 Lakeland, Fla.	100	WMFJ 1420 Daytona Beach, Fla.	100
WJBK 1500 Detroit, Mich.	100	WLAP 1420 Lexington, Ky.	100	WMFN 1210 Clarksdale, Miss.	100
WJBL 1200 Decatur, Ill.	100	WLB 1250 Minneapolis, Minn.	1000	WMFO 1370 Decatur, Ala.	100
WJBO 1420 Baton Rouge, La.	100	WLBC 1310 Munete, Ind.	100	WMFR 1200 High Point, N. C.	100
WJBR 1420 Gastonia, N. C.	100	WLBK 1420 Kansas City, Kans.	100	WMIN 1370 St. Paul, Minn.	100
WJBW 1200 New Orleans, La.	100	WLBL 900 Stevens Point, Wis.	2500	WMNN 890 Fairmont, W. Va.	500
WJBY 1210 Gadsden, Ala.	100	WLBZ 620 Bangor, Me.	500	WMPC 1200 Lapeer, Mich.	100
WJDX 1270 Jackson, Miss.	1000	WLEU 1420 Erie, Pa.	100	WMSD 1420 Sheffield, Ala.	100
WJEJ 1210 Hagerstown, Md.	100	WLLH 1370 Lowell, Mass.	100	WMT 600 Cedar Rapids, Iowa	1000
WJIM 1210 Lansing, Mich.	100	WLMU 1210 Middlesboro, Ky.	100	WNAC 1230 Boston, Mass.	1000
WJJD 1130 Chicago, Ill.	20000	WLNH 1310 Laconia, N. H.	100	WNAD 1010 Norman, Okla.	1000
WJMS 1420 Ironwood, Mich.	100	WLS 870 Chicago, Ill.	50000	WNAK 570 Yankton, S. D.	1000
WJNO 1200 W. Palm Beach, Fla.	100	WLTH 1400 Brooklyn, N. Y.	500	WNBC 1380 New Britain, Conn.	250
WJR 750 Detroit, Mich.	50000	WLVA 1200 Lynchburg, Va.	100	WNBF 1500 Binghamton, N. Y.	100
WJRD 1200 Tuscaloosa, Ala.	100	WLW 700 Cincinnati, Ohio	500000	WNBH 1310 New Bedford, Mass.	100
WJSV 1460 Washington, D. C.	10000	WLWL 1100 New York, N. Y.	5000	WNBR 1430 Memphis, Tenn.	500

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.		Aguascalientes, Ags.	
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.		Aguascalientes, Ags.	
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		
Guajuato, 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.					

Eastern Time P. M.	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	23:00	23:15	23:30	23:45									
W2XAF, Solt'by, 9.530																																																									
W2XE, Wayne, 6.120																																																									
W2XE, Wayne, 11.830																																																									
W2XE, Wayne, 15.270																																																									
W2XE, Wayne, 17.760																																																									
W3XAU, Phila., 6.060																																																									
W3XAU, Phila., 9.590																																																									
W4XB, Miami, 6.040																																																									
W4XB, Miami, 6.040																																																									
W8XAL, Chinch'tl, 6.060																																																									
W8XK, Pittsburgh, 6.140																																																									
W8XK, Pittsburgh, 11.870																																																									
W8XK, Pittsburgh, 15.210																																																									
W9NF, Chicago, 6.100																																																									
XBDT, Mexico Cy., 6.000																																																									
XBDT, Mexico Cy., 7.340																																																									
XEDQ, Guadlra., 9.520																																																									
XEVI, Mexico Cy., 5.980																																																									
YVQ, Maracay, 6.672																																																									
YV2RC, Caracas, 5.800																																																									
YV3RC, Caracas, 6.165																																																									
YV4RC, Caracas, 6.375																																																									
YV5RMO, Mar'bo, 5.880																																																									
YV6RV, Valencia, 6.520																																																									
YV10RSC, S. Crsbl., 5.720																																																									
TPA4, Pontoise, 11.720																																																									
TPA3, Pontoise, 11.880																																																									

Hints on Tuning the Short Waves

It has been noted that shortwave reception follows certain definite trends. Stations between 5 and 7 megacycles favor darkness between the transmitter and the receiver. Transmitters working between about 8 and 10 megacycles are best when the station is in a night-time area and the receiver in daylight, so tuners should try for Europeans in this band in the early evening and for Australians near dawn. Below 10 megacycles the difficulty in tuning increases; here the path of the transmission should be as nearly as possible completely in daylight.

At night tune for South America between 5 and 10 megs. Europeans are good in the early evening and some of the higher powered Europeans are good all night. In the early morning tune for Australia and Asia between 6 and 10 megs. During the daytime tune for Europe, Africa and South America below 10 megacycles.

	Eastern Time	
	A. M.	
CHCX, Montreal, 6,005		00:00
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		11:45
DJA, Berlin, 9,560		
DJB, Berlin, 15,200		
DJD, Berlin, 11,770		
DJE, Berlin, 17,760		
DJN, Berlin, 9,540		
DJQ, Berlin, 15,280		
GSB, Daventry, 9,510		
GSD, Daventry, 11,750		
GSP, Daventry, 15,140		
GSG, Daventry, 17,790		
GSH, Daventry, 21,470		
GSO, Daventry, 15,180		
GSP, Daventry, 15,310		
HAS3, Budapest, 15,370		
HVA, Vatican City, 15,120		
JVA, Nazari, 10,740		
JVN, Nazari, 10,660		
PRI, Hiversum, 11,725		
RKI, Moscow, 15,090		
RNE, Moscow, 12,000		
RNE, Moscow, 12,000		
RVL5, Khabarovsk, 4,273		
TPA2, Paris, 15,250		
TPA3, Paris, 11,880		
TPA4, 11,720, Paris		
VR3ME, Sydney, 9,585		
VR3IR, Melbourne, 9,580		
VR3ME, Melbourne, 9,510		
VPD, Suva, 13,075		
W1XT, Mills, 9,570		
W2XAD, Schridy, 15,330		
W2XE, Wayne, 21,520		
W8XK, Pittsburg, 21,540		
W9XF, Chicago, 6,100		
YDA5, Bandoeng, 6,120		
	Sunday	
	Sunday	

The Beginners' Story of Radio

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.	23:00	23:15	23:30	23:45	00:00	00:15	00:30	00:45	01:00	01:15	01:30	01:45	02:00	02:15	02:30	02:45	03:00	03:15	03:30	03:45	04:00	04:15	04:30	04:45	05:00	05:15	05:30	05:45	06:00	06:15	06:30	06:45	07:00	07:15	07:30	07:45	08:00	08:15	08:30	08:45	09:00	09:15	09:30	09:45	10:00	10:15	10:30	10:45
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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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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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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, mortgages, 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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**There's a Real Future in Radio
for Well Trained Men**

Radio already gives jobs to more than 300,000 people. In 1935 over \$300,000,000 worth of sets, tubes and parts were sold—an increase of 20% over 1934! Over 1,100,000 auto Radios were sold in 1935, 25% more than in 1934! 22,000,000 homes are today equipped with radios, and every year millions of these sets go out of date and are replaced with newer models. Millions more need servicing, new tubes, repairs, etc. Broadcasting stations pay their employees (exclusive of artists) more than \$23,000,000 a year! And Radio

is a new industry, still growing fast! A few hundred \$30, \$50, \$75-a-week jobs have grown to thousands in less than 20 years.

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Broadcasting stations employ engineers, operators, station managers and pay up to \$5,000 a year. Spare time Radio set servicing pays as much as \$200 to \$500 a year—full time servicing jobs pay as much as \$30, \$50, \$75 a week. Many Radio Experts own their own full or part time Radio businesses. Radio manufacturers and jobbers employ testers, inspectors, foremen, engineers, servicemen, paying up to \$5,000 a year. Radio operators on ships get good pay, and see the world. Automobile, police, aviation, commercial Radio, and loud speaker systems offer good opportunities now and for the future. Television promises many good jobs soon. Men I trained have good jobs in these branches of Radio.

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ELEKTRIK-SAVER

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