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THE APRIL 1938

25<sup>c</sup>

# RADIO IN INDEX

The All-wave Radio Log

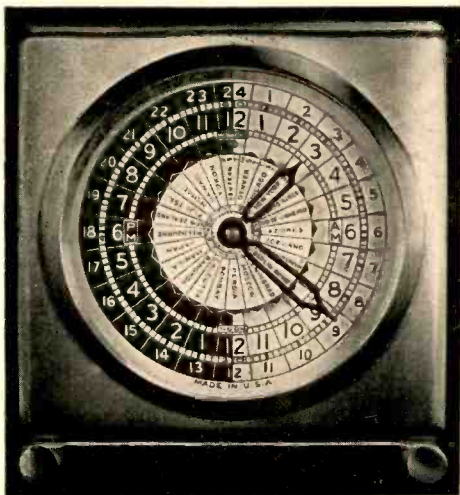


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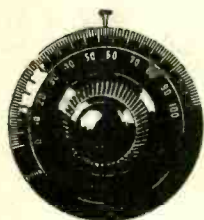
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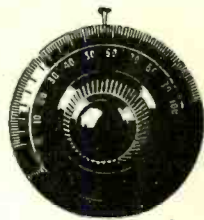
14717 Detroit Ave.,

Cleveland, Ohio

APRIL 1, 1938



# RADIO IN DEX



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FOURTEENTH YEAR

NUMBER 118

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# Globetrotting Via Shortwave

**W**E ARE sure that those of our readers who are familiar with the shortwave lists which were printed in RADEX in 1935 and 1936 will be pleased to see that we have resumed our old method of listing the high frequency stations. All the good features of our former index have been retained, and many improvements added, so now we believe we can truthfully say that the RADEX shortwave index is the most complete list published today.

There have been so many new stations added to the shortwave spectrum that we find it is no longer possible to list all the stations in one issue. While we do not like to divide the list, we recognize that a division is unavoidable if we are to provide all the information available about every station on the air.

Comments from our readers are invited concerning the new listing.

## Brazil ✓

We are informed by R. B. Oxrieder of State College, Pa. that station PSH, Radio Internacional do Brazil, P. O. Box 709, Rio de Janeiro, transmits daily from 6 to 9 pm., EST., on 10220 kcs. Their programs open and close with the Brazilian National Hymn. International Reply Coupons or unused postage stamps from any country are acceptable for verifications. This station has also been reported by RX25 N. Y.

A powerful Brazilian station heard on 6010 is believed by the reporter to be PRA8 at Recife (Pernambuco). This station comes on the air at about 4:30 pm., EST., and a clock strikes 7 o'clock at 5 pm., EST. (RX83 Can.).

PRA8, known as "A Vox do Norte," transmits on 6010 kcs. with 5000 watts. We are officially informed that PRA8 broadcasts a



*Radio announcers shorten the name of Marion Francis Charlesworth to Marion Francis when introducing her. She is the soloist heard with Frankie Masters' orchestra and Edgar A. Guest, the philosopher-poet, on "It Can Be Done."*

time signal at noon and 7 pm., Brazilian time, which seems to confirm the reception by our Canadian reporter.

## British Guiana ✓

A letter from the operators of VP3MR states that verifications are sent only when reporters submit the necessary International Reply Coupons. The address of this station is 16 Robb and Hincks Sts., Georgetown. Their schedule is given as, weekdays, 4:15 to 8:15 pm., and Sundays, 7:45 to 10:45 am., EST. (RX83 Can.).

## British Honduras

The new station ZIK2 at Belize, on 10600 kcs., is heard with good volume but through heavy interference, on its regular broadcasting

schedule, Tuesdays, Thursdays and Saturdays from 7:30 to 7:45 pm., EST. This station is owned by the British Honduras Government. (RX70 Colo.).

Chile ✓

Station "Otto Becker," CB1170, Santiago, Chile, transmits daily on 11700 kcs., relaying the programs of CB89. This one kilowatt station transmits on Sundays from 9 am. to 11 pm., and on weekdays from 10 am. to 2 pm., and from 4 pm. to 11 pm., EST. CB1170 is owned by Otto Becker, Ltda., Calle Ahumada 113.

Colombia ✓

Many of the Colombian stations are changing their call letters. The latest changes recorded indicate that HJ2ABC, 4790 kcs., has been changed to HJ7ABC. HJ6ABB are the new call letters of former HJ4ABB on 6108 kcs. HJ4ABC is now known as HJ6ABC. (RX93 N. Y.).

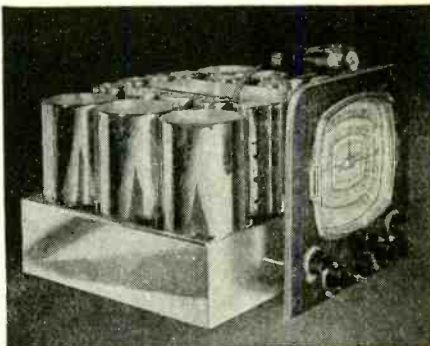
A new station, HJ4ABU at Medellin, is being heard on several frequencies, between 8600 and 8650 kcs. The time is reported as from 7:30 to 10 p.m., EST. This station is operated by the University of Colombia. (RX51 Mass., RX85 Ohio).

HJ7ABD, "Radio Bucaramanga," Bucaramanga, Colombia, transmits on 9630 and 1130 kcs. from 6 to 11 pm. on weekdays, and from 7:30 to 9:30 pm. on Sundays. Their programs conclude with a medley of national airs, named "La Guabina." (RX83 Can.).

Official information from Colombia discloses that HJ3ABD, "Emisora Nueva Granada," at Bogota, broadcasts, with one kilowatt of power, on 4841 kcs. Broadcasts close with the selection "Para ti Rio Rita," and this is followed by the Colombian National Anthem.

HJ3ABX, also at Bogota, transmits on either of two frequencies, 6015 or 6122 kcs., from 6 to 11 pm.

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on Sundays and from 5:30 to 11 pm. on weekdays. "Indian Love Call" from Rose Marie terminates the day's broadcasts, and notes from the Colombian National Anthem are played at various times throughout the broadcast. "La Voz de Colombia," as this station is known, is owned by Cipriano Rios Hoyos.

HJ5ABD, 6085 kcs., "La Voz del Valle," signs off with The "Good-night Waltz." This station transmits on Mondays, Wednesday and Fridays from 7 to 10:30 pm., EST.

"La Voz de Armenia," HJ6ABH, Armenia, transmitting on 9520 kcs., relays the programs of HJ6ABN on 1363 kcs. Programs are radiated from 8 to 11 am. and from 6 to 10 pm. EST., daily.

#### Costa Rica ✓

TI4NRH, "The Voice of Costa Rica," at Heredia, Costa Rica, transmits on 9670 kcs. on Tuesdays, Thursdays, and Saturdays from 9 to 10 pm., EST., and on Sundays from 7 to 8 am. This 500 watt station is owned by Amando Cespedes Marin, who celebrates his tenth anniversary of shortwave broadcasting on May 4 of this year. Sr. Cespedes recently announced that he has received 92,000 reports during the past ten years, and he wants 8000 more so he can have an even 100,000. (RX51 Mass., RX61 Ariz., RX89 Ohio).

#### Cuba ✓

The following Cuban stations have all been heard off their assigned frequencies. COBC, heard on 9970, 10040 and 9450 kcs. COBX is heard on 9210 and 9195 kcs. COCQ, the worst roamer of the bunch, comes in at 9750, 9210, 10010, 10310, 9600, 9910 and 10260 kcs. In other words, this station may be heard anyplace between 9200 and 10300 kcs. COCM has been logged on 9833 and 9350, and COBZ drifts between 9000 and 9030 kcs. (RX70 Colo.).

#### Curacao

PJC2 in Willemstad, Curacao, Netherland West Indies, transmits on 9430 kcs. on Sundays from 10:30 am. to 12:30 pm., EST., and is also heard irregularly in the evenings. (RX93 N. Y.).

#### Dominican Republic ✓

Station HIZ in Trujillo on 6310 kcs. operates on weekdays from 11:10 am. to 2:10 pm., and from 4:40 to 9:40 pm. The Sunday schedule is from 11:40 am. to 2:40 pm., EST. (RX93 N. Y.).

In San Francisco de Macoris, HI4V on 6450 kcs. transmits daily from 2:40 to 4:40 pm, and from 7:10 to 9:10 pm., EST. (RX93 N. Y.).

Radio "La Opinion," Trujillo City, station HIG, broadcasts on 6280 and 9300 kcs. simultaneously from 7 to 9 am., noon to 2:30 pm. and 4 to 9 pm., EST. Power of 150 watts is radiated on 6280, while 250 watts are radiated on 9300 kcs. The owner is Andres Cordero Puello, and studios are maintained at Santiago Rodriguez No. 12.

HIN, "Broadcasting Nacional," Trujillo, employs the shortwave frequency of 6243 kcs. and the broadcast band frequency of 1090 kcs., we have been informed. This station is owned by the Dominican Government and managed by Frank Hatton. Programs are radiated on weekdays only between the hours of noon and 2:15 pm., and 5:45 pm. to 10 pm., EST.

Further official information on some of the Dominican stations is tabulated below:

HI3U, 6015 kcs., 125 watts, Santiago de los Caballeros, announces as "La Voz del Comercio." They sign off with the organ selection "Maria la O." The schedule is daily from 7:15 to 8:45 am., 11:45 am. to 1:45 pm., and 4:45 to 6:45 pm.

HI5N, 6150 kcs., 100 watts, Moca City, announces as "La Voz de Moca." An interval signal of five

strokes on a gong is employed and they sign off with the national anthem. The schedule, daily from 6:15 am. to 7:45 am., 11:45 am. to 1:45 pm., 5:45 pm. to 7:45 pm.

HI7P, 6800 kcs., 25 watts, Trujillo, announces as "Emisora Diario del Comercio." Programs end with a marimba selection, "Lempira." Studios are located at Calle Jose Reyes 35, and programs are broadcast on Sundays from 10 to 11 am., and on weekdays from 1 to 2 pm. and from 7 to 9 pm.

HI8Q, 6206 kcs., 200 watts, Trujillo, announces as "La Voz de la Philco." The national anthem closes the programs and a gong is used as an interval signal. The studio address is Av. Wenceslao Alvarez No. 3, Reparto Independencia. The schedule is 6 to 10 pm. on Sundays, and 8:30 am. to noon and 2:30 to 5 pm. on weekdays.

HI9B, 5885 kcs. 200 watts, Santiago de los Caballeros, identifies itself by the slogan "Broadcasting Hotel Mercedes." Their schedule is 11:45 am. to 2:15 pm., and 4:45 to 7:45 pm.

#### Ecuador ✓

A seldom-heard Quito station, HC1ETC, has been reported on 9350 kcs. It has been heard several times near 8 pm. EST. (RX93 N. Y.).

HC2RL, "Quinta Piedad," at Guayaquil, employs 200 watts on the frequency of 6668 kcs. The national anthem terminates the broadcasts and the salutation "Hello America" is used frequently during the broadcasts. Dr. Roberto Levi is the manager of the station, and the address is Casilla 759. Programs are radiated on Sundays from 5:30 to 7:30 pm., and on Tuesdays from 9 to 11 pm., EST.

#### France ✓

The new high powered French stations at Essarts have been heard testing in the afternoons, relaying the same programs as TPA3. Us-

ing the slogan "Radio Coloniale," it has been heard on 9550 and 15130 kcs. News is broadcast in English at 3:10 pm. on 15130. (RX87 Pa., RX93 N. Y.).

#### French Somaliland

"One of my latest veries is from FZE8, Djibouti, French Somaliland, verifying my report of reception. This station is on 17280 kcs., and broadcasts only on the first Thursday of every month from 8 to 8:30 am., EST." (RX41 La.).

#### Great Britain ✓

Contracts have been let for the construction of two more stations for Daventry. The new transmitters will be used in connection with the foreign language broadcasts. It is believed they will be of 100 kilowatts power.

#### Guatemala ✓

The Guatemala City station TGWA seems to be as good in the afternoons as it is in the evenings. Their marimba programs from 3 to 3:30 pm., EST., are exceptionally well received on 15170 kcs. (RX93 N. Y.).

#### Honduras ✓

"La Voz de Honduras" at Tegucigalpa, station HRN, broadcasts on 5875 and 1250 kcs., employing 500 watts on shortwaves and 50 watts on the BCB. Their programs conclude with Ted Lewis' recording of the "Goodnight Waltz." HRN transmits daily from 7 to 10:30 pm. EST.

#### Iceland

The Sunday afternoon transmissions from Reykjavik continue to be heard. TFJ on 12235 kcs. transmits from 1:40 to 2:30 pm., and is heard along the Atlantic coast. (RX93 N. Y.).

#### India

The most important shortwave news this month comes from India. VUD2 at Delhi is the first of the new Indian shortwave stations to come on the air, and it has been reported throughout eastern United

States. All the reporters give the frequency as 9590 kcs., and they all agree that the station is audible only from 9:30 until about 10 pm., EST. Their broadcasting day starts at 9:30 pm., with chimes, and then a clock strikes 8 o'clock (8 am. in Delhi, the next morning). The programs consist of native and oriental music, some of the selections lasting from fifteen to twenty minutes. Announcements are in one of the Hindu languages, and in English.

VUD fades out in most localities right after 10 o'clock, but one listener reports holding it until 10:30 pm. PCJ prevents reception on Wednesday nights, and GSC sometimes interferes. Delhi is heard between GSC and HP5J. (RX23 Minn., RX35 N. J., RX45 R. I., RX51 Mass., RX93 N. Y., RX94 Mich.).

#### Italy ✓

2R0 in Rome is now relayed by two stations, IRF on 9830 kcs., and experimental station IQY on 11870 kcs. Reports of reception of these test broadcasts are requested. All three stations are heard with very good volume between 11 am. and 6 pm., and sometimes even until 9 pm., EST. A program for South America is broadcast from 6 to 7:30 pm., and the North American broadcast follows, ending at 9 pm. News is given in English at the beginning of the American Hour. (RX35 N. J., RX49 Mass., RX51 Mass., RX72 Ill., RX76 Nebr., RX87 Pa., RX92 D. C., RX93 N. Y.).

#### Jamaica ✓

The two police stations in Jamaica, VPH at Kingston and VPC at Midland, are frequently heard on 1600 kcs. VPC signs off at about 6:15 pm. and VPH at about 6:18 pm., EST. (RX92 D. C.).

#### Japan

JZJ on 11800 kcs. has been heard on its overseas broadcast between 7 and 7:30 am. with very good volume. In Detroit it was reported

with volume equal to that of WWJ. An English announcement is made at 7:30, and the national anthem, "Kimagayo," closes the broadcasts. All the Japanese stations acknowledge reports of reception. The transmitters are situated at Nazaki, but the mailing address is in care of the studios, The Broadcasting Corporation of Japan, Atago-yama, Tokyo.

JVN, also at Nazaki, has been heard frequently between 4 and 7:45 am., on its frequency of 10660.

Reports on Japanese stations were received from RX25 N. Y., RX51 Mass., RX91 Ohio, RX94 Mich.

#### Kwang Tung

That elusive station in Dairen, JDY on 9925, can sometimes be heard between 5:30 and 8 am. (RX51 Mass.).

#### Mexico ✓

Authentic information concerning several Mexican stations is to hand. A few new stations, so far unreported, are included in the data which follows:

XEBQ on 6030 kcs., 100 watts, is located in Mazatlan, Sin., and goes by the slogan "La Voz del Pacifico." This broadcaster employs four chimes as an interval signal, and signs off with the Luxemburg March. The schedule for transmissions is 8 to 9:30 am., 2 to 4 pm., and 9 pm. to midnight daily.

XECU in Guadalajara, Jal., "Estacion del Viajero del Mundo," employing 250 watts, works on 6075 kcs. from 9 am. to 11 pm. daily. The programs open with "Humoresque"; the interval signal is a two-tone train whistle, and they sign off with the selection "Adios, Mariquita Linda."

XEDQ, "Speaking to the Continents from Guadalajara," in Guadalajara, Jal., relays the programs of XED on 9520 kcs. with a half kilowatt of power. An interval signal of four chimes is used, and their





Mary Eastman, lyric soprano, and Bill Perry, tenor, star in the "Saturday Night Serenade," heard each Saturday night over a nationwide Columbia network at 9:30 pm. Miss Eastman starred in stage and operatic productions before turning to a microphone career, and Perry's rise is unique because he switched from being a radio station manager to singer but a few years ago.

hours of operation are from noon to 4:30 pm., and from 8 pm. to midnight, daily.

Tiny station XEFT, 20 watts, in Veracruz, transmits on 9550 kcs. Known as "La Voz de Veracruz," they broadcast daily from 10:30 am. to 4:30 pm., and from 7:30 pm. to 12:30 am.

XEGW, in Mexico City, broadcasts, or, will broadcast, if not yet on the air, on 6110 kcs. with 250 watts. The owner is Jose G. Garza Fox, San Juan de Letran 81, Mexico City.

#### Netherland East Indies

The Japanese stations YDB (9550), JLVN (11000) and YDC (15150) broadcast jointly from 6 to 8:30 am. daily, and on Saturdays and Sundays from 6 to 11 am., EST. (RX93 N. Y., RX51 Mass.).

#### Nicaragua

Nicaraguan stations are not always easy to receive, but two are suggested as possible catches, YNGU and YNLG, both in Managua.

YNGU, "Alma Nica," transmits on 9300 kcs. with 50 watts of power, on two schedules. The first transmission is from noon to 2 pm., and the second from 5 to 6 pm., EST., daily except Sundays. The interval signal is one stroke on a gong.

YNLG, 6610 kcs., radiates a kilowatt of power, on their thrice-daily schedule. Their programs open with a bugle call sounded three times. The morning and afternoon sessions close with "Till We Meet Again," and the night broadcast terminates with "Good Night, Ladies." Their schedule is daily, 8 to 10 am., 1 to 3 pm. and 6 pm. to midnight.

#### Peru

Three stations are operated by Radio Nacional de Peru. The stations, according to a recent verification card, are OAX4A on 854, OAX4T on 9562 and OAX4Z on 6082 kcs. OAX4T is scheduled to transmit daily from 11:30 am. to 1:30 pm., but a Canadian listener reports them once at 7 am., EST. OAX4Z broadcasts from 7 to 11:30 pm. The address of these stations is Av. Petit Thouars 447, Lima. (RXS3 Can., RX87 Pa.).

OAX4J, Lima, relays the programs of OAX4I daily from noon to 3 pm. and from 5 to 11 pm., EST. OAX4J transmits with 500 watts power on 9330 kcs. The opening selection is "Broadway Rhythm," the interval signal is three chimes, and the closing selection is "Whistler and His Dog." (RX72 Ill.).

#### Poland

SPD on 11535 and SPW on 13635 kcs., both in Warsaw, are now heard daily from 6 to 8 pm., and on Saturdays until 9 p.m. Code interference is present on both frequencies. All

reports are answered by a handsome card for each station. (RX49 Mass.).

#### St. Kitts

Station VP2LO is operated by the ICA Radio Service Laboratories for the Caribbean Broadcasting Service, Basseterre, St. Kitts, British West Indies. Our informant, R. B. Oxrieder of State College, Pa., says that the programs open with the selection "Rule Britannia" and close with "God Save The King." VP2LO works with 500 watts on 6380 kcs. daily from 4 to 4:45 pm., EST., and on Sundays from 10 to 10:45 am. Mr. Oxrieder believes that this schedule, mentioned in the station's letter, is not regularly maintained, as he has heard them irregularly in the evenings after 8 pm. Reports addressed to P. O. Box 88 will be acknowledged; International Reply Coupons are requested.

#### Spain ✓

The schedule of EAR in Madrid, according to a letter received by R. B. Oxrieder of 122 E. Hamilton Ave., State College, Pa., starts at 7:30 pm. daily, and another broadcast commences at 9:30 pm. on Monday, Tuesday, Thursday and Saturday. The Saturday program is broadcast in German.

EAR broadcasts on 9480 kcs. with 20 kilowatts of power. All reports should be addressed to Foreign Broadcasts, Medinaceli 6, Madrid. (RX49 Mass., RX87 Pa.).

#### Taiwan

JFAK at Taihoku advises that since October 1st, 1937, Taiwan has been observing the same time as Japan. It was formerly one hour behind Japanese time. JFAK's programs are relayed until approximately 8:15 am., EST., by JIB on 10535 kcs., and also by JFO at Itabushi on 9636 kcs. (RX7 New Zealand).

Station JFO has been heard on 9630 kcs. by RX61 Ariz.

#### Union of South Africa

The South African stations continue to come in well on their 11:45 to 12:45 (midnight) broadcasts. ZRH at Roberts Heights (Pretoria) on 9523 kcs., and ZRK at Klipheuvell (Cape Town) are the best of the four stations. Johannesburg, 200 watts, and Durban, 10 watts, have not been reported. (RX25 N. Y., RX61 Ariz., RX76 Nebr., RX86 Mass.).

#### United States ✓

The World Wide Broadcasting Corporation and the General Electric Company have been granted permission to transmit on the newly allocated "Pan-American Frequencies." The World Wide Corporation, operator of W1XAL, was granted 11730 and 15130 kcs., and General Electric, operator of W2XAF, was given 9950 and 21500 kcs. W1XAL employs 20 kilowatts and the GE station, 100 kilowatts.

These licenses were granted under several conditions, as follows: the programs transmitted by W1XAL and W2XAF must be directed to Pan American countries; there shall be no commercial or advertising announcements, nor no mention of names of sponsors; at least three hours shall be the minimum time employed by each station daily; and they must be willing to share time with any other stations which might be assigned.

W1XAL on 11730 has already been reported by several readers. All transmissions from W1XAL are preceded by a signal consisting of six musical notes, repeated every ten seconds, for ten minutes before the actual broadcast commences. Reports on these experimental transmissions are requested, and they will be answered. The address is the University Club, Boston, Mass. (RX51 Mass., RX93 N. Y., RX96 Ill.).

The Technical Supervisor of

W3XAU, Mr. J. G. Leitch, furnishes us with the revised schedule of this station. W3XAU transmits daily from 8 to 11 pm. on 6060 kcs., and daily from 12 noon to 8 pm., and from 11 pm. to midnight, on 9590 kcs.

An FCC Examiner has recommended that a construction permit be granted to the Church of Jesus Christ of Latter-Day Saints, at Salt Lake City, to erect a 50 kilowatt station to transmit on 6020, 9510, 11710, 15170 and 25675 kcs.

Two Press Wireless stations have resumed voice tests. The Hicksville, N. Y. station, W2XGB transmits on 8655 and 17310 kcs., and W9XBH at Elgin, Ill., is heard on 12720 kcs. (RX37 D. C., RX73 Ohio).

"In response to a report sent to W1XK, I received a letter stating that the Westinghouse shortwave stations have discontinued the practice of verifying reports." (RX92 D. C.).

W9XF and W3XAL are working on a slightly revised schedule. W9XF on 6100 signs off at 5:45 pm., and W3XAL in Bound Brook, N. J., comes on the air ten minutes later. W9XF returns to the air at 1:05 am. for an hour's broadcasting. (RX93 N. Y.).

A new telephone station on 2500 kcs. has been logged. It is KNKA, at the North Rim on the Grand Canyon, Arizona. It was heard with an R9 signal near 10:25 one evening. (RX34 Kans.).

### Uruguay ✓

Official information on the two Uruguayan shortwave stations has been received from our representative there. CXA8, in the city of Colonia, is owned by Radio Belgrano of Buenos Aires, Argentina. CXA8 broadcasts on 9510 kcs. with 2500 watts of power; their slogan is "Real de San Carlos." Programs are transmitted from 6 am. until 10 pm., EST.

The other shortwaver is CXA2, 6000 kcs., Montevideo. They broadcast, with 5 kilowatts, from 10 am. to 10 pm., EST. Their address is Cia. de Radiopublicidad Continental, Calle J. C. Gomez 1431.

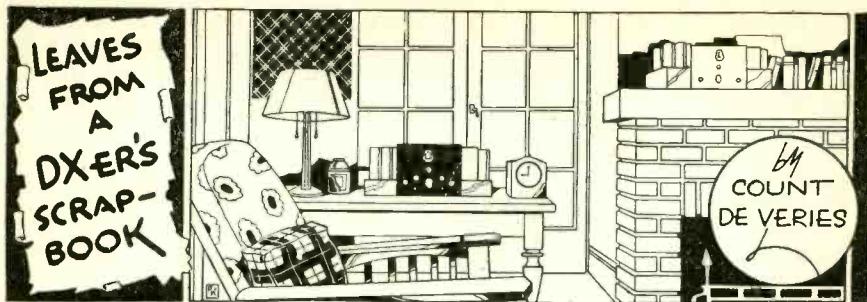
### Apex

A schedule of daily broadcasts was inaugurated late in February from the new Philadelphia apex station W3XIR. Located on the top of a building at 1616 Chestnut St., it is expected to serve an area of between 20 and 25 miles. W3XIR operates with 100 watts on one of four frequencies, 31.6, 35.6, 38.6 or 41 megacycles. (RX84 Pa.).

WWJ of Detroit announces they will furnish information on an adapter which will make ultra-high frequency reception possible on any radio set.

### The Reporters

- RX23, Carl and Ann Eder, Willmar, Minn.
- RX25, Geo. Nahas, 147 Seeley St., Brooklyn, N. Y.
- RX34, Martin Olthoff, Independence, Kans.
- RX35, Albert Steinmetz, Bayonne, N. J.
- RX37, David Hill, Washington, D. C.
- RX41, A. V. Deterly, Baton Rouge, La.
- RX45, Frederick A. Wallace, Jr., Albion, R. I.
- RX49, Kenneth Morey, Easthampton, Mass.
- RX51, Gilbert L. Harris, North Adams, Mass.
- RX61, Francis McDonald, Tucson, Ariz.
- RX70, W. F. Cornwell, Englewood, Colo.
- RX72, Gail T. Beyer, Chicago, Ill.
- RX73, Helen Lind, Lakewood, Ohio
- RX76, Edward Danielson, Jr., Pawnee City, Nebr.
- RX83, Wm. Snook, Dartmouth, N. S.
- RX84, Francis Coradetti, Narberth, Pa.
- RX85, J. E. Gardner, Cleveland, Ohio
- RX86, Matthew E. Lashner, Lawrence, Mass.
- RX87, Arthur M. Hankins, Latrobe, Pa.
- RX89, Russell E. Geiger, Youngstown, Ohio
- RX91, Ralph Heath, Peninsula, Ohio
- RX92, Melvin L. Jacobson, Washington, D. C.
- RX93, E. Leisering, Jr., Brooklyn, N. Y.
- RX94, Geo. K. Glass, Detroit, Mich.
- RX96, Justus Schlichting, Glencoe, Ill.



**N**OT every letter which crosses this desk reaches print in the columns of RADEX. Some are from readers who express opinions or give advice, and do not wish to be quoted. Others ask questions which can best be answered by mail. Still more come from old DX friends, many of them long since inactive as dial-twisters, who pass the time of day with a cheery line or three.

Among the question-askers there are many who have just discovered RADEX on the newsstands and hastened to ask, "What is this thing you call DXing? How do you get started? What do you get out of it?" And one can't help but feel that there is a definite connection between the queries of the young DXers and the "remember when" letters from the old-timers.

By a fundamental law of Nature, all of these old-timers were once young DXers, just starting down the road of the Midnight Marauders. Five or ten years ago, they were asking the same questions which puzzle the neophytes of today. And it is logical to assume that the answers to their queries determined the extent of their careers as Sleepless Knights.

Some of them may have been fortunate in receiving good advice, and their interest in the hobby today is a lasting testimonial to the sound-

ness of the counsel given to them. Perhaps a few more were lucky enough to stumble on the right path, and so were off to a good start. And there are hundreds of others who, for one reason or another, failed to get all that DXing has to offer its devotees.

Somehow or other, you can't help feeling sorry for the fellows who have gradually dropped out of the game. A few years back, they were full of enthusiasm. Every available moment was spent at the dials of their receivers. Every addition to their logs was welcomed as a newfound friend, and the daily mail was eagerly scanned for incoming verifications. Proud were they of their achievements, great or small, and they did get a tremendous thrill out of DXing.

There came a time, however, when their reports were less frequent. The former flood of tips and ideas on how to hear trans-oceanic stations were missing. New broadcasters would come on the air and go unreported, unverified. Time spent at their sets would be reckoned as so many days for the entire season, instead of for a month or a week. And eventually you wouldn't hear of them any more.

Many have been the reasons advanced for this gradual loss of DX interest. Some of the younger fel-

lows would get married, settle down, fail to find time for regular tricks at their dials. Others found that business interfered. Poor locations, local noise, sun spots, all-nighters, frequency checks—these and a score of other evils have come in for a share of the blame.

But granting that there are unavoidable factors which do much to limit the DX life of a listener, the notion persists that the mortality rate would be a great deal lower if the individual DXer could regulate his participation in the hobby to meet his own particular requirements.

### **Determine Main Interest**

There are many phases to DXing, each of which will appeal to a certain group of listeners. Some DXers will find one particular phase which is sufficient to hold their entire interest, while others are not satisfied until their activities include several of the angles.

Many listeners get their principal thrill solely from the act of dialing. They enjoy tuning to the far corners of the continent, they like to drop in on remote stations for a few minutes or a few hours. Their pleasure is derived from hearing new voices and strange music from across the frozen miles of a winter night. They may listen to the same station or group of stations many times, and it matters little whether they build up an impressive log of new call letters. Their DX travels are taken when the spirit moves them. Never are they forced to maintain a grueling schedule.

Some DXers are found at the opposite end of the hobby. They are the listeners who are determined to build up the largest possible log of stations, whether they be local, semi-distant or foreign. No effort is spared in the mad search for new catches. Every available moment is spent at the dials. Interference-

ridden channels are carefully combed night after night. Static and local noise provide no barrier to the feverish conquest of the broadcast spectrum.

Other listeners are just as determined to build up impressive logs, but they confine their activities to stations at greater distances. Broadcasters less than 1500 miles distant are "purely local stuff." To them, there is no thrill in hearing the lowly hundred-watter a few hundred miles over the horizon, and so their activities are concentrated on trans-continental and foreign reception. During the early evening hours, they patiently dial the various frequencies, always looking for the stray European and South American signal which may penetrate the barrage of domestic stations. During the mid-winter months, a careful watch is kept between 1 and 3 a.m., EST, for that is the time when many trans-Atlantics are heard. And in the spring and fall, the hour before daybreak frequently rewards the persistent dialer with a new station from New Zealand or Australia.

And then there is the methodical DXer. He is the chap who is careful to plan his activities well in advance. He works out schedules for his dial-twisting, establishes definite goals for reception. He picks crowded channels and attempts to log—and perhaps verify—every station listed. Occasionally, he tries to log every station of more than 250 watts power. Usually he endeavors to have at least one station in each state and province, and then follows up this angle by seeing how many states and provinces can be completely verified. He may be particularly anxious to see how many hundred-watters and 2000-milers can be listed. Or he may shoot the whole works and attempt the creditable task of verifying all the stations

## Before



*Here we see Bill Compton as he looks to his mother and to people who see him on the way to the Columbia Playhouse. Bill, better known as "Tizzie Lish," gets his inspirations for his monologues, not from Joe Miller's joke book, but from any cook book that happens to be handy.*

in the United States. He may never reach this goal, but he will think in terms of "so many active stations to go."

Regardless of how he looks at the hobby, the average DXer can usually determine which type of activity is best suited to his own taste. And if he is wise, he will decide to devote his entire attention to that particular phase.

### Shall We Verify?

Frequently DXers are unable to

decide whether they will verify the stations they hear. No matter which phase of the hobby interests them most, this is a decision which can do much to determine the duration of the listener's activities.

Many Sleepless Knights contend that verifications are a needless source of worry and expense. To them, the chief thrill of DXing is the actual process of tuning. They are delighted when a new call is heard. Scrupulously honest, they take pains to make sure of a station's identity before entering it in their log. Once certain that they have really heard a certain broadcaster, they feel that there is no need for any additional proof of reception. Essentially, they DX for their own pleasure and they obtain no added satisfaction from a card or letter of confirmation.

Verifications can be a very expensive luxury. Over a thousand veries are in my files today and the record shows that they represent an actual postage bill of better than a hundred dollars. The cheapest possible confirmation is one from a station in the United States—and that costs six cents. Foreign verifications run anywhere from eight to fourteen cents apiece, depending upon how the request was made, and that cost covers only the initial request. Scores of veries were obtained only after countless letters and numerous enclosures of cash or reply coupons. Add on the cost of your own stationery, consider the actual time involved in writing the reports and follow-ups, and the collecting of confirmations becomes expensive.

Obviously, if a verification means little or nothing to a DXer, he would indeed be foolish to go to the trouble and expense of obtaining them. If he did, he would soon find his interest on the wane.

For many listeners, veries offer a very tangible return for their in-

vestment of time and money. While it is true that a confirmation constitutes a rather definite proof of reception, it is seldom necessary to pull out a card or letter just to *prove* that a station has been heard. Probably it is more satisfactory to be able to say that OAX4A has been verified, than to report merely that the station had been heard on a certain date. Certainly it is an accomplishment to be able to show a distant broadcaster that you have heard his signals, and it is always nice to receive confirmation of this fact.

Verifications bring some DXers far more than mere proof of reception. They are souvenirs of long nights spent at the dials. They bring back memories of thrilling catches and exciting reception. Instead of mere notations in a log book, they provide concrete evidence that a station not only was heard, but that it was reported correctly. To every confirmation there is a bit of history. And always there is the satisfaction that it was really earned.

When the expense of verifications must be considered, some DXers compromise by verifying only certain types of stations—those over 2000 miles distant, hundred-watters, trans-oceanic stations, and so on.

But whatever the circumstances, it is for the individual listener to decide whether a collection of veries will have any definite value or significance to him. When his decision is made, let him follow his own tastes and concentrate on the type of DXing which most appeals to him. Then he will find that DXing can be a most fascinating pastime.

#### **Don't Overdo It**

Any hobby—be it stamp collecting, photography, athletics or DXing—should afford a means of getting away from the monotony of everyday life. While it need not be a complete relaxation, it should never be

tiring. The enthusiast should be able to take part in it when he so desires, and still drop it for a time without losing his interest.

Perhaps the greatest mistake a DXer can make is that of over-indulgence. Roaming the midnight air lanes can be a fascinating journey for the new listener. Tuning out to the far corners of the globe brings real thrills and it is easy to become too absorbed in the task of logging new catches.

Wise indeed is the DXer who is able to curb his enthusiasm and

## After



*"Hello folkses! This is Tizzie Lish!" Here Tizzie is all set to broadcast her crazy recipes for the "Watch The Fun Go By" audiences. She's an attractive little miss, don't you think—or don't you?"*

take his listenening in a natural stride. It is never absolutely necessary to hear every available station during the course of a winter season. Most broadcasters are on the air for many years, and there is always a second or a third chance to hear them.

For a while, a listener may think that building up a log in the shortest possible time is the greatest thing in the world. It is a fine experience to be able to boast that an imposing total of 600 or 700 stations had been heard in two or three years. Annual additions of a hundred or so new catches will inflate most any DXer's ego. But the time must come when the new stations are harder to hear and the season's total gets smaller and smaller, and then the DXer is likely to regret that he didn't take things easier on the way up.

Not so many years ago, RADEX contained many reports from a DXer who was about tops at the time. Starting during the 1930-31 season, his log increased at an astonishing rate. Blessed with a good location, a fine receiver and a world of patience and perseverance, he showed a clean pair of heels to other listeners of the day. He was among the first to enjoy reliable reception of the Europeans, and his list of South Americans, Aussies and Zedders was a tribute to his skill at the dials. Midway in the 1933-34 season, his veries totalled close to 800. As most of the domestic stations had been logged without benefit of the frequency checks, the record was truly amazing. Believing him to be sitting on top of the DX world, a lot of listeners would have swapped places without hesitation.

But early in 1934, he suddenly lost interest, stopped all dial twisting, gave up the hobby completely. In the last four years, he hasn't tuned for a single new station, and the

chances are that never again will he park on a channel waiting for the announcement that may mean another entry in his log.

What caused this sudden about-face? What turned abounding enthusiasm into virtual contempt for his chosen hobby? The chances are excellent that he had tried to crowd a decade of leisurely dialing into a short three years. Instead of nights when good listening brought three or four new catches, he saw weeks go by with very few additions to his log. Hour after hour during the long, cold nights, his straining ears would hear noise and static and lots of stations which he had logged in the past. Those early-morning tricks at his receiver suddenly turned from exciting adventures to brooding hours of inactivity, when troubles were magnified. And next day his heavy eyes found no entries in his log to compensate for the loss of sleep. Had there been more stations to hear, some incentive to crawl out of a warm bed at two o'clock, his interest probably would have continued unabated.

Undoubtedly there are many similar cases on record today, and there is no question but what not a few currently-active listeners may soon loose interest for identical reasons. And what a pity it is that an excess of enthusiasm may destroy interest in a hobby which can pay remarkable dividends.

And so it is that careful attention is paid to questions from those who have just heard of DXing and would like to give it a try. If suggestions will enable them to shun the mistakes of others, their interest will be sustained and they can look forward to many years of profitable participation in this pastime. And the ideas passed along to these neophytes may well be considered by the older hands before it is too late.



# SHALL I Use a GROUND?

• • • By B. FRANCIS DASHIELL

**I**T SEEMS that on every hand we hear and read of the latest ideas about antennas — single-wire, doublets, double-doublets and multi-doublets. We are told how to eliminate noise and static, how to arrange antennas so as to receive from certain directions, all about standing waves, field patterns and skip distances. Of course, all this often is enlightening and necessary for our guidance. But it does seem strange, however, that the lowly ground connection has escaped discussion. After all, the ground's role in radio presents quite a few important aspects.

Not so long ago all aerials operated in connection with the earth. These were called grounded antennas. Many are still in use, for groundless antennas are those of the doublet or "Hertz" types, specifically designed for all-wave reception and the elimination of noise that may be picked up by the lead-in wires. The older or "Marconi" antenna, consisting of single wire and lead in an inverted "L" or "T" arrangement, requires a ground in nearly every case of radio reception.

## Aerial and Ground

A ground provides a radio receiver with a point where no potential difference exists. In fact, if a receiver is to work perfectly, all those points which are at the same radio-frequency potential as the earth, as well as the negative side of the power supply, should be connected together at one place or to a heavy low-resistance metal chassis. If these different points vary in resistance they will, then, fail to have the same potential as the earth, and trouble occurs in the form of noise,

oscillation or poor reception. In other words, all these ground connections must have the same radio-frequency potential, and therefore a metal chassis makes the most satisfactory and practicable ground for the receiver. Often the use of a separate ground wire is immaterial, as will be explained. The metal chassis, operating at ground potential, now is standard radio construction practice.

The antenna circuit, comprising the horizontal top or signal pick-up unit, and the lead-in that connects the top to the receiver, is the *high* potential side of the radio frequency input system, while the ground represents the *low* or zero potential side. The antenna top, lead-in, receiver coils, and the grounded chassis or ground wire make up what is called the antenna system. The antenna circuit, or high-potential side, must not come in contact with, or even have close proximity to, any grounded object or the receiver chassis. To do so, especially at the very high frequencies, means that considerable signal energy will be lost through inductive and capacity effects. It is possible to short circuit the high-frequency antenna signals *through the air* when some part of the antenna circuit comes close to the ground circuit. It is important to bear this in mind when erecting any type of antenna system or making repairs to a radio receiver.

## Ground Resistance

The prime importance of a ground, therefore, is to provide a low-resistance path so that free electrons from the earth can flow into the receiver chassis and neutralize any accumulated excess of positive elec-

tricity. That is why good grounds are stressed, for, in most cases, bad or high-resistance grounds are worse than none. Without a ground, in certain cases, as we shall see, free electrons cannot easily reach the receiver and maintain a condition of true zero potential at the negative side of the circuits. The set, therefore, cannot work as it does when a good ground provision is made. There are other reasons, too, for the use of a ground, but the above explains why a *good* ground is necessary if one is used at all.

When a doublet or "Hertz" type antenna is used a ground is not necessary to complete the circuit through the antenna coils or radio-frequency amplifying circuit of the receiver. The so-called doublet is merely two inverted "L" antennas, backed up against one another, but requiring two down leads which may be parallel, twisted or transposed. A radio signal is induced in the flat top (two halves) of the doublet and flows down and through the receiver coil, then reverses with the next alternation of high-frequency current and flows down and through the coil in the opposite direction. Thus an alternating current passes back and forth through the primary and induces a stronger current in the secondary of the coil. A ground is not needed to complete this positive to negative electric circuit. But local noises intercepted by the two leadins flow through both wires at the same time, meet at the bottom as it seems, and then cancel out. Thus the leadin provides a noise-reducing circuit in the antenna system.

#### A-C Set Grounds

But a ground wire in this same system might pick up noise. This electrical interference does not cancel out, and the radio set can become noisy because of its ground lead. This situation applies always to any type of receiver or antenna

system when a ground wire is utilized. The construction of a good ground is imperative. When a grounded antenna is used, a poor ground will result in weak signals, for the ground wire completes a circuit through which the antenna current oscillates, and any resistance that interferes with the passage of the current will tend to reduce its energy.

Much of the above applies to battery operated sets used in rural regions. Modern A-C operated receivers have means for grounding the chassis by providing a natural path for the free electrons. This path is by way of the grounding condensers that help to eliminate hum in the power circuit, and by capacity and inductive effects between the chassis and the windings of the transformer and power line. An electric set, which has a metal chassis, is, in effect, already grounded. It works in a satisfactory manner, but there are times a good ground wire will improve its performance, particularly on the longer waves.

#### Water-Pipe Grounds

When long waves are being received, those having a low frequency, the need for a good ground is greater. The very short waves, because of their disagreeable power to leak through insulation, do not require a separate ground wire, even when a single-wire "Marconi" type antenna is used. Sufficient ground contact is maintained through the wiring and transformers of the set. However, there are times when a ground seems helpful. Of course, no set rules can be established, and experimentation is one of those things we must fall back upon in order to find out which works best. When a doublet antenna is used a ground is not considered necessary, although all receivers provide a contact for it. On very short waves there are times when a solid

ground weakens signals, but, at the same instant, on the longer waves it proves beneficial. Therefore, a good ground is advocated at all times, but it may be fitted with a small switch close to the receiver, so that it can be cut on or off if necessary during short-wave reception.

We must consider resistance (which makes a poor ground) and noise pick up. Resistance occurs when the wire is carelessly attached to some metallic object, and to a greater extent when that object makes insufficient contact with the earth. This connection to the ground must be buried deep enough so as to be almost an integral part of the moist earth itself. This means, for example, that a cold-water pipe—one that is part of an urban system—is just about the best ground that can be easily obtained. But, to be as perfect as possible, the connection to this pipe should not be at some radiator or water faucet when a number of screwed joints exist between the radio and outdoors; it should be made at a point where the pipe emerges from the ground. The pipe must be cleaned to a bright finish, and the wire—not smaller than No. 12 copper—is wrapped around several times and clamped tightly or soldered. A good ground clamp, securely screwed down, may be used. All that can be done should be provided so as to make a low-resistance ground between the earth and the radio. The wire, in one length, is run directly to the set, but is kept as short as possible.

### Grounds and Noise

It is not always possible to use water pipes, especially in rural regions. A strip of copper roofing material, a couple of inches wide by many feet long (at least 12) can be buried in a trench, deep in moist

subsoil. Cover with clay soil, and tamp over the strip. Then water the trench and fill with soil. Three or four new iron pipes ( $\frac{3}{4}$ -inch size) 6 to 8 feet long, flattened at one end to a screw-driver-like point, can be driven into the ground with a sledge. Pick out a permanently moist spot for this, and place the pipes about 5 feet apart in a row. A No. 10 copper wire is soldered or bolted to the tops of the pipes and then run to the radio set. If the soil is sandy and dry a metal plate and wire may be dropped to the bottom of some nearby well. Otherwise, many yards of wire must be buried in trenches dug down to subsoil.

Noise pick-up by the ground wire must be avoided. The ground wire, as a rule, is overlooked when noise causes interference. The ground lead is much like the antenna lead, for it passes through the house and its electric fields. To see how well a ground wire picks up electrical energy one needs only disconnect the antenna wire from his radio and move the ground wire into the antenna terminal. Signals and noise will be heard in proportion to the length of the ground wire. Water and heating pipes also pick up this interference, for they, too, can be used as an aerial. If an external ground is used, such as the driven pipes mentioned above, they should be placed some distance from underground pipe lines and electric conduits. It is possible for water pipes to cause noise or static because of the electrolysis that takes place in and around great masses of buried metal and water. However, a good cold-water-pipe ground, as suggested, even when high in a hotel or apartment, often is the best we can do. If it picks up noise there may be little that can be done. So, at the best, we can only use judgment after a study of local conditions and let expediency be our guide.

# In the WORLD of DX

• • • By CARLETON LORD

**M**ANY times in the past, DXers have received their share of abuse as the result of poor results to stations. Either through ignorance or deliberate neglect, they have eased over program details with a bare minimum of material, frequently neglected completely the necessary item of reception data, and all too often slipped up on the matter of return postage. Although radio magazines and club bulletins repeatedly stress the necessity of making every report as complete as possible, it continues difficult to impress some listeners of the importance of this procedure. And as a result, stations continue to heap coals of fire on collective DX heads.

On the other hand, listeners occasionally find it necessary to toss a brickbat at stations which are lax in attention to reports. It has been claimed with just cause that not a few broadcasters dish up cards or letters of verification without even the formality of comparing a report with the station log. Perhaps in an effort to cater to their listeners, the stations decided that a verie was close to the heart of every DXer, and consequently bent over backward in an attempt to please.

While it is undoubtedly true that most DXers prize verifications highly, they are not interested in "cheap veries." Just as they would shun a confirmation which could be bought or otherwise obtained by faking, they have small regard for veries which are not earned the hard way.

A few years ago, it was whispered in DX circles that KGBU would issue a verification for practically any letter. As a result, even authentic veries from that station were of little value.

More recently, the bottom dropped out of the WJBK verie market, when a request that the station stand by during the first Mystery DX Contest was answered with a courteous letter of confirmation.

Latest station to fall from grace is WFMD, Frederick, Md., which broadcast for the NNRC on December 12th. On that date, a director of the NNRC addressed the following letter to the station:

"Although I was prevented by work from listening to the special program broadcast by you this morning for the Newark News Radio Club, I do want to take this opportunity to express my appreciation for the courtesy which you extended to our club.

"From the members of our Baltimore Chapter, I have had first-hand information regarding their preparations for the broadcast, and I would have given a great deal to have had the chance to listen in. Unfortunately, that was not my privilege.

"However, I do feel that too much credit cannot be given you for the splendid co-operation which you have shown us, and I want to extend my sincere thanks for your courtesies.

"Trusting that I may be able to listen in on your next dedicatory program, and with best wishes for your continued success . . ."

At the time the WFMD special was arranged, it was understood that the NNRC Baltimore Chapter would handle the verifications. Therefore, when the above letter was answered on February 17th with a handsome letter of confirmation, perhaps the blame for the careless handling should not be

placed on the shoulders of WFMD's general manager, A. V. Tidmore, who signed the letter.

### Report All Specials

Despite the rather unfortunate response, the above-mentioned letter gives an excellent example of the obligation of every DXer. It's all very well to write an enthusiastic letter when a verification is desired, but the true test of a listener's sense of responsibility comes when the station's confirmation is filed away. Then is when the DXer classifies himself as the co-operative listener, who is anxious to boost his hobby, or the mere hanger-on who lets the other fellow do the work.

Listeners should always remember that they are on the receiving end of a great, big favor every time a station schedules a dedicatory broadcast. It has been reliably estimated that the cost of an hour's special program from a small station averages about fifty dollars, exclusive of talent. Multiply that by the hundred or more broadcasts specially scheduled for the average large radio club during one winter season, and it is apparent that the stations are footing a pretty heavy bill for the doubtful privilege of being heard by a few hundred DXers.

As it would be quite impossible for any club to pay the costs of the programs dedicated to it each year, much less reimburse broadcasters in accordance with established commercial rates, it is evident that the station has every right to expect some sort of a return for its outlay of cold cash. So far, broadcasters have merely asked that club members send in reports for the various programs. But unless listeners realize their responsibilities, the time must eventually come when stations will adopt a policy of "we'll play if you pay." And then it will be good night DX!

Of course, this particular problem



*Nancy Kelly is still in her 'teens, but a trouper of long standing, who broadcasts over the CBS on the Hammerstein Music Hall, "Big Sister" and "Aunt Jenny" programs. She is also appearing currently on Broadway in "Susan and God."*

has been stressed time and again in the past. It is an old story to the veteran DXer as well as to the neophyte, but its importance can never be over-emphasized.

It matters little whether or not a listener actually needs a verie from a station. He still has a definite obligation to send in a report whenever a broadcast is dedicated to his club. Even if he doesn't happen to be listening at the time of the program, he can still write a card or letter of appreciation and thanks. The small effort involved will insure future co-operation by stations—and thus continued DX for his own pleasure.

### Readers Report

When it comes to sticking out a neck, old Count de Veries seems to be qualified for a pre-Thanksgiving job showing the proper technique

to a farm of turkeys. Last issue he went into ecstasies about how swell broadcast band reception had been, and now reports from readers seem to indicate that something beside his arches are falling.

"Reception on the broadcast band has been terrible for the past several months," bemoans George Nahas, 147 Seeley St., Brooklyn, N. Y. "It's now come to the stage where it takes a lot of coaxing to hear a high-powered station on the Pacific Coast. Even KFI and KNX, old standbys, now act like a couple of 100-watters. In fact, the whole broadcast band is beginning to act like the 75-meter amateur band—just a lot of noise and more noise.

"During the past month, there have been but two fairly decent catches. TGW has been logged for four consecutive Sunday evenings, and KPMC registered R6-7 one morning while broadcasting a tennis match between Fred Perry and Ellsworth Vines."

"During December and January," writes H. H. Searles, 159 Spruce Ave., Rochester, N. Y., "I swelled my log from 642 to 719 and my verifications from 538 to 626. The best stations heard during this period were KWYO, KYOS, WPRO, KLS, KRLC, KICA, and KIEM, all verified now."

"I bought my first copy of RADEX on November 7th," admits R. E. James, 336 Kingston Crescent, St. Vital, Man. "From then until today, a period of ten weeks, I have heard 249 BCB stations. Of this total, 17 are from five provinces of Canada, 212 are from 39 states of the U. S., 12 are from Mexico, seven from Cuba, and one from Puerto Rico. The better catches in my log are WKAQ, CMBS, WIOD and XEAA."

"I have been DXing for almost two years," advises Vincent C. Stason, 5347 Priscilla St., Philadelphia, Pa., "and have heard 412 stations,

of which 63 are verified. Some of the better catches are LR1, WNEL, WPRP, WKAQ, KCRJ, KOL, CMBX, CMCD, CMBS, XEMO, XEP and CMGH. My receiver is a Hallcrafters Sky Buddy. Incidentally, can anyone tell me what station is on 1100 keys and announces as Rio Rita?"

One of the few distant stations which continues to offer regular and reliable reception to American DXers is LR1, 1070 keys, Buenos Aires, Argentina. This station first hit the headlines a couple of years ago when, together with several Argentine and European stations, it broadcast special test programs for the Bureau of Standards. LR1 has continued these tests and today stands as the most powerful distant signal ever to reach these shores. Its present schedule is variously reported as 2 to 3 a. m., EST, on Tuesday, Thursday and Saturday; same time seven days a week.

"I received a sample bulletin of the URDXC," postcards Walter V. Scholz, 33 N. Maple Ave., Webster Groves, Mo., "and in it I noticed that LR1 is on seven days a week from 2 to 3 a. m., EST. I tried for it and had no difficulty picking it up, sending in a full half hour report. The static was bad, but most of the time the carrier over-rode the noise beautifully. This was my first S. A. on the broadcast band."

### Daytime Reception

Radio frequently plays funny pranks for the mystification of its devotees, but perhaps the oddest of all are the vagaries of daytime reception. There are times when none but local stations can be heard above the noise level, other occasions when signals cover incredible distances at mid-day.

Apparently there are no definite records for daytime reception, perhaps because few DXers look for distance when the sun is shining. But an example of what is possible

under unusual conditions is related by Cortlandt Parent, Jr., Crompond Road, Peekskill, N. Y.

"Normally my daytime reception is limited to New York City, a few Philadelphia stations, WBZ and WGY," he writes. "However, on January 18th I noticed that there were more stations than usual on the broadcast band. At 11 a. m., EST, I was surprised to hear an announcement from CKLW, Windsor, Ont., so I decided to see what the rest of the band would bring.

"In addition to CKLW, stations showing local strength were WJR, Detroit; WOWO, Fort Wayne, Ind.; and WHO, way out in Des Moines, Iowa. Good, strong signals were heard from WHKC at Columbus, Ohio; WGN, WBBM and WMBI, Chicago; and WTAM, Cleveland. A fair signal could be heard from KMOX, St. Louis. Weak signals showed from WSM, Nashville; WSB, Atlanta; and WBT, Charlotte, N. C.

"The receiver was a 1937 8-tube Silvertone. The sun was shining brightly, there was no wind, the ground was covered with snow, and the temperature was about zero. After one o'clock in the afternoon, the signals became very weak and many faded out. That evening I couldn't get any of them. Since that day, I have heard some of these stations in the daytime, but they were always very weak."

Perhaps other RADEXers have had similar experiences with daytime reception and may be able to tell us just how far it is possible to hear stations around mid-day.

#### Special Programs

Due to the time required in publishing each issue of RADEX, it is necessary that announcements of special broadcasts reach us well in advance of the date of the program. Frequently word of test programs reaches us too late for inclusion in the proper issue, and as a result

readers miss a chance to log many worth-while catches.

RADEXers who get their copies early will be interested to learn of a forthcoming special from KGKB, 1500 keys, Tyler, Texas. B. A. Smith of that station advises that there will be a big DX program from 1 to 4 a.m. (presumably CST) on March 22nd. Two days earlier, March 20th, finds a UDXC broadcast from VK4IP, 1440 keys, Ipswich, Australia, from 7 to 7:30 a.m., EST.

According to C. Roman, 1907 N. Kedzie Blvd., Chicago, there is a special frequency check program from KTEM, 1370 keys, Temple, Texas, from 3 to 3:30 a.m., EST, on the first Saturday of each month.

#### Likes Monitored Verie

"I happen to be one of those DXers who was interested in ZBW at Hong Kong," supplies Alfred H. Bacon, 928 13th St., New Westminster, B. C. "I kept trying for them on and off for some weeks. At last patience rewarded me and I was able to take down a report on an hour and a half of its transmission. Having read that the station no longer issued veries, I was in a quandary. Then I learned that Stanley B. LaRue was good enough to fill the gap left open, and I forwarded my report to him. The letter of verification which he sent to me is most worth while, certainly far better than nothing at all. To me, a verification signed by an official of a recognized DX club is ample evidence of reception, and so I believe that it is an acceptable substitute for a letter direct from the station, when that cannot be had."

"For myself," states Warren E. Winkley, Hughson, Calif., "I feel that Carroll Weyrich, Stanley LaRue and E. J. Shields were trying to do DXers a favor. But instead of being thanked for their sincere efforts, they've been picked on and ridiculed. The trouble with most of

us is that we are always ready to criticize and never ready to praise. Why not turn this around? It was through Carroll Weyrich that I became interested in DXing, and since that time I've kept tab on him. Next to Earl Roberts, I rate him as the best DXer who ever turned a dial."

### **Wants Official Veries**

"Although the verification question may be closed," contributes J. W. De-Rosa, 1721 Frederick St., E. St. Louis, Ill., "I should like to express my views. If a station does not wish to verify, that is their business. However, by constructive letters from sound-minded DXers, many of these stations can be educated on the why's and wherefore's of verifications. Personally, it took three years for me to secure a WMFO verification. But that verie will always bring back a memory—one which could never be had from a monitored card. I have countless veries from stations which apparently won't verify for every listener. Undoubtedly there is a method to be used when reporting to a 'temperamental' station."

### **Mysterious Mexicans**

"Have been hearing a couple of Mexican stations which I haven't been able to identify," reports Jack Welsh, Kingston, Ill. "One was on 980 kcys, and signed off at 12:30 a.m., CST, on January 9th. Was this XEAC or XEFE? The second was heard on 730 kcys, at 2:30 a.m., CST, on January 17th. I got the first three letters of the call—XER—and heard the announcer state that they were located 15 miles South of the border. Could this be XERB, Rosarito Beach, B. Cfa.?"

The Mexican on 980 is referred to our readers for identification, while the one on 730 is confirmed as XERB by Arthur Child, 3700 Coldwater Canyon, North Hollywood, Calif., who adds that the station uses 100 kilowatts power.

"Station XEL, Mexico City, has changed from 780 to 1100 kcys," asserts Samuel A. Meyer, Jr., 83 Canterbury Rd., Rochester, N. Y. "Other Mexican changes include XEBZ from 1160 to 810 and XEFE from 980 to an unknown frequency. Changes in Cuba find CMBC moving from 630 to 950, CMCD from 950 to 630, and CMCB from 640 to 1230. Several new Mexicans have recently come on the air: XEFO, 1010 kcys, 50 watts, Cananea, Sonora; XEDH, 1370 kcys, 100 watts, Villa Acuna, Coah.; XEN, 775 kcys, 1000 watts, Mexico City; and XEBU, 1250 kcys, power unknown, Chihuahua, Chih. There is also a new station at Mexico City, XEXX, which has been on the air for some time, but I have not yet learned its frequency or power. Down in Guantanamo, Cuba, CMKS is a new station on 960 kcys. It is on a Cuban network with CMQ and CMJK."

"Recently I heard CMCB on 1230 kcys," notes Chet Komovowski, 368 N. Main St., Norwich, Conn., "but their verification letter showed them to be on 1060." This discrepancy is explained by the above report. Evidently the engineers could change frequency faster than the printers could change the letterhead.

"The chief trouble with DXing lately," comments Howard M. Phillips, 3907 20th St. N. E., Washington, D. C., "is the drifting of a few stations all over the broadcast band. CMK, normally on 730, roams nightly from 713 to 735. Others are almost as bad. Then, too, the Cubans are showing unusual strength, and on some nights their interference makes it impossible to hear but a few of the large American transmitters."

The recent move of TGW to 1510 kcys, is reported by many RADEXers. First to hear the station on the new frequency was George Nahas, 147 Seeley St., Brooklyn, N. Y.



## Spanish Speakers

Judging by early comments, the list of Spanish-speaking stations compiled by Carroll Weyrich and Earl Roberts is going to help a lot of DXers identify the many broadcasters heard during the evening hours. At the time the list was first presented last month, it was suggested that RADEXers make as many additions as possible. Samuel A. Meyer has suggested several other stations, so here is the augmented list.

570	CMCY	5000	Havana, Cuba
600	CMQ	2500	Havana, Cuba
625	TIPG	2000	San Jose, Costa Rica
630	CMCD	250	Havana, Cuba
650	TIX		San Jose, Costa Rica
670	XELO	50000	Tijuana, B. Cfa.
720	CMK	3000	Havana, Cuba
755	CMBL	2500	Havana, Cuba
760	CMHX	200	Cienfuegos, Cuba
775	XEN	1000	Mexico City, D. F.
810	CMCF	600	Havana, Cuba
830	LR5		Buenos Aires, Arg.
850	CMCM		Havana, Cuba
854	OAX4A		Lima, Peru
880	CMW	1400	Havana, Cuba
882	YV5RQ		Caracas, Venezuela
935	XEFO	5000	Mexico City, D. F.
950	LR3		Buenos Aires, Arg.
955	CMBC	10000	Havana, Cuba
960	YV5RA		Caracas, Venezuela
970	CMBY	150	Havana, Cuba
1000	CMBZ	500	Havana, Cuba
1005	YV5RG		Caracas, Venezuela
1030	CMCK		Havana, Cuba
1070	CMBX	500	Havana, Cuba
1105	HJ3ABD		Bogota, Colombia
1110	CMCJ	500	Havana, Cuba
1120	YV1RF		Maracaibo, Venez.
1125	XEJP	100	Mexico City, D. F.
1190	LS2		Buenos Aires, Arg.
1200	CMCO	250	Havana, Cuba
1220	HJ3ABE		Bogota, Colombia
1230	CMCB	150	Havana, Cuba
1260	CMC	150	Havana, Cuba
1350	CMCA	450	Havana, Cuba
1410	CMCQ	5000	Havana, Cuba
1440	CMOA	150	Havana, Cuba
1510	TGW	10000	Guatamala City

If RADEXers will assist us in keeping this accurate and up to date, the list will be run every month.

### Local Color

"I was somewhat surprised when I saw you list XERO as being at Chapultepec," remarks Guy R. Bigbee, Fort Benning, Ga. "Chapultepec is the summer home of the president of Mexico, and is located at Mexico City. There is a park surrounding the castle—as that is what Chapultepec really is—and was started

during the time of the Aztecs. It was used by Emperor Maxmillian and Empress Carlotta, and by each of the presidents of Mexico until Cardenas came to that office. He claims that the castle is too much like being an aristocrat, so lives in another house. The castle itself was opened by him to tourists.

Surrounding the castle is the park, or what is known as Chapultepec Park. Back of the castle grounds proper is the American section of Mexico City, known as Chapultepec Heights, and believe me there are some up-to-date houses in that section. Well worth a visit if you ever go to Mexico!

"I believe that the mistake in location of XERO was due to the fact that its card shows the picture of Chapultepec—hence the belief that the station actually was there."

### European Notes

"It has been reported in the press," contributes D. H. Dussek, Marland Hall, Alton, Hants, Gt. Britain, "that Italy has decided to close the station at Bologna, and to strengthen the stations at Rome, Bari and Trieste. Bologna operates on 986 kcys with a power of 50 kilowatts.

"The new Hilversum station (Lopikerkapel), 722 kcys, 17 kw, now operates on a full schedule from 2:40 a.m. to 6:40 p.m., EST, relaying the programs of Hilversum No. 1.

"In the first week of January, the press reported that the British Government had persuaded the French authorities to ban advertising in English from French stations. The immediate result was that Radio Normandie asked its listeners to write in and state whether they wished the programs to continue. However, it now appears to have been a false alarm. A law is to be introduced which will limit the power and frequencies of the sta-

*(Please turn to page 36)*

# The Stamp Corner

• • • By David Brockton Browne

POSTAGE stamps may be collected in so many different ways that each collector has endless opportunities to form the type of collection which pleases him the most. After all, stamp collecting isn't a mere matter of dollars and cents. The best collection is the one that has brought its owner the most pleasure in forming. It doesn't matter whether that collection is worth \$5.00 or \$5,000, the main point to consider is—does that collection bring enjoyment, satisfaction, and relaxation from everyday cares and worries to its owner?

Have you ever thought of forming a specialized stamp collection around the theme "Radio and Electricity"? An interesting—though not large—collection may be built around this subject at comparatively little expense.

Radio and Electricity in themselves are not widely portrayed, but many famous men identified with their development have been honored with a number of postal issues in recent years. Suppose we glance at a few of these stamps for a moment or two.

A radio broadcasting station with its two tall steel masts displayed prominently, is shown on the 30c red and black *Guatemala* stamp of 1919. The following year the same stamp was surcharged "1920—2 centavos." In 1922 when the supply of 25 centavos stamps was depleted, this stamp was again surcharged "1922—25 centavos." Thus, three stamps from a single country might well be added to our collection.

The *United States* commemorated the 50th anniversary of the invention of Thomas A. Edison's first electric lamp with a 2c carmine rose

stamp in 1929. This stamp comes in three varieties—all with the same design—which should be added to the proposed collection. They are flat plate, rotary press, and rotary press coil printings.

*Italy* has philatelically portrayed three of her prominent inventors, electrical geniuses who have enriched the world with their discoveries—Volta, Galvani, and Marconi.

Allesandro Volta (1745-1827) was the first producer of electric current. Whenever we speak of volts (as a unit of electromotive force) or voltaic cells, we have to thank Volta for whom *Italy* issued four stamps in 1927; 20c dark carmine, 50c greenish black, 60c chocolate, and 1.25 lire ultramarine.

Commemorating the International Radio Congress of 1934, two stamps—30c brown buff and 75c carmine rose—were issued by *Italy* bearing the portrait and autograph of Luigi Galvani (1737-1798) whose name we remember through the Galvanic theory, the galvanometer, and the galvanizing process widely used in modern industry.

The latest *Italian* commemoratives honor Guglielmo Marconi (1874-1937) whose name we all remember in connection with modern wireless and radio. The values are 20c red, 50c purple, and 1.25 lire blue.

*France* marked the 100th anniversary of the death of Andre Ampere in 1936 with a 75c brown stamp. Ampere's discoveries in the field of electro-dynamics gave the world the unit of electrical current that bears his name.

We will continue our visits into the historical background of radio, wireless, and electricity as portrayed on postage stamps in future "Stamp Corners." The stamps chronicled here are but a part of the collection that may be built around these subjects.

### Our Readers Report

J. F. Satterthwaite, 544 Colonial Court, Toledo, Ohio, would like to know what issue of Short-Wave & Television magazine carried an entire page depicting stamps that bear on the historical side of radio and science. Your Stamp Editor is also interested in the same information—who can help supply this knowledge?

Carl Forestieri, 2224 Adams Place, Bronx, New York City, desires to exchange mint and used U. S. with other stamp collectors.

Ben Follrath, 1419 Pearl St., Alameda, Calif. would like to exchange unused stamps—both U. S. and foreign with DXers living outside of the United States. Incidentally Mr. Follrath writes "I believe that the stamp column in RADEX will make a hit with the old time collectors and cause them to bring out all their old stamp albums, thus starting all over again in their hobby." We certainly hope that this prediction comes true.

Here is a foreign collector who desires to exchange stamps with readers of RADEX; Herr H. Holst, Ulzener Strasse 22, Luneburg, Germany. He wishes to receive cancelled U. S., Canadian, Central or South American stamps in exchange for equal value of European stamps.

### Stamp Digest

A milestone in the advancement of stamp collecting in the United States, the Stamp Illustration Bill, mentioned briefly in last month's "Stamp Corner" was signed by President Roosevelt, January 27th and became effective as a law, February 17th last.

The bill was enacted to permit the printing of illustrations of United States stamps for philatelic purposes in articles, books, newspapers, stamp albums, and advertising circulars, providing illustrations are less than  $\frac{3}{4}$  size or more

than  $1\frac{1}{2}$  size in linear dimensions of each part of the stamp. No government permits are necessary for publishers wishing to print stamp illustrations under the terms outlined.

For collectors wishing to know the names of Stamp publications of the United States and throughout the world, together with the frequency of issue and subscription price per year, Herbert L. Shatz, 1033 Chestnut St., Philadelphia, Penn., has issued a reference list that he will be glad to send free of charge to any reader of RADEX without obligation if they will write him a letter mentioning this magazine. Mr. Shatz has compiled one of the most complete listings of U. S. and foreign stamp publications in existence and collectors will certainly appreciate the great amount of effort and research that have made these lists possible.



*The object of Carl Hoff's affection is, if you haven't guessed it, Tizzie Lish, the wonder-girl of the Al Pearce program, on which Maestro Hoff leads the orchestra.*

*Australia* has issued a new 4d. green stamp with a picture of the native "teddy bear"—the Koala. Though somewhat small in size, the stamp is attractive.

*Sweden* recently commemorated the 250th anniversary of the birth of Emanuel Swedenborg, the great Swedish scientist, and Theologian, with two postage stamps—10 ore and 100 ore. Swedenborgs picture appears on the stamps.

If there are any questions concerning stamps that readers of RADEX would like answered—or if there is any information you would like to know—write the Stamp Editor in care of RADEX and he will do his best to comply with your desires. Cheerio!

## Station News

Examiners of the Federal Communications Commission have recommended that applications be granted for new stations, as described following:

*The Evening News Press, Inc., of Port Angeles, Wash., a new station to work on 1500 kcs, 100 watts nights, 250 watts to local sunset, unlimited time.*

Platt and Platt, Inc., Poughkeepsie, N. Y., to work on 1000 kcs, with 1 kilowatt, daytime only.

*Kanawha Valley Broadcasting Co., Charleston, W. Va., a new station to transmit on 1500 kcs, 100 watts unlimited time.*

A new international broadcast station to use frequencies of 6020, 9510, 11710, 15170 and 25675 kcs, with 50 kilowatts power, in Salt Lake City, Utah. The applicant is the Church of Jesus Christ of Latter-Day Saints.

*Grant of a construction permit to KCMO, Kansas City, Mo. was recommended for change of frequency from 1370 to 1450 kcs, and an increase of power to 1000 watts full time.*

The University of Florida, station WRUF, was granted temporary authority to rebroadcast the Navy Time Signals from Arlington, Va. This temporary authority will expire on August 1, 1938.

## The SWL Trading Post

Notices for the Trading Post Column have been accepted from readers on the understanding that all exchanges will be acknowledged, but judging from the large number of complaints received, many who have used this column have not fulfilled their obligations. Therefore, as much as we dislike making rules, we are forced to make one here.

In future, names and addresses will be printed in this column only on the written promise that *every* letter will be answered. If an exchange of SWL cards is desired, the request must be *on the writer's own SWL card*.

The Exchangers listed below have agreed to QSL 100%.

W. P. Mathers, 15325 Log Cabin, Detroit, Mich. (SWL cards).

Norman Glover, 305 S. 8th St., Ponca City, Okla. (SWL cards).

Cyrus Will, 651 Brier St., Kenilworth, Ill. (SWL cards).

Ben Follrath, 1419 Pearl St., Alameda, Calif. (SWL cards).

E. Leisering, Jr., 782 E. 32nd St., Brooklyn, N. Y. (Correspondence).

Leonard Woodall, Route 2, Plano, Tex. (SWL cards and correspondence).

David Hill, 1516 Varnum St., N. W., Washington, D. C. (Correspondence).

Alan Hutchinson, 15 Embo St., Dunedin, SW1, New Zealand. (Correspondence).

Walter V. Scholz, 2nd, 33 N. Maple Ave., Webster Groves, Mo. (Correspondence).

Stanley LaRue, 309 So. Bedford Drive, Beverly Hills, Calif. (SWL cards).

# Questions ASKED By Our READERS

• • • By the TECHNICAL EDITOR

**M**Y RECEIVER is a model 8K RCA Victor. I have no local stations to trouble me, but plenty of others crowd in close to either side when a good station is being received. Then, too, there are several stations right on the same channel. My antenna runs NE and SW. What length doublet do you advise if I should get one? I wish to DX on the broadcast band, but with this crowding of distant stations it is hard to separate them. Some local amateurs break in on the broadcast band. What can I do to overcome these obstacles?

This radio should work nicely on an ordinary antenna, one about 40 feet in length with as short a lead-in as possible. Removal of the ground wire might help at times, but as a rule the ground should be used. Any good doublet, or new RCA antenna, which is not a doublet, but more of the Zepp type, will work nicely with this set. The purpose of the doublet is to eliminate much of the static noise that may be heard, while, at the same time, providing a more scientific length of wire that will respond particularly to certain of the short-wave bands. Whether you need a doublet or not might depend upon your location and the degree of man-made static present.

The crowding of stations on the broadcast band is nothing unusual; instead, it seems to be the rule with most sets. If a set is highly selective, with crystal control, then it is possible to tune so sharply that most of the crowding is prevented. When this is accomplished, however, often the tone is hurt, since high-fidelity of reproduction requires a wider wave channel than

can be assigned the broadcast stations of America. A careful tuning, readjusting and aligning of this set might improve its selectivity so that DXing on the broadcast band will be better.

Sometimes a good wave trap will help. If the trap is selective and easily adjustable, it can be set each time to cut out a closely interfering station, especially if it is some local or nearby amateur. Unfortunately, a good wave trap cannot be made to cover a wide or all-wave band. Separate traps must be used for different portions of the wave band. Among suitable traps on the market is one made by the Miller Company. Adjustment of the trap is simple. Merely tune in on the radio a station or frequency you desire to cut out. Then adjust the knobs on the trap for a minimum signal so that the undesired station is almost or entirely cut out. After doing this and retuning the set to the desired station at almost the same kilocycle setting, the interfering stations will be absent. By repeating this setting at all the stations desired when other station interference is heard, DXing on the broadcast band will be a happier event. Special wave traps for the amateur and short-wave bands can be procured, and one of these will prevent your local amateur from being a nuisance. Wave traps can be used with either a single wire or doublet antenna.

## Ground Wire

*My ground consists of 4 galvanized iron pipes six feet in length and all driven into the earth. They are connected together with a wire that runs fifty feet upstairs to my*

*RCA C7-6 receiver. I cannot make this ground any shorter. Now, if I used a thicker wire will it help to prevent noise and give me better reception? I do not have an all-wave antenna. It is a single wire, stranded, about 75 feet without the leadin, which is lamp cord wire.*

The four pipes driven into the earth for almost a distance of six feet should provide an excellent ground provided the character of the soil is such that it is earthy with clay and permanently moist. Pure sand, or very dry earth, makes a poor ground. Some spot, close to the house and in a low place where water drips from the eaves, is best. Or water may be poured down the pipes at frequent intervals. The wire, about No. 10 bare copper, should be soldered either to the tops of the pipes or securely attached with bolts that pass through the diameter of the pipes at the tops. The wire should continue directly up the side of the house and into the room where the radio is located. Keep the wire as far as possible from other electric wires, telephones and bells.

Your antenna of 75 feet might be too long. About 40 feet is sufficient, and this size is used with a very short leadin. The height of the antenna is of greater importance. The leadin must be of the same diameter or the same kind of wire, but as short as practicable. The ground wire of No. 10 size, is very little more than 1/10th inch in diameter, and a suitable antenna wire, No. 14, is approximately 6/100ths inch in diameter.

If noise is bothering you too much, and it comes from a man-made or electrical source other than natural sky static, it will be well to procure a good noise-eliminating antenna or standard make of doublet. These antennas, while not rejecting the static that is picked up by the

antenna top, will not intercept the local static around the house to as great an extent as the single-wire leadin of the plain aerial system.

### Adjusting Philco 16

*Can you supply me with data for aligning my Philco 16 receiver? It is hard to have such work done here in Central America. Please tell me the sequence to be followed in doing this work.*

The intermediate frequency of this set is 460 kcs.. The first three bands should be aligned, but the fourth should not be touched. This is the ultra-short wave band and the coils and leads should not be moved or touched in any way. However, since a test oscillator is needed to do any kind of a fair job, we recommend that a service man or factory adjustment be obtained.

The broadcast band can be aligned at 600 and 1,400 kcs. The first short-wave band on about 4,800 kcs., and at 15,000 kcs., for the third band. The fourth band, of course is not touched. Connect the oscillator output to first detector grid and the chassis, and place the reading output meter across the voice coil of the speaker. Adjust the i-f trimmers until maximum output is read on meter. The test oscillator is set to operate on 460 kcs. Then connect this oscillator across the antenna and chassis. Align the r-f tuner, oscillator and first detector. Set the volume control at its maximum position. Adjust the broadcast band trimmers, using first 1,400 and then 600 kcs. Then follow, using 4,800 and 15,000 kcs., and adjust the first and second short-wave bands, respectively. However, a good service man can also adjust for image frequency and other things that might occur, and we seriously recommend that you return the set to the factory if a good local expert cannot be located.

### Multiple Antenna

*I would like to erect 5 or 6 antenna wires pointing in different directions, but all meeting in the center. Would it be best in regards to receiving ability to solder them all together and then attach a doublet leadin, or should I have different leadins for each?*

If you wish you can erect two doublets, one just above the other, but at right angles to each other. This calls for two separate leadins and a switching arrangement at the bottom. An idea that you can try is to erect four wires, all in the same horizontal plane, placed at right angles or 90 degrees to each other, each one 30 feet in length. This will look like a four-spoked wheel without the rim. The wire that runs from the center directly north is soldered (at the center) to the wire that runs directly west. The same connection applies to the south wire and the east wire. The two "V" connections are joined at the center with an ordinary antenna insulator. Insulators too, are used at the four ends. At the center insulator, the two contacts are considered as from single wires, the same as in any doublet antenna, and attach to a doublet down-lead that goes to the radio receiver. This form of double-doublet antenna eliminates some of the undesirable directional qualities of the standard doublet. However, in many cases the directional effects are beneficial, so the two separate doublets, with two leadins and a double-pole double-throw switch, may be used to advantage when receiving from certain directions on short waves.

There is an antenna system, arranged somewhat like the above double switching system, now on the market. It provides a choice of directional doublets thus making it possible to obtain maximum signal energy from either of the four compass points. Intermediate direc-

tions are brought in by switching off one leg of each doublet. A special transformer coupler with switch knob on the top is used.

### Trickle Charger

*Will you please answer in your columns what liquid and quantity of same is used to charge a Balkite trickle charger. This is an old charger and I may not be able to procure the standard ingredient.*

Many of these and similar chargers have been sold and still are in use. In practically all makes of trickle chargers electrolytic rectifiers employing aluminum and lead are used for the electrodes, and a solution of borax and pure water is satisfactory. The solution should be saturated, that is, all the borax is stirred in that can be dissolved. Sufficient electrolyte is placed in the container to cover the inserted electrode. In the Balkite rectifier this electrode usually will be found to be made of tantalum instead of ordinary aluminum. Some rectifiers use a very weak solution of water and few drops of sulphuric acid, but as a rule the cheap and simple borax solution will work well.

### Double-Spot Tuning

*Trouble has arisen in my Audiola 23S12 receiver since I had some new resistors and realigning work. The serviceman now says the set is perfect. But I get image frequencies that never bothered me before. He tells me that a wave trap might help. No one else experiences this difficulty nearby, so it must be in the receiver. I had another man check the set and he says it is perfectly balanced. A station 7 miles from here operates on 1320 and repeats again on approximately 980 kcs. This spoils reception from KDKA and causes a whistle on their carrier. Another station, on 1070, 45 miles distant, repeats on about 720 where I would otherwise get WGN if this interference from image frequency did not prevent*

*Then the same sort of thing occurs with other stations. Why is this and what can be done to eliminate the trouble?*

The duplication of certain stations, usually those of high power and located rather close by, on some other frequency so that they interfere with more distant stations, is known as image frequency or double-spot reception. In this case a station that is normally heard on some upper portion of the dial will be found to repeat again at a lower portion (in kilocycles) where a distant station normally comes in. This situation is brought about by a certain combination of different frequencies created within the set, particularly if the repeating station has a loud signal coming down a clear channel, or if it is nearby.

The repeat point where double-spot reception is heard will be found to be *twice* the value of the intermediate frequency of the set. That is, the repeating point on the dial will be *separated* from the normal tuning point by this number. In your particular set, the i-f is 177.5 kilocycles. Twice this figure is 355 kcs. Therefore, the repeating points always will be 355 kilocycles lower than the normal tuning point. So, when a station comes in at 1320 kcs. on the dial it will be found to repeat at a point that is 1320 minus 355, or approximately 965. This, you have found to be the repeat point, and this interferes with reception of another loud station on 980 kilocycles. In the second case a station normally comes in on 1070 kcs. But it also is heard on about 720 kcs. Take 1070 minus 355 and you get 715, which is your exact repeat point, and this interferes with reception of a station on 720 kcs. The repeating will appear loudest on some station close to the calculated repeat point because the set is tuned to maximum gain on the

desired signal.

The problem is to get rid of repeating or double-spot reception. This trouble will appear all over the dial as long as 355 kilocycles separation between the two points is possible without running off the dial. A very selective tuning circuit will prevent this trouble, and if it did not give this trouble previous to the overhauling of the set, it seems to us that adjustment is all that is necessary. Image frequency is prevented by keeping out strong signals that push into the r-f and i-f circuits although not tuned to them. A good r-f stage is needed, and even a pre-selector may become necessary. But we feel that there should be a good readjustment of the tuning circuit, especially the r-f stage and the i-f stages. The latter must be set to respond exactly to its proper i-f of 177.5 kilocycles.

The intermediate-frequency stages may be incorrectly adjusted, and an incorrect tracking of the r-f, oscillator and detector tuning condensers can be responsible. Sometimes poor shielding of the oscillator and first detector circuits and coils causes inductive troubles that lead to image frequency. A good wave trap is useful in reducing the strength of the interfering signals. The trap is tuned to minimum reception of the unwanted signal, and, therefore, it will not repeat at the spot where you wish to pick up another station. In bad cases it has been necessary to change the intermediate frequency of the receiver, and this trouble is more frequent on sets such as yours than on those employing a higher i-f. If this latter is about 460 kcs., then twice that number is 920, and this is too much spacing to permit the original signal and its image being heard over the dial in more than one or two rare cases.

Repeating may also occur at ir-



regular points on the dial; those places which have a direct harmonic relationship to the strong signal causing the repeating. Each harmonic, the second and third, will also have a difference with respect to the i-f of the set, and these, too, will make weak double-spot reception points which heterodyne with the desired signal and cause a whistle or distortion. You must prevent the excessive pickup of the repeating signals. Perhaps you have too much antenna length. It may be that the r-f tube and first detector or mixer tube are operating at a low level because the grid bias is improper. We suggest, too, since the set seems balanced, that the serviceman very carefully check this bias. It must not be excessive.

#### Noisy Receiver

*I have a Philco 116X, but every time I tune to the short waves and an automobile passes by I hear the noise. Then, too, when the volume is turned up I get a great deal of static. Why is this?*

As long as automobiles pass close to sensitive radio sets we shall continue to pick up the tiny radio waves that are emitted every time a spark is created in the ignition circuits. It has been found that a good noise-reducing antenna, such as a properly designed doublet or Zepp type, when the antenna top is as far away from the street as possible, will cut down the automobile noise to almost nil. The very short waves, then, will get the greatest amount. This cannot be prevented.

The noise that is heard when the volume is turned up full often is due to atmospheric static (which no antenna will prevent) or electric power lines noises, or the sounds within the set. High amplification makes audible the electronic agitation within the tubes, batteries and power units. This noise is natural and cannot be controlled unless the set is defective. The noise level

or background usually cuts down when a signal is tuned in. If the noise persists when the antenna and ground are disconnected and the volume increased to maximum, the sounds may be internal electrical noises. But when the set is attached to the antenna and ground and the noise begins again, it is due to static. In the case of power-line interference a good line filter will prove beneficial.

#### Local Interference

*Please tell me how I can get away from WSMK on all bands of my set. They have their antenna across the river from me and this interference prevents me from understanding many stations that I pick up.*

When a nearby station, with high power, interferes it can create double-spot reception by forcing its strong signals into the receiver where they cause separate signals on all the harmonics of the frequency used, as well as some other irregular frequencies. This type of query has been answered above in some detail because it is one that affects so many listeners. In your case we recommend the use of a good wave trap tuned to resonance on the signal that interferes. Such a trap has been described in one of the answers above, and may be procured direct from the makers or all radio distributors.

#### About Pre-Selectors

*I have a Lafayette J-36 receiver which has a long wave band. Can I remove this and substitute a short-wave band? Also, can a pre-selector be used, and where can they be obtained??*

RADEX has received many inquiries about pre-selectors or pre-amplifiers during the past month or two. These units, which are pre-amplifiers which take the antenna signals at radio-frequencies and step them up or amplify them before passing into the receiver. This ac-

tion provides a stronger r-f signal than ordinarily enters a radio set unless it has two or three stages of r-f amplification—something that is becoming more rare in modern radio receivers. This increase in signal strength together with its tuning, tends to provide a stronger signal without interference. Such an arrangement, therefore, will cut through more interference, but it may detract somewhat from the quality of signals and reduce their high fidelity.

We have mentioned once or twice the Miller pre-selector and pre-selector kit. This covers a range of from 12 to 200 meters or practically all of the short waves. It has two stages of r-f amplification and may be used with any all-wave receiver. It prevents all image frequency interference. Special coils may be used for the broadcast band. The Miller people guarantee that their pre-selector will bring in more DX reception. It has a self contained power unit and may be used with any type of antenna.

Pre-selectors may be procured from some of the mail order houses, and as we go to press information comes from Allied Radio that they sell pre-selectors completely assembled and also in kit form. The units come with 3 tubes and in different models for three band coverages. Allied Radio's address is 833 W. Jackson Blvd., Chicago, Ill., and the J. W. Miller Co., is at 5917 South Main St., Los Angeles, Calif. When our readers write either of these concerns they should mention RADEX.

As to your inquiry about removing one band and substituting another: This can be done in some of the older r-f sets where the changes are easily made without involving its actions too seriously. We do not recommend removing the long-wave band and substituting a short-wave band. You would have

to redesign the coils or get new ones, and they must be tuned with new condensers; then all your circuits and adjustments would be out. It simply is not worth the trouble. Get yourself a good short-wave converter. This unit will enable any owner of a standard broadcast or long wave set, to pick up short-wave stations. At the same time the broadcast portion of the receiver still is useful.

### Indoor Antenna

*I have a Zenith 12 tube receiver that operates with a Zenith doublet antenna erected outdoors. However, now that I am building a new home, I should like to arrange for an indoor aerial in the attic. Will you please tell me how to do this so that good reception on both broadcast and short waves will be assured?*

While inside antennas are not to be recommended when efficient long distance reception is desired, it is known that they are often very satisfactory. It is true that radio waves have little respect for the walls of our homes, for they pass right through, but, on the other hand, metal roofs, brick and plastered walls, all absorb some of the signal energy. If you have an unfinished attic with a wooden shingle roof we think that a good indoor antenna can be erected, but you will be subject to a considerable extent to electrical pickup from appliances in the house. An outdoor antenna, such as you have is best. The Zenith antenna has an overall spread of 60 feet, which, of course, would be too much for the average attic length. A single wire in the attic, stretched diagonally so as to obtain length, would be best. The single leadin can drop down through one corner of the attic to the radio set on one of the floors below. You might try erecting your doublet in the attic as follows. Place the con-

*(Please turn to page 36)*

# FACSIMILE in the Home

**R**ADIO stations in at least a dozen cities have been given permission to broadcast facsimile transmissions on their regular broadcasting frequencies, between the hours of midnight and 6 o'clock in the morning. A few of these stations are already on the air and others will commence transmissions as fast as equipment can be made available.

Two different systems of facsimile are being used, the RCA system as developed by Charles J. Young, and the Finch System, manufactured by William G. H. Finch.

## The RCA-Victor System

The RCA-Victor radio facsimile system, designed to flash pictures, news bulletins and other text matter through the air and into the home, was first publicly demonstrated last February in Washington, D. C. Already seven large stations have placed orders for the new apparatus, preparatory to launching their experimental services. These stations are KMJ Fresno, KFBK Sacramento, KHQ Spokane, WBEN Buffalo, WTMJ Milwaukee, KGW Portland and WOR Newark.

This system of picture transmission utilizes ordinary white or newsprint paper, and ordinary carbon paper, at the receiving end. The width of the paper roll on which the facsimile material is printed is 8½ inches, and the proposed length of each page is twelve inches in a continuous roll. Printing speed is at the rate of three feet per hour. A time-clock arrangement at the printer-receiver automatically turns the apparatus on and off in accordance with a predetermined transmission schedule.

The facsimile receiver-printer is encased in a simple wood cabinet measuring only 18 by 18 by 12 inches. All the mechanism and controls are inside so they may not be tampered with once they have been properly adjusted. The paper rolls out through a slit in the front of the cabinet. Two designs have been developed; one is fairly elaborate and automatically cuts the paper into 12 inch pages and deposits them neatly in a tray. The other is much simpler and does not cut the paper into strips.

The new, simplified system was developed after years of experimentation with many different types of printers, some of which were employed for commercial transmission of weather maps and information to ships at sea, and for the transmission of photographs and other material across the Atlantic.

Facsimile signals are picked up exactly as in sound broadcasting, but instead of passing through the loudspeaker they are made to actuate a printer mechanism. Continuously feeding rolls of paper are led past a metal cylinder drum, on which a single spiral of wire projects a fraction of an inch above the surface. The fluctuations in the intensity of the incoming signals press the paper and the carbon together against the spiral to make marks corresponding to the light and shade of the original picture at the transmitter.

These signals may be heard on the loudspeakers of ordinary radios, when broadcast frequencies are used, as high pitched tones of varying intensity.

## The Finch System

The Finch home recorders, like those of the RCA System, are en-

tirely automatic, turning on and off according to a pre-arranged schedule. These units are approximately the size of a typewriter, and are designed to operate from any alternating or direct current power supply, or even for battery operation for farm use.

This system makes use of white or carbon-backed paper, and all printed matter is immediately visible at the receiving end. The width of the pages on the receivers used at present is four inches, but recorders are being developed which will be capable of printing pages six inches wide. The speed of reception is five feet per hour.

Seven radio stations have ordered Finch apparatus. Among them is WOR, which is also reported to have RCA apparatus, but we doubt if this station will use both systems. Other Finch users will be WHO Des Moines, WGN Chicago, WSM Nashville, KSTP St. Paul, WHK Cleveland and WGH Newport News, Va.

Finch facsimile is also broadcast by experimental station W2XBK on 1614 kcs, licensed to the Finch Telecommunications Laboratories.

### Facsimile Broadcasters

The following stations have been licensed to broadcast facsimile, as of March 1, 1938.

KFBK, Sacramento, Calif., 1490  
 KMJ, Fresno, Calif., 580  
 KSD, St. Louis, Mo., 550  
 KSTP, St. Paul, Minn., 1460  
 WGH, Newport News, Va., 1310  
 WGN, Chicago, Ill., 720  
 WHK, Cleveland, Ohio, 1390  
 WHO, Des Moines, Iowa, 1000  
 WOR, Newark, N. J., 710  
 WSM, Nashville, Tenn., 650  
 W1XMX, Boston, Mass., 41000  
 W2XBK, New York, N. Y., 1614  
 W2XR, New York, N. Y., 1614, 2012,  
 2398, 23100, 41000  
 W7XBD, Portland, Ore., 1614, 2398,  
 3493  
 W9XAF, Milwaukee, Wis., 41000  
 W9XAG, Milwaukee, Wis., 1614, 2398,  
 3498, 4798, 6425, 8655

## Scanning the AMATEUR BANDS

• • • By B. L. Ahman, Jr.

INTERESTING letters from listeners far and near have added to our knowledge of amateur activities this month. While the "Trill Bands" have not been unusually thrilling this month, some good catches have been recorded.

Stanley LaRue of Beverly Hills, Calif., leads off with a question. "One morning between 1:15 and 1:45 am, EST, I picked up AC3KX. This is my third reception of this strange station and I am at a loss to know where it is located," he writes. "The operator of AC3KX said, the first night I heard him, that reports were welcome and would be confirmed, but I haven't yet been able to get the QRA. The signal strength is usually about QSA3, R4, with fading bringing the signals up at times for short intervals. The operator has a peculiar foreign accent that I cannot identify, and he announces his call in English as AC3KX, A-America, C-China, Three, K-King, X-Xray."

Can any RADEX readers help Mr. LaRue?

The *Australasian Radio World* reports that several members of the No. 8 Squadron, Royal Air Force, at Aden, have formed a shortwave club and have put a transmitter on the air on 20 meters. It works only on code at present, from 8 am to midnight, daily except Mondays and Tuesdays. Pending assignment of an official call, they are using the call letters KSWC.

Al Bettinger writes in with the news that a new ham has just been licensed in Guatemala, TG9AA. This news followed on the heels of a report that all Guatemalan hams will be given TG9-calls.

North African stations have now reached their peak, while South Africans are but rarely received. Two northern Africa stations have exceptionally attractive cards, and they reply quickly to reports. The stations are CN8AJ and SU1SG and listeners who have not yet verified them should try to do so.

### Good Catches

Listeners desiring to add a new country to their logs should keep a sharp look-out for G8LP in the Channel Islands. This station has a British prefix, but inasmuch as the Channel Islands is governed under Norman laws it can hardly be considered as a part of the United Kingdom. The Islanders themselves claim they have no connection with Britain.

The 20 meter band opens up near 1 am, EST, for European stations, and usually the very first one to come through is ES5D in Estonia. It is one of the best European signals at this time. About a half hour later the British stations come through and it is not uncommon to log at least twenty different G's in a morning. The best ones are G6QN G5RV and G2XV.

Other early morning catches are GM2UU on 14276 kcs, GI2CC, PAOMQ, VP1BA and ZP2AC.

Paraguayan ZP2AC is best received near 3 o'clock in the morning, and VP1BA in British Honduras comes through in the evening as well as in the early morning hours. VP1BA is heard just below the American phone band.

### Some Reports

Walter Th. Kamman of Caracas, Venezuela reports a number of stations which are given in the Calls Heard section. His best catch is HZ3D, which, according to the international prefixes, would be in Hejaz in Asia Minor.

Tom McCormick of Shaker Heights, Ohio, who hopes to be a

fullfledged amateur before long, reports good reception on ten meters. Some of the better ten meter catches are I1IT, I1IR, I1IKN, GW2UL, CN8AV, ZS2N, ZS6AJ and ZU6T. Tom has heard every continent except Asia on ten, and he says he will have his ten meter Heard All Continents as soon as YI2BA goes on this band.

Charles Genan of Jamestown, N. Y., and George Nahas of Brooklyn, N. Y., tell us that reception in New York State is fine. Charles is hearing regularly stations in Venezuela, Argentina, the British West Indies, Great Britain and Newfoundland. George reports his best catch is FR8VP in Syria.

Jack Quintrell of Seat Pleasant, Md., reported a lot of good catches in this column last month, and more of his Calls Heard are shown in that section this month. We are sure the real estate values will boom in Seat Pleasant when the DXers read over his list of stations heard and flock to that pleasant little town to take up their residences.

Station W1OXAB, sometimes operated under the call OX2QY, at Reindeer Point, Etah, Greenland, is reported by David Hill of Washington, D. C., and by Martin Olthoff of Independence, Kans. The call OX2QY is used when the station operates as an amateur, and W1OXAB when used as a commercial station.

### Addresses

We list below the call letters, the frequency and the address when known of every amateur station mentioned in these columns. Addresses will not be repeated, however, so readers are urged to keep these columns for future reference.

*(The letters LF, MF and HF in parentheses following the call letters of stations mentioned in this column indicate the Low Frequency, Middle Frequency and High Frequency portions of the 20 meter amateur band. Low Frequency*

stations are those on frequencies between 14,000 and 14,100. Middle Frequencies are from 14,100 through 14,300. High Frequencies are from 14,300 through 14,400. No attempt is made to show exact frequencies as they vary so greatly).

CN8AJ, Rene Crettien, 29 Rue des Villas, Casablanca, Morocco.

FR8VP, Rerie Fritsch, i/c Communications T-4 Station, Box 107, via Homs, Syria.

GW2UL, Ernest Dell, Morlais, Dowdeswell Place, Upper Loughor, Swansea Glam., Wales.

G8LP, H. G. Hanley, 20 Uplands Ave., Bradmore, Wolverhampton, Gt. Britain.

KSWC, (Temporary call), L. A. C. Dean, No. 8 Squadron, Royal Air Force, Aden.

TG9AA, 7th Ave., South 94, Guatemala City, Guat. 55 watts. On 10 and 20 meters.

YI2BA, Messrs. Mellon & Norman, c/o Port Directorate, Basyra, ya, Mirgil ya, Iraq.

ZS6AJ, J. P. R. Friedenthal, P. O. Staff, Johannesburg, Union of South Africa. (LF).

## Readers' Questions

(Continued from page 32)

necting or central insulator at one corner of the attic, over the radio set. Take one leg of the antenna and stretch it down one side and along the other. It will turn at right angles at the next corner of the wall. In other words, its layout will resemble a letter L laid horizontally on its side. Then take the other leg or wire and run it around the other two side walls of the attic. If the length of two sides of the attic are more than 30 feet total distance, then the two wires will not meet at the corner diagonally opposite from which you started. There should be as much distance as pos-

sible between these extreme ends of the two doublet wires. The antenna leadin, which will not pick up noise, can be dropped down to the receiver. While this scheme does not permit of the two halves of the doublet being stretched out in one straight line for highest efficiency, it does permit of considerable signal pickup and helps reduce the noise.

## World of DX

(Continued from page 23)

tions concerned. Stations affected by the law would be Poste Parisien, 959 keys; Lyons, 1393 keys; Toulouse, 913 keys; and Radio Normandie, 1113 keys. Apparently the new law will have no effect on the situation at all. No doubt, however, the British authorities will not give up the task."

"There are a few corrections to the time schedules of stations as listed in the January RADEX," advises Clarence Wakefield, Warton, Ont. "CKLW is now on from 6 to 4 a.m., EST, while CJRC now signs off at about 2 a.m. I tuned in KFVB the other morning and heard them sign off at 4 a.m., EST, saying they would be back on the air at 6:30—which would make their schedule 9:30 to 4 a.m., EST."

"Who remembers," queries E. M. Vickers, Box 121, Coral Gables, Fla., "When Harry Snodgrass was tickling the ivories over WOS; and WCAP was the Chesapeake & Ohio Telephone Co. in Washington; when KDPM was broadcasting from Cleveland, Ev Jones held forth with the cuckoos over WJAX in that city, and WTAM shared time with WSBT; and when WJZ and WEAJ used the same antenna, but broadcast on different frequencies?"

# Frequency Check Schedule

**T**HE Federal Communications Commission recently has adopted a new schedule for its monthly frequency checks. Reducing the periods for each station from 20 to 15 minutes, the FCC now has one or more broadcasters signing on every five minutes. A total of 335 stations is included in the schedule which is now in operation.

As in the past, the tests take place during the second week of each month. In April, the schedule will commence on Friday the 8th and continue through Thursday the 14th.

All times listed are a.m., Eastern Standard.

Second Monday	
3:00-3:15	—WABY 1370 Albany, N. Y.
3:05-3:20	—WMAS 1420 Springfield, Mass.
3:10-3:25	—WCAX 1200 Burlington, Vt.
3:15-3:30	—WRDO 1370 Augusta, Maine
3:20-3:35	—WAGM 1420 Presque Isle, Me.
3:30-3:45	—WQDM 1390 St. Albans, Vt.
3:35-3:50	—WMFF 1310 Plattsburg, N. Y.
3:40-3:55	—WABI 1200 Bangor, Maine
3:45-4:00	—WCAD 1220 Canton, N. Y.
3:50-4:05	—WLNH 1310 Laconia, N. H.
3:55-4:10	—WIBX 1200 Utica, N. Y.
4:00-4:15	—WVRL 1500 Woodside, N. Y.
4:05-4:20	—WMBO 1310 Auburn, N. Y.
4:10-4:25	—WBRB 1210 Red Bank, N. J.
4:20-4:35	—KVOX 1310 Moorhead, Minn.
4:25-4:40	—KFPV 1210 Fort Smith, Ark.
4:30-4:45	—WMIN 1370 St. Paul, Minn.
4:35-4:50	—KNET 1420 Palestine, Texas
4:40-4:55	—WBBZ 1200 Ponca City, Okla.
4:45-5:00	—KFGQ 1370 Boone, Iowa
4:50-5:05	—KRBC 1420 Abilene, Texas
4:55-5:10	—KGHI 1200 Little Rock, Ark.
5:00-5:15	—KTEM 1370 Temple, Texas
5:05-5:20	—KABR 1420 Aberdeen, S. D.
5:10-5:25	—KGEK 1200 Sterling, Colo.
5:15-5:30	—KFJZ 1370 Fort Worth, Texas
5:20-5:35	—WMBH 1420 Joplin, Mo.
5:25-5:40	—WIL 1200 St. Louis, Mo.
5:30-5:45	—WOC 1370 Davenport, Iowa
5:35-5:50	—KABC 1420 San Antonio, Texas
5:40-5:55	—KADA 1200 Ada, Okla.
5:45-6:00	—KLUF 1370 Galveston, Texas
5:55-6:10	—KHBC 1400 Hilo, Hawaii
6:00-6:15	—KRE 1370 Berkeley, Calif.
6:05-6:20	—KXO 1500 El Centro, Calif.
6:10-6:25	—KWG 1200 Stockton, Calif.
6:15-6:30	—KERN 1370 Bakersfield, Calif.
6:20-6:35	—KUMA 1420 Yuma, Ariz.
6:25-6:40	—KVCV 1200 Redding, Calif.
6:30-6:45	—KLS 1280 Oakland, Calif.
6:35-6:50	—KYOS 1040 Merced, Calif.
6:40-6:55	—KSUN 1200 Lowell, Ariz.
6:45-7:00	—KGDM 1100 Stockton, Calif.
6:50-7:05	—KIEM 1450 Eureka, Calif.
6:55-7:10	—KVEC 1200 San Luis Obispo, Calif.

Second Tuesday	
3:00-3:15	—WJSJ 1310 Winston-Salem, N. C.
3:05-3:20	—WMFJ 1420 Daytona Beach, Fla.
3:10-3:25	—WAIM 1200 Anderson, S. C.
3:15-3:30	—WMFD 1370 Wilmington, N. C.
3:20-3:35	—WEED 1420 Rocky Mount, N. C.
3:25-3:40	—WJNO 1200 W. Palm Beach, Fla.
3:30-3:45	—WRDW 1500 Augusta, Ga.
3:35-3:50	—WICA 940 Ashtabula, Ohio
	—WIOD 610 Miami, Fla.
3:40-3:55	—WAYX 1200 Waycross, Ga.
	—WBLY 1210 Lima, Ohio
3:45-4:00	—WDNC 1500 Durham, N. C.
	—WPAY 1370 Portsmouth, Ohio
3:50-4:05	—WAIR 1250 Winston-Salem, N. C.
	—WMBC 1420 Detroit, Mich.
3:55-4:10	—WALR 1210 Zanesville, Ohio
	—WMFR 1200 High Point, N. C.
4:00-4:15	—WHBB 1500 Selma, Ala.
	—WKRC 550 Cincinnati, Ohio
4:05-4:20	—WCLE 610 Cleveland, Ohio
	—WSMB 1320 New Orleans, La.
4:10-4:25	—KALB 1210 Alexandria, La.
	—WLBC 1310 Muncie, Ind.
4:15-4:30	—KELD 1370 El Dorado, Ark.
	—WOPI 1500 Bristol, Tenn.
	—WWAE 1200 Hammond, Ind.
4:20-4:35	—WACO 1420 Waco, Texas
	—WBCM 1410 Bay City, Mich.
	—WDBO 590 Orlando, Fla.
4:25-4:40	—KXYZ 1440 Houston, Texas
	—WCMI 1310 Ashland, Ky.
	—WSIX 1210 Nashville, Tenn.
4:30-4:45	—KGKL 1370 San Angelo, Tex.
	—WHBY 1200 Green Bay, Wis.
	—WHOP 1500 Kosciusko, Miss.
4:35-4:50	—KCMC 1420 Texarkana, Tex.
	—WHK 1390 Cleveland, Ohio
4:40-4:55	—KRGV 1260 Westlaco, Texas
	—WADC 1320 Akron, Ohio
4:45-5:00	—KTOK 1370 Oklahoma City, Okla.
	—WJBK 1500 Detroit, Mich.
4:50-5:05	—KGFJ 1420 Shawnee, Okla.
4:55-5:10	—KFVS 1210 Cape Girardeau, Mo.
5:00-5:15	—KMAC 1370 San Antonio, Texas
5:05-5:20	—KAND 1310 Corsicana, Texas
5:10-5:25	—KLAH 1210 Carlsbad, N. Mex.
5:15-5:30	—KIUP 1370 Durango, Colo.
5:20-5:35	—KFXR 1310 Oklahoma City, Okla.
5:25-5:40	—KDLR 1420 Devils Lake, N. D.
5:30-5:45	—KICA 1370 Clovis, N. Mex.
5:35-5:50	—KGMB 1320 Honolulu, Hawaii
5:40-5:55	—KBTM 1200 Jonesboro, Ark.
5:45-6:00	—KRCM 1370 Jamestown, N. D.
6:05-6:20	—KORE 1420 Eugene, Ore.
6:10-6:25	—KOOS 1200 Marshfield, Ore.
6:15-6:30	—KAST 1370 Astoria, Ore.
6:20-6:35	—KPQ 1500 Wenatchee, Wash.
6:25-6:40	—KFXD 1200 Nampa, Idaho
6:30-6:45	—KUJ 1370 Walla Walla, Wash.
6:35-6:50	—KRNR 1500 Roseburg, Ore.
6:40-6:55	—KVOS 1200 Bellingham, Wash.
6:45-7:00	—KEEN 1370 Seattle, Wash.
6:50-7:05	—KMED 1410 Medford, Ore.
7:00-7:15	—KRKO 1370 Everett, Wash.

Second Wednesday	
3:00-3:15	—WTEL 1310 Philadelphia, Pa.
3:05-3:20	—WNBF 1500 Binghamton, N. Y.
3:10-3:25	—WLVA 1200 Lynchburg, Va.
3:15-3:30	—WSAJ 1310 Grove City, Pa.
3:20-3:35	—WWSW 1200 Pittsburgh, Pa.
3:25-3:40	—WBAX 1500 Wilkes-Barre, Pa.
3:30-3:45	—WHAT 1310 Philadelphia, Pa.
3:35-3:50	—WRTD 1500 Richmond, Va.

3:40-3:55 WBBL 1210  
 3:45-4:00 WBNY 1370  
 3:50-4:05 WHIS 1410  
 3:55-4:10 WKOK 1210  
 4:00-4:15 WFBG 1310  
 4:05-4:20 WQAN 880  
 4:10-4:25 KWNO 1200  
 —WHDL 1400  
 4:15-4:30 KRIS 1330  
 WEBR 1310  
 —WIBM 1370  
 4:20-4:35 KBST 1500  
 —WPAR 1420  
 KSO 1430  
 WCLO 1200  
 4:30-4:45 KROC 1310  
 —WEOA 1370  
 4:35-4:50 KDAL 1500  
 —WELL 1420  
 4:40-4:55 WHBC 1200  
 WTAW 1120  
 4:45-5:00 KRMD 1310  
 —WSAU 1370  
 4:50-5:05 —KNEU 1500  
 —WLP 1420  
 4:55-5:10 KFD 560  
 —WFAM 1200  
 5:00-5:15 —KPDN 1310  
 5:05-5:20 —KPLT 1500  
 —WCBS 1420  
 5:10-5:25 —KGKO 570  
 5:15-5:30 KPFL 1310  
 —WDWS 1370  
 5:20-5:35 KAWM 1500  
 —WPAD 1420  
 5:25-5:40 —KGLO 1210  
 —WJCB 1200  
 5:30-5:45 —KRRV 1310  
 WGL 1370  
 5:35-5:50 KGKY 1500  
 5:40-5:55 —WIBU 1210

**Second Thursday**

3:00-3:15 —WKAT 1500  
 3:05-3:20 —WJRD 1200  
 3:10-3:35 —WSOC 1210  
 3:15-3:30 —WAML 1310  
 3:20-3:35 —WPAR 1370  
 3:25-3:40 WPAX 1210  
 3:30-3:45 —WQAM 560  
 3:35-3:50 —WPRP 1420  
 3:40-3:55 —WFTC 1200  
 3:45-4:00 WKAQ 1240  
 3:50-4:05 —WBIG 1440  
 3:55-4:10 —WFOY 1210  
 4:00-4:15 —WAGF 1370  
 4:05-4:20 KPLC 1500  
 —WFDF 1310  
 4:10-4:25 —WSPD 1340  
 4:15-4:30 —WCPO 1200  
 —WMFO 1370  
 4:20-4:35 KFIZ 1420  
 WKEU 1500  
 4:25-4:40 —WGBF 630  
 —WGCM 1210  
 4:30-4:45 —KFYO 1310  
 —WAVE 940  
 —WFOR 1370  
 4:35-4:50 —KFJM 1410  
 —WMPS 1430  
 —WTMV 1500  
 4:40-4:55 —KGCU 1240  
 —KQV 1380  
 —WBHP 1200  
 4:45-5:00 —KWOS 1310  
 WCOC 880  
 —WGRC 1370  
 4:50-5:05 —KOTN 1500  
 4:55-5:10 —WEW 760  
 —WJMS 1420  
 5:00-5:15 —KGHF 1320  
 WHDF 1370  
 5:05-5:15 —KGFI 1500

Richmond, Va.  
 Buffalo, N. Y.  
 Bluefield, W. Va.  
 Sunbury, Pa.  
 Altoona, Pa.  
 Scranton, Pa.  
 Winona, Minn.  
 Olean, N. Y.  
 Corpus Christi, Tex.  
 Buffalo, N. Y.  
 Jackson, Mich.  
 Big Spring, Texas  
 Parkersburg, W. Va.  
 Des Moines, Iowa  
 Janesville, Wis.  
 Rochester, Minn.  
 Evansville, Ind.  
 Duluth, Minn.  
 Battle Creek, Mich.  
 Canton, Ohio  
 College Station, Tex.  
 Shreveport, La.  
 Wausau, Wis.  
 Brady, Texas  
 Lexington, Ky.  
 Beaumont, Texas  
 South Bend, Ind.  
 Pampa, Texas  
 Paris, Texas  
 Springfield, Ill.  
 Wichita Falls, Tex.  
 Dublin, Texas  
 Champaign, Ill.  
 Gallup, N. Mex.  
 Paducah, Ky.  
 Mason City, Iowa  
 Bloomington, Ill.  
 Sherman, Texas  
 Fort Wayne, Ind.  
 Scottsbluff, Neb.  
 Poynette, Wis.

—WTRC 1310  
 5:10-5:25 KHBG 1210  
 5:15-5:25 —KONO 1370  
 5:20-5:35 —KGKB 1500  
 5:25-5:40 KASA 1210  
 5:30-5:45 —KPRO 1370  
 5:35-5:50 —KNOV 1500  
 5:40-5:55 —WMFG 1210  
 5:45-6:00 KRLH 1420  
 5:50-6:05 KCRJ 1310  
 5:55-6:10 —KIUL 1210  
 —KVOA 1260  
 6:05-6:20 KHUB 1310  
 6:10-6:25 KGGC 1420  
 6:15-6:30 —KGRJ 1370  
 6:20-6:35 KSRO 1310  
 6:25-6:40 KTRB 740  
 6:30-6:45 KJBS 1070  
 6:35-6:50 —KSUB 1310  
 6:40-6:55 KDON 1210  
 6:45-7:00 KGU 750  
 6:50-7:05 KHSL 1260  
 6:55-7:10 KROY 1210

**Second Friday**

3:00-3:15 —WSVS 1370  
 3:05-3:20 WJAC 1310  
 3:10-3:25 —WJTN 1210  
 3:15-3:30 —WBLK 1370  
 3:20-3:35 —WLEU 1420  
 3:25-3:40 —WCAP 1280  
 —WSAY 1210  
 3:30-3:45 —WDEV 550  
 —WGH 1310  
 3:35-3:50 WCNW 1500  
 —WNBS 1420  
 3:40-3:55 —WFAS 1210  
 —WMBG 1350  
 3:45-4:00 —WOKO 1430  
 —WRAW 1310  
 3:50-4:05 —WDAS 1370  
 —WSYB 1500  
 3:55-4:10 —WNBZ 1290  
 —WSYR 570  
 4:00-4:15 WBRE 1310  
 4:05-4:20 WBTM 1370  
 —WNLC 1500  
 4:10-4:25 —WGBB 1210  
 —WHCC 1430  
 4:15-4:30 —WTHT 1200  
 4:20-4:35 —WNHQ 1500  
 —WRAK 1370  
 4:25-4:40 —WBOW 1310  
 —WJNY 1210  
 4:30-4:45 —WJBL 1200  
 4:35-4:50 KATE 1420  
 —WKBB 1500  
 4:40-4:55 KARK 890  
 —WJMJ 1210  
 4:45-5:00 —WEXL 1310  
 —WHLB 1370  
 4:50-5:05 —KIUN 1420  
 4:55-5:10 —KFJB 1200  
 5:00-5:15 —KGGM 1230  
 —WBEO 1310  
 5:05-5:20 KGIW 1420  
 —WKBV 1500  
 5:10-5:25 KGDE 1200  
 —WHBF 1210  
 5:15-5:30 KGFL 1370  
 —WEMP 1310  
 5:20-5:35 —KEUB 1420  
 5:25-5:40 WCAT 1200  
 —WEBQ 1210  
 5:30-5:45 —KWYO 1370  
 5:35-5:50 KIDW 1420  
 5:40-5:55 KFJX 1200  
 5:45-6:00 KGBX 1230  
 5:50-6:05 KRQA 1310

**Second Saturday**

3:35-3:50 —WKBZ 1500  
 3:40-3:55 —WJW 1210  
 3:45-4:00 —WBNS 1430

Elkhart, Ind.  
 Okmulgee, Okla.  
 San Antonio, Tex.  
 Tyler, Texas  
 Elk City, Okla.  
 Longview, Texas  
 Austin, Texas  
 Hibbing, Minn.  
 Midland, Texas  
 Jerome, Ariz.  
 Garden City, Kans.  
 Tucson, Ariz.  
 Watsonville, Calif.  
 San Francisco, Calif.  
 Tucson, Ariz.  
 Santa Rosa, Calif.  
 Modesto, Calif.  
 San Francisco, Calif.  
 Cedar City, Utah  
 Monterey, Calif.  
 Honolulu, Hawaii  
 Chico, Calif.  
 Sacramento, Calif.

Buffalo, N. Y.  
 Johnstown, Pa.  
 Jamestown, N. Y.  
 Clarksburg, W. Va.  
 Erie, Pa.  
 Asbury Park, N. J.  
 Rochester, N. Y.  
 Waterbury, Vt.  
 Newport News, Va.  
 Brooklyn, N. Y.  
 Uniontown, Pa.  
 White Plains, N. Y.  
 Richmond, Va.  
 Albany, N. Y.  
 Reading, Pa.  
 Philadelphia, Pa.  
 Rutland, Vt.  
 Saranac Lake, N. Y.  
 Syracuse, N. Y.  
 Wilkes-Barre, Pa.  
 Danville, Va.  
 New London, Conn.  
 Freeport, N. Y.  
 Rochester, N. Y.  
 Hartford, Conn.  
 Brooklyn, N. Y.  
 Williamsport, Pa.  
 Terre Haute, Ind.  
 Newburgh, N. Y.  
 Decatur, Ill.  
 Albert Lea, Minn.  
 Dubuque, Iowa  
 Little Rock, Ark.  
 Lansing, Mich.  
 Royal Oak, Mich.  
 Virginia, Minn.  
 Pecos, Texas  
 Marshalltown, Iowa  
 Albuquerque, N. M.  
 Marquette, Mich.  
 Alamosa, Colo.  
 Richmond, Ind.  
 Fergus Falls, Minn.  
 Rock Island, Ill.  
 Roswell, N. Mex.  
 Milwaukee, Wis.  
 Price, Utah  
 Rapid City, S. D.  
 Harrisburg, Ill.  
 Harrisburg, Wyo.  
 Lamar, Colo.  
 Grand Junction, Colo.  
 Springfield, Mo.  
 Santa Fe, N. Mex.

Muskegon, Mich.  
 Akron, Ohio  
 Columbus, Ohio



3:50-4:05	WGAR	1450	Cleveland, Ohio
	WOLS	1200	Florence, S. C.
3:55-4:10	WCOL	1210	Columbus, Ohio
	WIAK	1310	Lakeland, Fla.
4:00-4:15	WCAZ	1070	Carthage, Ill.
	WQBC	1360	Vicksburg, Miss.
4:05-4:20	WJBO	1120	Baton Rouge, La.
	WSMK	1380	Dayton, Ohio
4:10-4:25	WOMT	1210	Manitowoc, Wis.
	WTAL	1310	Tallahassee, Fla.
4:15-4:30	WNEL	1290	San Juan, P. R.
	WOSU	570	Columbus, Ohio
4:20-4:35	WDZ	1020	Tuscola, Ill.
	WMSD	1420	Muscle Shoals, Ala.
4:25-4:40	WGTM	1310	Wilson, N. C.
	WHBU	1210	Anderson, Ind.
4:30-4:45	WJBW	1200	New Orleans, La.
	WKBN	570	Youngstown, Ohio
4:35-4:50	WGPC	1420	Albany, Ga.
	WNAD	1010	Norman, Okla.
	WXYZ	1240	Detroit, Mich.
4:40-4:55	KOVC	1500	Valley City, N. D.
	WTAX	1210	Springfield, Ill.
	WTJS	1310	Jackson, Tenn.
4:45-5:00	KLCN	1290	Blytheville, Ark.
	WMBR	1370	Jacksonville, Fla.
	WMPC	1200	Lapeer, Mich.
4:50-5:05	KGCA	1270	Decorah, Iowa
4:55-5:10	KOCA	1210	Kilgore, Texas
	KVOL	1310	Lafayette, La.
5:00-5:15	KBIX	1500	Muskogee, Okla.
	WBNO	1200	New Orleans, La.
5:05-5:20	KPAC	1260	Port Arthur, Tex.
5:10-5:25	KANS	1210	Wichita, Kans.
	WROL	1310	Knoxville, Tenn.
5:15-5:30	KMLB	1200	Monroe, La.
	KTRH	1290	Houston, Texas
5:20-5:35	KLPM	1240	Minot, N. D.
5:25-5:40	KVSO	1210	Ardmore, Okla.
5:30-5:45	KWLC	1270	Decorah, Iowa
5:35-5:50	KTSM	1310	El Paso, Texas
5:40-5:55	KWTN	1210	Watertown, S. D.
5:45-6:00	WLB	1250	Minneapolis, Minn.
5:50-6:05	KOBH	1370	Rapid City, S. D.
5:55-6:10	KPFA	1210	Helena, Mont.
6:00-6:15	KIT	1250	Yakima, Wash.
6:05-6:20	KGBU	900	Ketchikan, Alaska
6:10-6:25	KFJI	1210	Klamath Falls, Ore.
6:15-6:30	KGEZ	1310	Kalspell, Mont.
6:20-6:35	KGVO	1260	Missoula, Mont.
6:25-6:40	KGY	1210	Olympia, Wash.
6:30-6:45	KXRO	1310	Aberdeen, Wash.
6:35-6:50	KGCX	1450	Wolf Point, Mont.
6:40-6:55	KFIO	1120	Spokane, Wash.
6:45-7:00	KINY	1310	Juneau, Alaska
6:50-7:05	KFQD	780	Anchorage, Alaska
6:55-7:10	ERLC	1390	Lewiston, Idaho

## New Television Tubes



THE more critical requirements of television reception are being met by two cathode-ray tubes recently developed and now made available by Allen B. DuMont Laboratories, Inc., of Upper Montclair, N. J. The Type 54-10-T has a 5-inch diameter screen and a maximum third anode voltage rating of 3000. The Type 144-10-T has a 6000-volt rating and a twelve-inch diameter screen.

On January 30, WBRE in Wilkes-Barre, Pa., became an NBC outlet, optional to either the Red or the Blue Networks. This brings the total of NBC stations up to 144. WBRE, owned by Louis G. Baltimore, transmits on 1310 kcs with 100 watts. The new 180 foot vertical antenna is already in operation, and it is expected a new 250 watt RCA transmitter will be installed in the spring. WBRE has been on the air since 1927.

Both of these tubes employ a unique design which prevents defocusing of the spot when the video signal modulates the tube. This has heretofore been one of the difficulties with television reception, because when the cathode-ray tube was adjusted to give a sharp line at a certain value of signal, it blurred at other signal values. With these new DuMont television reception tubes a sharp focus is maintained at all values of applied video signal, giving a clearer-cut televi-

sion picture than it has been possible to obtain with any of the tubes available until now.

The standard screen provides a pleasing green light. Tubes are available on special order, however, with a white screen giving a black-and-white picture.

Both tubes mentioned employ electrostatic focusing and deflection. Electrostatic focusing is believed by the DuMont engineers to be more practical than electromagnetic, since the latter requires an extremely constant current supply so that even the slightest line-voltage fluctuations can spoil the focus of the television picture. Also, electrostatic deflection is considered superior to electromagnetic because it is necessary to introduce distortion into an electromagnetic deflection circuit to compensate for the inductance of the magnetic deflecting coils. Also, electromagnetic deflection requires the use of an iron core coupling transformer with a flat frequency characteristic to about 160 kc between the deflection amplifier and the deflection coils. This is necessarily expensive, while the electrostatic deflection circuits are relatively simple.

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Richard Crooks, Voice of Firestone tenor, never borrowed so much as a cent to help pay for his education. When his voice had already attracted attention, one of the great conductors offered, with the aid of a wealthy friend, to have Crooks supplied with \$10,000 to complete his studies abroad. Despite the fact he had just been married and was making ends meet on \$25 a week, he turned the offer down. He determined that whatever he was to have, he must earn himself. And he has never swerved from that resolution.

## Special DX Calendar

The time given in the DX Calendar is in EST by the 24-hour clock.

### DX Tips Periods

- Mon., 0300-0315, KMTR, 570 kcs.  
1100-1115, WEEU, 830 kcs.  
2115-2130, CJCJ, 690 kcs.
- Mon., 2115-2130, CJCJ, 690 kcs.
- Tues., 1835-1900, W2XAF, 9530 kcs.,  
and W2XAD, 15330 kcs.
- Wed., 0035-0045, KOY, 1390 kcs.  
1345-1400, WTAR, 780 kcs.
- Thurs., 0230-0245, KGMB, 1320 kcs.  
2215-2230, W8XWJ, 41,000 kcs.  
"The SWL Chatterbox."
- Fri., 2330-2345, W8XK, 6140, and  
KDKA, 980 kcs.
- Sat., 0230-0245, KLS, 1280 kcs.  
0300-0345, KDB, 1500 kcs.  
1030-1045, WEEU, 830 kcs.

### Special Broadcasts

- March 20, 0700-0730, 4IP, Ipswich,  
Australia, 1440 kcs. (UDXC).
- March 22, 0200-0500, KGKB, Tyler,  
Texas, 1500 kcs.
- March 27, 0300-0400, KFOR, 1210 kcs.  
(IDA)
- April 2, 0245-0400, CHWK, Chilliwack,  
B. C., 780 kcs. (UDXC).
- Apr. 3, 0200-0300, KIDO, Boise, Idaho,  
1350 kcs. (BBDXC)
- May 7, 0245-0400, CHWK, Chilliwack,  
B. C., 780 kcs. (UDXC).
- June 4, 0245-0400, CHWK, Chilliwack,  
B. C., 780 kcs. (UDXC)

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### SPECIAL

A special program will be broadcast for the IDA and the CDXR on April 24, from station 3AK, Melbourne, Australia. The station will come on the air at 6:45 am, EST, and will call the clubs at 7:00 am, at 7:15 and at 7:30 am, EST. Station 3AK, known as the "Voice of the Night," transmits on 1500 kcs with 250 watts power. Address Mr. G. D. Hutchins, 10 Ordnance Quarters, Maribyrnong, W3, Vic., Australia.

# The MONTH'S CHANGES in STATION DATA

This information is compiled just before we go to press, after the forms for most of the other pages are closed. Some very recent changes, received too late to index in this issue, are included here, and will be incorporated next month in our main indices.

NEW			1310 XECW	Mexico City, D. F.
940 4QR	Brisbane, Qsld.	500 w.	1400 ZZO	Palmerston, N. Z.
990 2YD	Wellington, N. Z.	National Brdestg. Sys.	1470 3ZM	Christchurch, N. Z.
1010 XEFQ	Cananea, Son.	Pedro L. Diaz, Av. Sonora 97	980 XEAC	<b>OWNER</b> Jorge I. Rivera, Av. Mexico 12, Tijuana, B. Cfa.
1040 HJ3ABZ	Bogota, Colombia.		1000 XEBI	Pedro C. Rivas, Primo Verdad 14, Aguascalientes, Ags.
1130 HJ7ABD	Bucaramanga, Colombia.		1020 XEJ	Pedro Meneses, Jr., Av. Lerdo 309, Juarez, Chih.
1150 XEBP	Durango, Dgo.	Manuel Cano M., Pino Suarez 412	1080 XEBK	G. Guajardo y M. M. Cortes, Bravo y Guerrero, Nuevo Laredo, Tams.
1160 XEFM	Leon, Gto.	Raul Ortiz G., Aquiles Serdan 7.	1200 WRBL	Columbus Brdestg. Co., Inc., Royal Theater Bldg., Columbus, Ga.
1200 XEBU	Chihuahua, Chih.	Feliciano Lopez Islas, Amdo. 157.	1210 XEFV	Dario Cordoba, Juarez, Chih.
1250 XEAI	Mexico City, D. F.	Carmen Gutierrez, Bahía de Santa Barbara 114.	1220 XEDA	Pedro Riestra Diaz, Ixtlachuatl 5, Gral. Anaya, D. F.
1340 XEDH	Villa Acuna, Coah.	Vicente Hernandez, Galeana y B. Dominguez	1240 XEKL	Hemmer y Romero S. de R. L., Madero 18, Leon, Gto.
1420 .....	Beaumont, Tex.	Beaumont Brdestg. Assn.	1310 XETB	Aurelio G. Zaragoza, Morelos 5060 Pte., Torreon, Coah.
1500 KYSM	Mankato, Minn.	F. B. Clement & Co.	1370 XELZ	Maria Gardena de Zetina, Mexico City, D. F.
WGIL	Galesburg, Ill.	Galesburg Brdestg. Co.	1500 WRTD	State Planters Bank Bldg., Richmond, Va.
.....	Laredo, Texas.	Mervel M. Valentine		

## FREQUENCY

580 XELO	Tijuana, B. Cfa., from 670
600 XET	Monterrey, N. L., from 690
610 XEXM	Mexico City, D. F., from 1280
XEYO	Mexico City, D. F., from 940
780 2KA	Katoomba, NSW., from 1160
810 XEBZ	Mexico City, D. F., from 1160
890 XEK	Mexico City, D. F., from 990
1070 IZB	Auckland, N. Z., from 1090
1080 XEBK	Nuevo Laredo, Tams., from 1000
1130 XEJP	Mexico City, D. F., from 1120
2ZB	Wellington, N. Z., from 1120
1230 XEG	Monterrey, N. L., from 1220
1310 XEXS	Mexico City, D. F., from 1000
1340 XEAP	Obregon, Son., from 1240
XEBS	Mexico City, D. F., from 1240
1520 TGW	Guatemala City, Guat., from 1230

## POWER

580 XEMU	Piedras Negras, Coah. 250 w.
713 No. 1	Rome, Italy, 100,000 from 50,000
850 KPOF	Denver, Colo. 1000 from 500
980 XEFE	Nuevo Laredo, Tams. 250 from 150
1080 XEBK	Nuevo Laredo, Tams., 100 from 60
1160 XEAS	Saltito, Coah., 100 from 50

## NETWORK

1030 CKLW	Windsor, Ont., new CBC
	<b>CALL LETTERS</b>
680 4YZ	Invercargill, N. Z., from 4AP
920 2YN	Nelson, N. Z., from 2ZR
1310 KWOC	Poplar Bluff, Mo., from KPBM

## REINSTATED

920 WRAX	Philadelphia, Pa.
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## DELETE

600 CBW	Windsor, Ont.
670 XERO	Chapultepec, D. F.
810 XEXC	Aguascalientes, Ags.
960 2ZF	Palmerston, N. Z.
1060 XEAD	Guadalajara, Jal.
XEMG	Atzacapotzaco, D. F.
1100 XECL	Mexicali, B. Cfa.
1160 XEBJ	Merida, Yuc.
1230 XEFJ	Monterrey, N. L.
1240 XEAY	Mexico City, D. F.



A busy lady is Eileen Maher, NBC dramatic actress, who does a bit of fashion modeling when she is not acting. The rest of her time is spent in commuting between her Long Island home and New York City.

**PERMIT TO CHANGE FREQUENCY**

- 980 XEFE Nuevo Leon, Tams.
- 1190 WATR Waterbury, Conn., to 1290
- 1240 KLPM Minot, N. Dak., to 1360
- 1250 WCAL Northfield, Minn., to 760
- WLB Minneapolis, Minn., to 760
- 1310 KINY Juneau, Alaska, to 1430
- WOL Washington, D. C., to 1230
- 1420 KABR Aberdeen, S. Dak., to 1390

**PERMIT TO CHANGE POWER**

- 570 CMCY Havana, Cuba, to 10000
- KGKO Wichita Falls, Tex., to 1000
- 590 WKZO Kalamazoo, Mich., to 250 (1).
- 760 KXA Seattle, Wash., to 1000
- 810 CMCF Havana, Cuba, to 5000
- 850 WWL New Orleans, La., to 50000
- 880 CMW Havana, Cuba, to 5000
- WCOC Meridian, Miss., to 1000
- 890 KFNF Shenandoah, Iowa, to 1000 (5)
- 900 KGBU Ketchikan, Alaska, to 1000
- 920 CMX Havana, Cuba, to 10000
- 950 WRC Washington, D. C., to 1000 (5)
- 1000 CMBZ Havana, Cuba, to 5000
- 1110 CMCJ Havana, Cuba, to 5000
- KSOO Sioux Falls, S. Dak., to 5000
- 1170 CMBS Havana, Cuba, to 5000
- 1190 WATR Waterbury, Conn., to 250
- 1240 KLPM Minot, N. Dak., to 500 (1)
- 1250 WCAL Northfield, Minn., to 5000
- WLB Minneapolis, Minn., to 5000
- 1260 CMBD Havana, Cuba, to 5000
- 1300 KALE Portland, Ore., to 1000
- 1310 KINY Juneau, Alaska, to 250
- WOL Washington, D. C., to 1000
- 1340 WCOA Pensacola, Fla., to 1000
- 1350 CMCA Havana, Cuba, to 5000
- 1420 KABR Aberdeen, S. Dak., to 500 (1)
- 1430 WBNS Columbus, Ohio, to 1000 (5)
- 1490 KFBK Sacramento, Calif., to 10000

**PERMIT TO CHANGE LOCATION**

- 1570 KGKO Wichita Falls to Ft. Worth, Texas
- 500 WKBB E. Dubuque, Ill., to Dubuque, Iowa



The spot temporarily vacated by Nelson Eddy on the Chase and Sanborn Hour has been filled by 25-year old John Carter. This is the first regular radio program for this young tenor.

**Amateur**

**CALLS HEARD**

The names and addresses of persons reporting stations shown in this list are indicated by small letters following the call signs. Key to the small letters is given at the end of the column.

Canadian and United States calls heard are listed here only when reported by listeners not resident in North America. Cuban calls are not listed when heard by listeners in United States or Cuba.

**28 Megacycles—10 Meters**

- EI2L (a); GM6IR (p); GM6RG (a); G-: 2AI (a); 2VG (a); 5VM (a); 6AG (a); 6LC (a); 6LK (a); 6PC (a); 6VX (a); 8GX (a); 8WX (a); HI7G (p); K4-: EMG (a); EPO (p); EZR (p); SA (p); K6-: JLV (p); LCV (a); MVV (ap); OGS (p); OQE (a); OQM (ap); PCF (a); PIR (a); TG9AA (a); TI2FG (a); VK2GU (a); XE1GE (ap); YV6AL (a); ZL3DJ (a).

**14 Megacycles—20 Meters**

- CE-: 1AI (p); 1AO (l); 2BR (lq); 3AA (gp); 3AI (al); 3CO (lp); CN-: SAM (o);

- 8AV (imo); CP1AA (d); CT1QG (d); CT1QP (n); CX1DSR (m); CX2ABA (m).

**E-F**

- EA9AH (b); EI-: 2J (d); 2L (i); 4L (b); ES5D (n); FR8VX (n); FY8E (n); F8-: MG (d); QD (n); TQ (i).

**G**

- GI-: 2CC (d); 2CE (m); 6XS (bd); GM-: 2UU (g); 5NW (n); G-: 2GJ (m); 5JO (di); 5LU (d); 5ML (bdn); 5JF (d); 6LK (l); 6WO (d); 8LP (d).

**H**

- HC-: 1JB (bcgk); 1XU (m); HH-: 2B (abefghjmop); 2FX (b); 2G (q); 2X (a); 4AS (p); 5PA (abefghjmnp); 5Q (m); HI-: 1C (abn); 2K (n); 2W (abf); 3C (p); 3N (abgjmno); 4F (n); 5X (abemnpq); 60 (n); 7G (abn); 7I (agnq); 9I (an); HJ-: 1BT (m); 1GC (m); HK-: 1DG (g); 1GK (h); 1JC (abh); 1JN (a); 1JO (g); 1K (m); 1PA (ab); 3JA (bnp); 3JB (a); 4AG (b); 4EA (g); 5AR (a); 5DB (c); 50BC (g); HO2U (n); HP1A (bhn); HR5C (n).

**K**

- KA1BH (n); KA1ME (a); K2BR (n); K4-: DDH (abn); EIL (p); EJF (bcghjmop); EMY (o); ENT (bgp); ENY (agn); FAY (abgm); K6-: BAZ (dl); BHL (ln); BJJ (i); BMC (l); BNR (ablnp); CMC (fm); GAG (i); GAS (b); GCQ (d); GQF (lp); JLV (l); KF (l); KGA (l); KMP (l); MBB (l); MTE (l); NZQ (ablnp); OQE (bm); PMP (j); K7FBE (d); K7PQ (n).

**L**

- LU-: 1DA (abghp); 1DJ (aef); 1JC (a); 2BG (a); 2CA (r); 4AD (p); 4BH (abgp);

4CZ (alo); 4KA (b); 5CK (m); 5CZ (gilp); 6KE (a); 7AC (b); 7AZ (lq); 9BB (e); LY1P (n).

**N-O-P**

NY2AE (bino); OA-: 1RX (k); 4AF (a); 4AL (bdop); 4C (n); 4R (ab); OQ5AA (bno); OQ5AE (n); OX2QY (adnp); PAOGN (n); PAOUN (n); PY-: 1CK (a); 1MK (g); 2AC (n); 2AI (g); 2GJ (a); 2HA (b); 8AG (q).

**S-T**

SU1KG (a); SV1KE (d); TG-: 1AX (g); 1AY (m); TI-: 2AV (ae); 2HB (c); 2KP (h); 2RC (ab); 3WD (aq).

**V**

VK-: 1KE (i); 2ADE (d); 2ADO (l); 2AFO (l); 2TC (n); 2UC (ak); 3AZ (d); 3EZ (a); 3GQ (dn); 3KX (n); 3MR (a); 3TW (a); 4EC (e); 4JU (ae); 4VD (n); 7CL (a); 7JB (n); VO-: 1I (b); 1Y (d); 2N (e); 2Z (f); 4A (j); 6D (bcdg); 6J (boq); 6P (o); VP-: 2AT (n); 2DA (bn); 2TG (b); 3BG (d); 3THE (abdfnp); 4TC (d); 4TH (n); 5AS (d); 5GM (a); 5PM (n); 6MR (bgop); 6NW (o); 6PR (df); 6YB (fnnp); 7NA (in); 9G (mno); 9R (bgmn).

**W**

W-: 1AVK (i); 3FAM (i); 3GS (i); 5CFK (i); 7BVO (i); 8AAJ (i); 9TQ (i); 10XAB (p).

**X-Y-Z**

XE-: 1BC (h); 1DT (ab); 1F (ab); 1FF (ab); 1FG (a); 1LK (aq); 2CY (b); 2E (h); 2FC (a); 2HD (ab); 2HO (p); 2IY (abq); 2JK (a); 2RY (p); XWJJ (n); YL2BB (n); YV-: 1AA (m); 1ABY (b); 1AC (b); 1AG (g); 1AP (ab); 1AQ (ghmp); 1LC (h); 3AN (a); 4AA (a); 4AB (abgn); 4AM (b); 4AV (i); 4AX (b); 5ABA (bn); 5ABD (b); 5ABF (abgp); 5ABM (o); 5ABQ (an); 5ABY (abghnop); 5AC (p); 5AD (m); 5AE (hn); 5AJ (m); 5AK (abg); 5AN (ablp); 5AV (a); 5AX (h); 5AZ (bealop); ZE1JR (i); ZE2HD (f); ZS-: 2N (bj); 3F (b); 6AJ (b); ZT1M (bi); ZT1R (o); ZT6P (d); ZU5L (o); ZU6P (g); ZU6T (b); ZU9BH (m).

**The Reporters**

- (a) Al Bettinger, 2465 N. 47th Ave., Omaha, Nebr.
- (b) Gail Beyer, 3226 Sunnyside Ave.,

- (c) Chicago, Ill.  
L. S. Broussard, Box 2283, Beaumont, Texas.
- (d) Edwin Eaton, 36 Center St., Wethersfield, Conn.
- (e) Ben Follrath, 1419 Pearl St., Alameda, Calif.
- (f) Russell Geiger, Youngstown, Ohio.
- (g) Gil Harris, N. Adams, Mass.
- (h) Henry Hendrickson, Jr., Route 1, McGregor, Iowa.
- (i) Walter Th. Kamman, Box 1891, Caracas, Venezuela.
- (j) Geo. Kline, Jr., 230 Chatham St., Williamsport, Pa.
- (k) C. R. Martin, 316 Tenth St., Elyria, Ohio.
- (l) F. McDonald, 215 E. 34th St., Tucson, Ariz.
- (m) Kenneth Morey, 14 Lawndale St., Easthampton, Mass.
- (n) Jack Quintrell, 445 Carmody Road, Seat Pleasant, Md.
- (o) Edward Sherman, Jr., 91 Grove St., No. Attleboro, Mass.
- (p) Bob Taglauer, 223 Orchard Road, Ft. Mitchell, Covington, Ky.
- (q) Jack Welsh, Kingston, Ill.
- (r) Hadley Wilcox, 623 W. 40th Place, Los Angeles, Calif.

## Across the EDITOR'S Desk

SO YOU like to read the Editor's mail! Last month we let you read some of the letters that passed over this desk, and your comments on this idea pleased us so much that we are going to let you read some of this month's correspondence.

Alan Hutchison of Dunedin, New Zealand, one of our correspondents in that country who keeps us constantly informed on New Zealand radio doings, submits a report on general reception. He writes, "When compared with the high totals run up in the States my log appears as a midget, but reception conditions are totally different down here. We have around 130 stations in our part of the world and have to pull the Americans through in the early evening or after the Australians have signed off between midnight and 2 am. My verified log stands at 440, with prospects of reaching 500 early this year, my fifth year of DXing.

### TIME CONVERTER

The RADEX Map of the World with Time Converting Dial is the most useful accessory any radio fan could have around. Just a twirl of the dial shows the correct time at any location in the world. No calculation is necessary; the dial does all the work.

**You Can't Get Along Without It.**

**The price is only**

**25c**

(26c in Ohio)

The log includes 250 stations located in North America, 30 of them being 100-watters; ten South Americans and a number of Easterns and Europeans. Considered as 'good catches' are TGW, KZIB in Manila, WQXR and CE76. Recent loggings include WMBR, KPQ, KSAL, KTEM, KFJZ, WWSW, WRAK and KAND on FCC Checks."

Mr. Hutchison says he would be pleased to correspond with DXers in America to exchange experiences and information. His address is 15 Embo St., Dunedin, SW1, New Zealand.

Those DXers who are interested in learning the Morse code are invited to tune in WRTD in Richmond, Va. at 6:45 pm. EST. on Thursdays. The Morse code is not hard to learn. You can learn all the characters in half an hour, but after that you need practice . . . lots of it. The commercial stations send too fast and the amateur bands are too confusing to the tyro, so stations like WRTD should be publicly thanked for putting on slow transmissions for the benefit of beginners. WRTD works on 1500 kcs. with 100 watts.

#### New Stations

We have just completed an agreement with Alfonso Velasco of Mexico City which will assure us of constant and accurate information on shortwave stations in Central and South America. We were also fortunate this month in making a similar arrangement with Pedro Casas of Montevideo, Uruguay. Uruguayan station information submitted by Sr. Casas appears in the regular shortwave column, but Sr. Velasco's contribution was received a little too late to properly classify in that section of RADEX.

New stations reported by Sr. Velasco are:

VUD2, Delhi, India, 9590 kcs., heard daily at 9:30 pm. and fades out near 10:45 EST.



*One of the catch phrases of the world today, "How to Win Friends and Influence People," is the title Dale Carnegie brought over from his publisher's office and bestowed upon his radio program. These interesting programs are broadcast every Tuesday at 10:45 pm EST over the NBC-Red.*

HC1GQ, Nariz del Diablo, Ecuador, 9180 kcs., heard on Mondays, Wednesdays and Saturdays from 9 to 10:30 pm. EST.

HC1RB, Quito, Ecuador, 7870 kcs., daily from 8:30 to 11:30 pm.

HIG, Trujillo, Dominican Republic, 9290 kcs., daily from 2 to 9 pm.

HJ4ABU, Medellin, Colombia, 8640 kcs., heard testing at night.

TGQA, Quezaltenango, Guatemala, 6420 kcs., on irregular nights from 8 to 10 pm.

"Radio Fort de France," Martinique, on 9350 kcs., daily from 8 to 9 pm. This station is not to be confused with "Radio Martinique," which is on 9690-9730 kcs.

XETA, Monterrey, N. L., Mexico, 11765 kcs., daily 3 to 3:30 pm.

TG25, a mobile station in Guatemala, 5770 kcs., heard irregularly at night.

The Mexican shortwave stations which are in actual use at the present time are:

XEBT 6000 Mexico City, D. F.  
XEUV 6022 Veracruz, Ver.  
XETW 6045 Tampico, Tams.  
XECU 6085 Guadalajara, Jal.  
XEBF 6090 Jalapa, Ver.  
XEUZ 6115 Mexico City, D. F.  
XEXA 6170 Mexico City, D. F.  
XECR 7380 Mexico City, D. F.  
XEWV 9500 Mexico City, D. F.  
XEDQ 9520 Guadalajara, Jal.  
XETF 9550 Veracruz, Ver.  
XETA 11760 Monterrey, N. L.  
XEBR 11820 Hermosillo, Son.  
XEWI 11900 Mexico City, D. F.

There is also station XBA which gives only time signals and weather reports, and the bootleg station on 7090, "Radio del Pueblo" at Guadalajara, which will soon be closed down, according to reports.

#### First Reports

The first American report on HC1GQ comes from Gilbert Harris of North Adams, Mass. He gives the frequency as 9175, and the address as P. O. Box 159, and says that sometimes it is heard as late as 11 or 11:15 pm. Gilbert also reports that PSH has extended its schedule, broadcasting now from 6 to 9 pm. EST. PSH, Rio de Janeiro, transmits on 10220 kcs.

The first of our countrymen (and women) to report TGQA proves to be that famous DXing Duo, Carl and Ann Eder of Willmar, Minn. They give the frequency as 6440 kcs., and say that letters should be addressed in care of the Director General of Electrical Communications at Guatemala City.

Carl and Ann also report HC1CQ, and inasmuch as they give the frequency as 9170, we wonder if this cannot be HC1GQ. The station they heard signed off at 10.45 pm. (CST?) with the Blue Danube Waltz.

#### And Visitors

If you enjoy reading the editor's

mail we are sure you would enjoy even more visiting with the editor's visitors. People like Helen Lind, Mary Eleanor O'Neill, Rev. Frank Nelson, Jack Siringer and Jack Gardner. They help to make our pleasant work even more enjoyable, and they assist us materially with their fine reports.

The ladies seem to like Sr. Cespedes of TI4NRH. They both report this popular Costa Rican station on 9670 kcs., and last Saturday night Miss O'Neill was thrilled to hear her letter acknowledged over the air. This station opens and closes its transmissions with "The Parade of the Wooden Soldiers," and the announcements, in English and Spanish, are perfectly spoken. Sr. Cespedes is truly the paragon of radio announcers, with his slowly spoken, clearly enunciated words and phrases. Try for him! If you live within 10,000 miles of Costa Rica, you can hear him. Then write to him, and receive his attractive four-color diploma. Address Sr. Amando Cespedes Marin, Apartado 40, Heredia, Costa Rica.

Rev. Nelson, who does a bit of broadcasting on the side, looked in on the facsimile equipment which WHK is installing. He is very enthusiastic about it, and has asked for one of the fifty experimental receivers which will be installed in the Cleveland area. The FCC requires that every facsimile licensee must have at least fifty receivers within its service area, and we hope that Rev. Nelson will be successful in getting one. These receivers, which will cost about \$125, can be attached to a regular broadcast receiver, and automatically reproduce permanent pictures or text matter broadcast by the station.

#### DX Clubs

A few weeks ago Herbert Tucker of Akron, Ohio, had a get-together meeting at his home, for the pur-

pose of forming a Northern Ohio Chapter of the IDA. A few of us went over and spent an enjoyable Sunday afternoon swapping DX reminiscences and looking over verifications. Herbert Tucker was elected president of the Chapter, and the other officers will be selected at the next meeting, which will be held at the home of Jack Gardner, in Cleveland.

Alfred J. Stansfield, president of the Universal DX Club, requests us to announce that the Editorial Headquarters of the Universal DX Club are at 130-30—90th Ave., Richmond Hill, N. Y., but the business headquarters are still at Oradell, N. J. Applications for membership and requests for sample bulletins should therefore be addressed to Oradell, and reports for inclusion in the bulletins, to Richmond Hill.

An SWL card contest is announced by the Before Breakfast DX Club of Beverly Hills, Calif. Stanley La Rue, president, says this contest is open to everyone, regardless of club affiliations, and the contest is so easy that everyone should try it. Any shortwave listener who wishes to enter simply has to count the number of foreign countries represented among his SWL cards, and submit the number to the Club. The address of the Club is 309 S. Bedford Drive, Beverly Hills. Here are the rules:

1. Only the number of countries represented in your own personal collection of cards is to be entered.
2. You do not have to submit the cards, but you must be prepared to submit the cards for examination when requested.
3. All entries must be mailed on or before midnight, July 15, 1938.
4. BBDXC members may submit their entries without paying a fee since they receive the bulletins regularly. Non-members, however, are requested to submit a fee of ten cents, which will entitle them to receive the several

lists which will be issued during the contest, showing the standings of all the contestants. Stamps from foreign countries equal in value to United States ten cents will be accepted. The prizes, all of them worth while, are a 5-tube Knight receiver, an RCA doublet antenna, or a choice of a beat oscillator, a spider-web antenna kit, or many others.

### A New Note in Music

This is not on the subject of radio, but it is so interesting we thought we would pass it along. If you're the kind of a piano player the editor is, and have trouble with sharps and flats, you will welcome Symprovised music. It is not "simplified", but is presented just as the composer wrote it, but, with all the natural notes printed in black, and all the flats printed in red. It is so easy to play you'll wonder why no one thought of it before. What is more, the entire composition appears on three inner folds and may be played without turning a page, and, the notes high above or way below the staff are lettered so you don't have to stop and count the leger lines. You will be seeing a lot of Symprovised music soon.

### Our Shortwave List

The index of shortwave stations which starts on the opposite page lists the police and emergency stations of North America, along with Coast Guard stations, Alaskan 'phones, ships and lighthouses. The balance of the shortwave stations will be given in the May issue.

Worthy of special mention is the work of C. Roman, his father and his sister, of Chicago, for the immense amount of work they did on the lighthouses, forestry, airport and police stations. Martin Olthoff of Independence, Kans., also assisted materially with airport station data.



# The SHORTWAVE STATIONS of the WORLD

Shortwave List Copyright 1938 by Page Taylor

In this index of the shortwave stations of the world, only stations which use voice are listed.

Frequencies are given in kilocycles per second. To change to megacycles, place a decimal point three digits to the left.

The studio locations are shown, and the location of the transmitter, when different from the studios, follows in parentheses.

Power is shown in watts, unless kilowatts (kw) is mentioned.

Following the power value, the symbols in parentheses indicate the type of station, as follows:

B—Broadcast                   Em—Emergency  
 C—Commercial               F—Forestry  
     Phone                    LH—Lighthouse  
 CG—Coast Guard           P—Police  
 E—Experimental          SS—Ship Phone

The word DRIFTS indicates that the station is in the habit of shifting from its assigned frequency.

Abbreviations for identification aids are—Int. (interval signal); s/o (sign-on or sign-off); Ann (announcements); Add (Address); Hrs (Hours).

Du—Dutch                    Jap—Japanese  
 Eng—English               Port—Portuguese  
 Fr—French                  Ru—Russian  
 Ger—German               Sp—Spanish  
 It—Italian

Unconfirmed stations, those under construction, and stations operating off their assigned frequencies, are given in *italics*.

\*An asterisk indicates that the complete list of stations is given in another index.

1596	(Temporary Frequency) Findlay, Ohio. 500 (P)	1634	KRNP Reno, Nev. 1 kw. (P)
—WPGG	Columbus, Ohio. 400 (P)	—WPHE	Indianapolis, Ind. 500. (P)
—WPGQ	Massillon, Ohio. 400 (P)	—WPHS	Chesterton, Ind. 60. (P)
—WPHC	Wilmington, Ohio. 400 (P)	—WPIHU	Jasper, Ind. 60. (P)
—WPHK	Cambridge, Ohio. 400 (P)	—WQFE	Seymour, Ind. 60. (P)
—WPHI	Portland in Ohio. 100 (P)	—WQFW	Columbia City, Ind. 60. (P)
—WFFT	Midland, Jamaica. (P)	—WRSA	Seitunte, R. I. 250. (P)
1600	VFC Kingston, Jamaica. (P)	—WSP1	Portable in Ind. 60. (P)
VPH	Ruby, Alaska. (C)	1638	* Pan-American Airways
1606	KIKP Chicago, Ill. 1 kw. (P)	1642	KASP Little Rock, Ark. 1 kw. (P)
—WQPC	DuQuoin, Ill. 1 kw. (P)	—WRDH	Houghton Hts., Mich. 1 kw. (P)
—WQPD	Effingham, Ill. 1 kw. (P)	—WRDP	Paw Paw, Mich. 1 kw. (P)
—WQPF	Sterling, Ill. 1 kw. (P)	—WRDS	E. Lansing, Mich. 1 kw. (P)
—WQPG	Macomb, Ill. 1 kw. (P)	1646	KALG Squaw Harbor, Alaska. (C)
—WQPM	Pontiac, Ill. 1 kw. (P)	KALH	Pt. Moller, Aaa. 100. Pacific American Fisheries, Inc.
—WQPP	Springfield, Ill. 1 kw. (P)	KALI	Lazy Bay, Aaa. 100. (C) P.A.F.
—WQPX	Portable in Ill. 500. (P)	KALJ	King Cove, Aaa. (C)
1620	VAC Cape Lazo, B. C., Canada. 50. (C)	KALL	Nelson Lagoon, Aaa. 30. (C) P.A.F.
1622	KAMH Chignik, Alaska. 30. (C) Alaska Packers Assn.	KALQ	Petersburg, Aaa. 30. (C) P.A.F.
KAMI	Larson Bay, Aaa. 30. (C) A.P.A.	KALU	Naknek, Aaa. 30. (C)
KAMJ	Chignik, Alaska. 30. (C) A.P.A.	KIDB	Kasaan, Aaa. (C) P.A.F.
KAMK	Becharof, Aaa. 30. (C) A.P.A.	WOMW	Motorship "Minnleha"
KAML	Naknek, Aaa. 30. (C) A.P.A.	WOMX	M/S "Empress"
KAMN	Uyak Bay, Aaa. 30. (C) A.P.A.	WOMY	M/S "Glenwood"
KANL	Red Bluff Bay, Aaa. 50. (C) Red Bluff Bay Fisheries, Inc.	WOPE	M/S "Admiralty"
KGXU	Pt. Armstrong, Aaa. 10. (C) Buchan & Heinen Packing Co.	1658	KKFD Kensington Park, Calif. 50. (Fire)
KIJK	Kuiu Island, Aaa. 10. (C) Storfold & Gron Dahl Packing Co.	—KNHD	Redwood Falls, Minn. 400. (P)
KIJO	Pt. Herbert, Aaa. 10. (C) Pt. Herbert Packing Co.	KSPT	Pecos, Texas. 500. (P)
1626	KOSO Oklahoma City, Okla. 1 kw. (P)	KSW	Berkeley, Calif. 500. (P)
KOSP	Portable in Okla. (P)	—WPGC	S. Schenectady, N. Y. 1 kw. (P)
KOSR	Portable in Okla. 150. (P)	WQFR	Portable in N. Y. 250. (P)
KOSU	Portable in Okla. (P)	.....	Contra Costa, Calif. 60. (P)
KOSW	Portable in Okla. (P)	.....	Hayward, Calif. 500. (P)
KOSX	Portable in Okla. (P)	.....	Port. in Alameda Co., Calif. 100. (P)
KOSY	Portable in Okla. (P)	1660	KAJH Anchorage, Alaska. 200. (C)
WPWV	Charlestown, W. Va. 1 kw. (P)	KAMT	Libby, McNeill & Libby.
—WWTA	St. Albans, Vt. 500. United States Bureau of Customs.	KNCE	Kenai, Aaa. 50. (C) L.M.L.
1630	WEY Boston, Mass. 50. (Fire)	KNCF	Eggek, Bristol Bay, Aaa. 100. (C) L.M.L.
WKDT	Detroit, Mich. 50. (Fire)	KNGS	Egegik, Aaa. 100. (C) L.M.L.
—WNYF	New York, N. Y. 500. NYC Fire Dept., Municipal Bldg.	1666	—WMP Framingham, Mass. 1 kw. (P)
		—WPFL	W. Bridgewater, Mass. 1 kw. (P)
		—WPEV	Portable in Mass. 50. (P)
		—WPEW	Northampton, Mass. 1 kw. (P)

	WSPN	Nantucket, Mass. 20. (P)		KGPR	Fort Worth, Tex. (P)
	WSPQ	Oak Bluffs, Mass. 20. (P)		KGZL	Shreveport, La. (P)
1674	KGHK	Palo Alto, Calif. 20. (P)		KGZQ	Waco, Texas. 50. (P)
	KGZT	Santa Cruz, Calif. 100. (P)		KGZY	San Bernardino, Calif. 50. (P)
	KHPA	Lees Summit, Mo. 1 kw. (P)		KHAA	Wahiawa, Hawaii. 50. (P)
	KHPB	Macon, Mo. 1 kw. (P)		KHAB	Kaneohe, Hawaii. 50. (P)
	KHPC	Kirkwood, Mo. 1 kw. (P)		KHAC	Pearl City, Hawaii. 50. (P)
	KHPD	Springfield, Mo. 1 kw. (P)		KHTP	Houston, Tex. 200. (P)
	KHPE	Poplar Bluff, Mo. 1 kw. (P)		KNFJ	Pomona, Calif. 50. (P)
	KHPF	Jefferson City, Mo. 1 kw. (P)		KNGE	Cleburne, Tex. 50. (P)
	KTUK	Jefferson City, Mo. 1 kw. (P)		KNGL	Galveston, Tex. 50. (P)
	KSPH	Hillisborough, Calif. 25. (P)		KNGX	Los Angeles, Calif. (Portable)
	KWCP	Watsonville, Calif. 50. (P)			
	WAMF	Portable in Pa. 500. (P)		KNHF	Denton, Tex. 50. (P)
	WPSF	Harrisburg, Pa. 1 kw. (P)		KPAT	Port Arthur, Tex. 60. (P)
1682	KACC	Fairfield, Iowa. 500. (P)		KSBC	San Bernardino, Calif. 500. (P)
	KACD	Atlantic, Iowa. 500. (P)		KVP	Dallas, Texas. 500. (P)
	KADJ	Sacramento, Calif. 1 kw. (P)		—VYR	Montreal, P. Q. 400. (P)
	KADK	Hilo, Hawaii. 500. (P)		—WAKF	Everett, Mass. 50. (P)
	KAPI	Grass Valley, Calif. 25. (P)		—WAKV	Fall River, Mass. 50. (P)
	—KGHO	Des Moines, Iowa. 1 kw. (P)		—WMPB	Brookton, Mass. 50. (P)
	KNFN	Cedar Falls, Iowa. 400. (P)		—WMPH	Newport, R. I. 50. (P)
	KNFO	Storm Lake, Ia. 400. (P)		—WMPN	Needham, Mass. 50. (P)
	KSCY	Yreka, Calif. 50. (P)		—WMPR	Revere, Mass. 50. (P)
	KSPR	Redding, Calif. 300. (P)		—WPDB	Chicago, Ill. 500. (P)
1600	CJR	Belleville, Ont. (P)		—WPDC	Chicago, Ill. 500. (P)
	VDM	Hallfax, N. S. (P)		—WPDD	Chicago, Ill. 500. (P)
1692	WQFT	Portable in Ohio. 100. (P)		—WPDU	Pittsburgh, Pa. 400. (P)
1698	KNGG	Phoenix, Ariz. 1 kw. (P)		—WPED	Arlington, Mass. (P)
	WAKJ	Duval Co., Fla. 350. (P)		—WPEH	Somerville, Mass. (P)
	WAKR	Pensacola, Fla. 350. (P)		—WPEI	E. Providence, R. I. (P)
	WAKS	Orlando, Fla. 350. (P)		—WPF A	Newton, Mass. 50. (P)
	WAKT	Tampa, Fla. 350. (P)		—WPFN	Fairhaven, Mass. 100. (P)
	WAKU	St. Myers, Fla. 350. (P)		—WPGF	Providence, R. I. 150. (P)
	WAKZ	W. Palm Beach, Fla. 250. (P)		—WPGU	Cohasset, Mass. 50. (P)
	—WDSP	New Castle, Del. (P)		—WPGV	Boston, Mass. 500. (P)
	—WEVN	Belair, Md. 250. (P)		—WPHG	Medford, Mass. 50. (P)
	—WHWN	In Md. 250. (P)		—WPJA	Warren, R. I. 40. (P)
	—WMSC	Cumberland, Md. 250. (P)		WQPL	Oak Park, Ill. 40. (P)
	—WMSE	Easton, Md. 250. (P)		WQFX	Waukegan, Ill. 100. (P)
	—WMSF	Frederick, Md. 250. (P)		.....	Westport, Mass. 50. (P)
	—WMSH	Crofting, Md. 250. (P)			
	—WMSR	Randallstown, Md. 250. (P)			
	—WMSW	Waldorf, Md. 250. (P)			
	.....	Harford, Md. 250. (P)			
1706	—KGPC	St. Louis, Mo. (P)	1715	AMATEURS	
	KOHC	Station 6, Ore. (Em)	to		
	KOHD	The Dalles, Ore. Station 10. (Em)	2000	WUMS	Proctorville, Ohio. 75.
	KOHF	Portable, Station 8, Ore. (Em)	2000	KMKK	S. S. "Islamorada." (SS).
	KOHH	Port. in Ore. 10. (Em)	2110	WCEK	S. S. "Bluffin." 50. (SS). State of Calif. Dept. of Natural Resources.
	KOHI	Port., Station 12, Ore. 10. (Em)		WPKS	S. S. "Aleksander I." 30. (SS). Pete Damarla
	KOJH	Port., Station 14, Ore. 10. (Em)		WPMP	S. S. "J. B. Edwards." 30. (SS). Ole J. Edwards
	KOKH	Klamath Falls, Station 3, Ore. (Em)		WPPC	S. S. "North Star." 50. (SS). Sam Lonero
	KOHL	Station 2, Ore. (Em)		WQBM	S. S. "Albacore." 50. (SS). State of Calif.
	KOHM	Station 9, Ore. (Em)		.....	S. S. "Denhy." Fishing vessel; works WOU
	KOHN	Bend, Station 4, Ore. 50. (P)	2118	KMKK	S. S. "Islamorada." (SS). Used only near Miami.
	KOHO	Port. in Ore. 10. (P)		WOGK	Yacht "Mako." 100. (SS). Thorne Donnelley
	KOHP	Pendleton, Sta. 11, Ore. (Em)	2126	KJJB	S. S. "Elizabeth River." 50 (SS). Phila. & Norfolk S. S. Co.
	KOHR	Roseburg, Ore., Sta. 5. 50w. (Em)		KJLY	S. S. "Hampton Roads." 50 (SS). P. & N.
	KOHS	Salem, Ore. 1 kw. (P)		KMKH	Yacht "Samona." (SS).
	KOHU	Burns, Ore. 50. (P)		WCEK	S. S. "Bluffin." 50. (SS). In vicinity of Seattle. State of Calif., Dept. of Natural Resources
	—WANH	Raleigh, N. C. 1 kw. (P)		WPKS	S. S. "Aleksander I." 30. (SS). Pete Damarla
	—WANI	Williamston, N. C. 1 kw. (P)		WPMP	S. S. "J. B. Edwards." 30. (SS). Ole J. Edwards
	—WANJ	Williamston, N. C. 1 kw. (P)		WPPC	S. S. "North Star." 50. (SS). Sam Lonero
	—WANK	Salisbury, N. C. 1 kw. (P)		WQBM	S. S. "Albacore." 50. (SS). State of Calif.
	—WANL	Elizabethtown, N. C. 1 kw. (P)	2150	.....	S. S. "Powhattan." Works WMI
	—WKDU	Cincinnati, Ohio. (P)		.....	S. S. "Upson." Works WMI
	—WPET	Lexington, Ky. (P)	2174	HPAY	Yacht "Virginia." Works with
1708	CKT	Pentiction, B. C. (P)			
	CZN	Cranbrook, B. C. (P)			
1710	CZ6F	Hamilton, Ont. (P)			
1712	COLZ	Havana, Cuba. (P)			
	KACU	Longview, Texas. 500. (P)			
	KADM	Gainesville, Texas. 50. (P)			
	KADT	Marshall, Tex. 50. (P)			
	KAPM	Wailuku, Hawaii. 100. (P)			
	KGHY	Whittier, Calif. 50. (P)			
	KGJX	Pasadena, Calif. 400. (P)			
	KGPJ	Beaumont, Tex. 100. (P)			
	KGPL	Los Angeles, Calif. (P)			
	KGPQ	Honolulu, Hawaii. 500. (P)			

KLOE KOU  
 S. S. "Caroline." 50. (SS). Jos.  
 M. Schenck, 20th Century-Fox  
 Films Corp., Beverly Hills, Calif.  
 KLWY Yacht "Gipsy." To KOU  
 KMKH Yacht "Samona." To KOU  
 VGBQ Yacht "Sevelyn." To KOU  
 WBDY Yacht "Boleiro II." To KOU  
 WCEK S. S. "Bluffin." 50. State of  
 Calif.  
 WDFV Yacht "Content"  
 WJDM Yacht "Sartarsia"  
 WKFK Tug "Racona"  
 WKFM Derick Barge No. 4  
 WKFN Tug "Sonoma"  
 WOJB Yacht "El Dorado"  
 WOKQ Yacht "The Chief"  
 WOLR Yacht "Mariner"  
 WPKS S. S. "Aleksander I." 30. (SS)  
 Pete Damarla  
 WPMP S. S. "J. B. Edwards." 30. (SS).  
 Ole J. Edwards  
 WPCC S. S. "North Star." 50. (SS)  
 WQBM S. S. "Albacore." 50. (SS).  
 State of Calif.  
 S. S. "Islamorada." Used only  
 near NYC.  
 2198 2318 2366 2382  
 CMKK CYQ Toronto, Ont. 400. (P)  
 CZ50 Ottawa, Ont. (P)  
 WAKC Freshford, N. J. 100. (P)  
 KGHT Brownsville, Tex. 25. (P)  
 KGHV Corpus Christi, Tex. 50. (P)  
 KNFE Duluth, Minn. 400. (P)  
 KNHB Green Bay, Wis. 100. (P)  
 WAKE Oshkosh, Wis. 500. (P)  
 WASP Selma, Ala. 100. (P)  
 WMPE Elkhorn, Wis. 100. (P)  
 WMPM Montgomery, Ala. 500. (P)  
 WPDN Auburn, N. Y. 50. (P)  
 WPEA Syracuse, N. Y. 40. (P)  
 WPFM Birmingham, Ala. 400. (P)  
 WPGW Mobile, Ala. 400. (P)  
 2390 CGZ Vancouver, B. C. 400. (P)  
 CJW St. John, N. B. 15. (P)  
 CJZ Verdun, P. Q. 20. (P)  
 2396 VYW Winnipeg, Man. 600. (P)  
 2406 KGHZ Little Rock, Ark. 100. (P)  
 KGPW Salt Lake City, Utah. (P)  
 KNHE Fort Smith, Ark. 100. (P)  
 2414 KACE Olympia, Wash. 50. (P)  
 KACJ Wenatchee, Wash. 250. (P)  
 KACK Bellingham, Wash. 50. (P)  
 KACN Ventura, Calif. 50. (P)  
 KACO Tracy, Calif. 15. (P)  
 KACS Bakersfield, Calif. 500. (P)  
 KACY Walla Walla, Wash. 50. (P)  
 KADL Port Orchard, Wash. 50. (P)  
 KAPH Stockton, Calif. 500. (P)  
 KAPL Hoquiam, Wash. 50. (P)  
 KASE Modesto, Calif. 250. (P)  
 KASF Bremerton, Wash. 50. (P)  
 KGH5 Spokane, Wash. 100. (P)  
 KGHW Centralia, Wash. 50. (P)  
 KGPA Seattle, Wash. 500. (P)  
 KGPFF Santa Fe, N. Mex. 25. (P)  
 KGPS Bakersfield, Calif. 50. (P)  
 KGZA Fresno, Calif. 500. (P)  
 KGZM El Paso, Tex. 100. (P)  
 KGZN Tacoma, Wash. 100. (P)  
 KGZO Santa Barbara, Calif. 100. (P)  
 KGZV Aberdeen, Wash. 125. (P)  
 KGZX Albuquerque, N. Mex. (P)  
 KNFA Clovis, N. Mex. 50. (P)  
 KNFI Mt. Vernon, Wash. 50. (P)  
 KNFP Everett, Wash. 50. (P)  
 KNGU Yakima, Wash. 100. (P)  
 KNGY Lodi, Calif. 40. (P)  
 KSON Merced, Calif. 25. (P)  
 WAKN Herkimer, N. Y. 50. (P)  
 WCK Detroit, Mich. 500. (P)  
 WMO Highland Park, Mich. 50. (P)  
 WMPF Waycross, Ga. 50. (P)

WPDA Tulare, Calif. 150. (P)  
 WPDJ Passaic, N. J. (P)  
 WPDX Detroit, Mich. 500. (P)  
 WPDY Atlanta, Ga. 400. (P)  
 WPFH Baltimore, Md. 200. (P)  
 WPFI Columbus, Ga. 250. (P)  
 WPGH Albany, N. Y. 300. (P)  
 WPGJ Utica, N. Y. 100. (P)  
 WPGM La Grange, Ga. 50. (P)  
 WQFB Macon, Ga. 250. (P)  
 WQFJ Oneonta, N. Y. 50. (P)  
 WQFV Augusta, Ga. 250. (P)  
 2422 KACA Atchison, Kans. 50. (P)  
 KACI Eureka, Calif. 100. (P)  
 KADS Marysville, Calif. 50. (P)  
 KAGD Woodland, Calif. 25. (P)  
 KASG Willows, Calif. 50. (P)  
 KGFE Kansas City, Mo. 500. (P)  
 KGGP Vallejo, Calif. 50. (P)  
 KGZC Topeka, Kans. 50. (P)  
 KNGF Sacramento, Calif. 500. (P)  
 KNGV Salina, Kans. 50. (P)  
 WNMJ Buffalo, N. Y. 500. (P)  
 WNPDR Niagara Falls, N. Y. 135. (P)  
 WPDWR Rochester, N. Y. 200. (P)  
 WPFU Washington, D. C. 400. (P)  
 WPHB Portland, Maine. 100. (P)  
 WPHB Nashua, N. H. 50. (P)  
 2430 KGPB Minneapolis, Minn. 500. (P)  
 KGZJ Phoenix, Ariz. 100. (P)  
 KNGP Shreveport, La. 100. (P)  
 KNHG Prescott, Ariz. 10. (P)  
 WAKH Bloomfield, N. J. 50. (P)  
 WAME Baton Rouge, La. 50. (P)  
 WBRP Baton Rouge, La. 250. (P)  
 WCPD Charleston, S. C. 50. (P)  
 WPMI Columbus, Ohio. 200. (P)  
 WPDMS Dayton, Ohio. 400. (P)  
 WPDMS St. Paul, Minn. 500. (P)  
 WPEK New Orleans, La. 250. (P)  
 WPFDF Highland Park, Ill. (P)  
 WPFK Hackensack, N. J. 500. (P)  
 WPHG Portsmouth, Ohio. 100. (P)  
 WPHO Zanesville, Ohio. 50. (P)  
 WPRH Rock Hill, S. C. 50. (P)  
 WQFO Lancaster, Ohio. 50. (P)  
 WSAG Ashland, Ky. 200. (P)  
 2442 KADV Eugene, Ore. 50. (P)  
 KASD San Angelo, Tex. 50. (P)  
 KGHU Austin, Tex. 100. (P)  
 KGPP Portland, Ore. 500. (P)  
 KGPX Denver, Colo. 400. (P)  
 KGZH Klamath Falls, Ore. 25. (P)  
 KGZR Salem, Ore. 50. (P)  
 KNHM Fargo, N. Dak. 100. (P)  
 WAKO Ft. Lauderdale, Fla. 50. (P)  
 WAMB Connersville, Ind. 40. (P)  
 WAMG Kalamazoo, Mich. 100. (P)  
 WASF Elwood, Ind. 50. (P)  
 WBNC New Castle, Ind. 40. (P)  
 WBDP Bloomington, Ind. 40. (P)  
 WMDZ Indianapolis, Ind. 400. (P)  
 WMPI Anderson, Ind. 100. (P)  
 WPDF Louisville, Ky. 200. (P)  
 WPDH Flint, Mich. 150. (P)  
 WPDH Richmond, Ind. 100. (P)  
 WPDH Lansing, Mich. 50. (P)  
 WPEB Grand Rapids, Mich. 500. (P)  
 WPCS Saginaw, Mich. 100. (P)  
 WPFCE Muskegon, Mich. 50. (P)  
 WPFCE Reading, Pa. 100. (P)  
 WPFCE Jacksonville, Fla. 400. (P)  
 WPFCE Lakeland, Fla. 50. (P)  
 WPFCE Palm Beach, Fla. 50. (P)  
 WPFCE Yonkers, N. Y. 400. (P)  
 WPFCE Miami, Fla. 500. (P)  
 WPFGL Binghamton, N. Y. 400. (P)  
 WPFGM Muncie, Ind. 100. (P)  
 WPHM Orlando, Fla. 500. (P)  
 WQFPM Wilkes-Barre, Pa. 100. (P)  
 Miami, Fla. 40. (P)  
 York, Pa. 40. (P)

- 2450 KACF Chickasha, Okla. 100. (P)  
 KACL Altus, Okla. 50. (P)  
 KACP Ponca City, Okla. 50. (P)  
 KACR Seminole, Okla. 50. (P)  
 KADG Tulsa, Okla. 40. (P)  
 KADH Mangum, Okla. 50. (P)  
 KADQ Hilo, Hawaii. 100. (P)  
 KAPB Cushing, Okla. 50. (P)  
 KAPC Drumright, Okla. 50. (P)  
 KAPD Eldorado, Kans. 50. (P)  
 KAPE Norman, Okla. 100. (P)  
 KAPF Okmulgee, Okla. 50. (P)  
 KARD Ardmore, Okla. 100. (P)  
 KGHN Hutchinson, Kans. 50. (P)  
 KGHP Lawton, Okla. 50. (P)  
 KGPH Oklahoma City, Okla. 250. (P)  
 KGPO Tulsa, Okla. 100. (P)  
 KGPZ Wichita, Kans. 400. (P)  
 KGZF Chanute, Kans. 25. (P)  
 KGZP Coffeyville, Kans. 50. (P)  
 KNGK Duncan, Okla. 50. (P)  
 KNGM Rapid City, S. Dak. 50. (P)  
 KNGT Muskogee, Okla. 50. (P)  
 KNHC Ada, Okla. 50. (P)  
 KVPB Huron, S. Dak. 40. (P)  
 KWCM Shawnee, Okla. 100. (P)  
 WMPD Waukesha, Wis. 100. (P)  
 -WPKD Milwaukee, Wis. 500. (P)  
 -WPEE Brooklyn, N. Y. 400. (P)  
 -WPEF Bronx, N. Y. 400. (P)  
 -WPEG New York, N. Y. 500. (P)  
 WPEP Kenosha, Wis. 100. (P)  
 -WPHF Richmond, Va. 400. (P)  
 WQFG Roanoke, Va. 100. (P)  
 -WQFH Lynchburg, Va. 50. (P)  
 WQFI Petersburg, Va. 250. (P)  
 2458 KACM Big Spring, Tex. 50. (P)  
 KADR Abilene, Tex. 40. (P)  
 KAPJ Sweetwater, Tex. 40. (P)  
 KGZI Wichita Falls, Tex. 200. (P)  
 -KGZW Lubbock, Tex. 150. (P)  
 KNFB Idaho Falls, Idaho. 500. (P)  
 KNGW Brownwood, Texas. 200. (P)  
 WAGR Urbana, Ill. 40. (P)  
 WAMN Lorain, Ohio. 50. (P)  
 WASB Decatur, Ill. 100. (P)  
 WDPW Wilmington, N. C. 100. (P)  
 WMPJ Clinton, Ill. 40. (P)  
 -WPDG Youngstown, Ohio. 250. (P)  
 WPDO Akron, Ohio. 250. (P)  
 -WPDV Charlotte, N. C. 250. (P)  
 -WPF5 Asheville, N. C. 500. (P)  
 -WPGD Rockford, Ill. 50. (P)  
 WPHD Steubenville, Ohio. 100. (P)  
 -WQFZ Ottawa, Ill. 500. (P)  
 -WRBH Cleveland, Ohio. 50. (P)  
 2466 KAWP Iowa City, Iowa. 50. (P)  
 KGOZ Cedar Rapids, Ia. 100. (P)  
 KGPD San Francisco, Calif. 400. (P)  
 KGPI Omaha, Nebr. 400. (P)  
 KGPK Sioux City, Ia. 100. (P)  
 KGPM San Jose, Calif. 100. (P)  
 KGPN Davenport, Ia. 100. (P)  
 KGZG Des Moines, Ia. 100. (P)  
 WAKB New London, Conn. 50. (P)  
 WAKG Clearwater, Fla. 50. (P)  
 WFPT Tampa, Fla. 200. (P)  
 -WMPW Waterbury, Conn. 50. (P)  
 -WPEC Memphis, Tenn. 400. (P)  
 -WPEM Woonsocket, R. I. 50. (P)  
 -WPFV Pawtucket, R. I. 50. (P)  
 -WPFW Bridgeport, Conn. 50. (P)  
 WPGA Bay City, Mich. 50. (P)  
 WPGP Port Huron, Mich. 50. (P)  
 -WPGK Cranston, R. I. 50. (P)  
 -WPGX Worcester, Mass. 100. (P)  
 -WPHA Fitchburg, Mass. 50. (P)  
 -WPHN Tampa, Fla. 100. (P)  
 WPHP Jackson, Mich. 100. (P)  
 -WQFA New Haven, Conn. 100. (P)  
 WQFC Gainsville, Fla. 50. (P)  
 WQFK Clearwater, Fla. 50. (P)  
 WIRD Grosse Pointe, Mich. 350. (P)  
 2474 KGHG Las Vegas, Nev. 50. (P)  
 KGHM Reno, Nev. 50. (P)  
 KNFH Garden City, Kans. 50. (P)  
 KNGH Dodge City, Kans. 50. (P)  
 WAKI Sandusky, Ohio. 50. (P)  
 WAMH Shelby, Ohio. 25. (P)  
 WKMP Kenton, Ohio. 50. (P)  
 WMPK Fremont, Ohio. 100. (P)  
 -WPDF Philadelphia, Pa. 50. (P)  
 -WPF0 Knoxville, Tenn. 40. (P)  
 WPFQ Swarthmore, Pa. 50. (P)  
 WPF5 Asheville, N. C. 500. (P)  
 WPGZ Johnson City, Tenn. 50. (P)  
 WPHY Elizabethton, Tenn. 100. (P)  
 WQFY Mansfield, Ohio. 50. (P)  
 -WIRDQ Toledo, Ohio. 400. (P)  
 2482 -KGZE San Antonio, Tex. 50. (P)  
 WPGT New Castle, Pa. 50. (P)  
 WPHZ Oil City, Pa. 50. (P)  
 WQFF Monessen, Pa. 50. (P)  
 WQFU Sharon, Pa. 50. (P)  
 2490 KACQ Kalaloch, Wash. 10. (P)  
 KADF Yuma, Ariz. 50. (P)  
 KADI Oceanside, Calif. 50. (P)  
 KADQ Brea, Calif. 50. (P)  
 KASH Portland in Wash. 50. (P)  
 KGHJ Seattle, Wash. 50. (P)  
 KGHK Snoqualmie Pass, Wash. 50. (Em)  
 KGHG Chinook Pass, Wash. 10. (Em)  
 KGHX Santa Ana, Calif. 400. (P)  
 KGZD San Diego, Calif. 50. (P)  
 KGZU Lincoln, Nebr. 20. (P)  
 KNFC Portland, Oreg., Wash. 50. (P)  
 KNFG Olympia, Wash. 250. (P)  
 KNFK Bellingham, Wash. 50. (P)  
 KNFM Compton, Calif. 25. (P)  
 KNFX Ellensburg, Wash. 10. (P)  
 KNGA Satus Pass Camp, Wash. 10. (Em)  
 KNGH Yakima, Wash. 50. (P)  
 KNGC Vancouver, Wash. 50. (P)  
 KNGD Walla Walla, Wash. 50. (P)  
 KNGJ El Centro, Calif. 50. (P)  
 KNGN Norfolk, Nebr. 25. (P)  
 KNGQ Wenatchee, Wash. 50. (P)  
 KNGR Spokane, Wash. 250. (P)  
 KNGZ Ephrata, Wash. 10. (P)  
 KSPM Portland in Wash. 50. (Em)  
 KSPN Port in Wash. 50. (Em)  
 KSPW Port in Wash. 15. (Em)  
 WAKA Huntington, Ind. 50. (P)  
 WAKK Frankfort, Ind. 50. (P)  
 WAMI Bluffton, Ind. 50. (P)  
 WAMJ Natchez, Miss. 100. (P)  
 WAMK Jackson, Miss. 50. (P)  
 WASC Peru, Ind. 50. (P)  
 WBWV Bluefield, W. Va. 50. (P)  
 WMPG Greenville, Miss. 50. (P)  
 WMPL LaPorte, Ind. 40. (P)  
 WMPQ Logansport, Ind. 100. (P)  
 WMPV Valparaiso, Ind. 50. (P)  
 WPDH Kokomo, Ind. 50. (P)  
 WPDZ Fort Wayne, Ind. 200. (P)  
 WPFH Clarksburg, W. Va. 30. (P)  
 WPGN South Bend, Ind. 100. (P)  
 WPGO Huntington, N. Y. 25. (P)  
 WPGS Mineola, N. Y. 40. (P)  
 WPHI Charleston, W. Va. 50. (P)  
 WPHJ Fairmount, W. Va. 100. (P)  
 WPHQ Parkersburg, W. Va. 50. (P)  
 WQFQ Lafayette, Ind. 50. (P)  
 Davenport, Wash. 10. (P)  
 Marton, Ind. 50. (P)  
 Raymond, Wash. 50. (P)  
 2500 XEXP Monterrey, N. L. 30. (E)  
 2506 KLH San Rafael, Calif. (SS). Pacific Telegraph & Telephone Co.  
 Mansfield, Mass. (SS). New England Telephone & Telegraph Co.  
 -WOU  
 2512 KGJK S. S. "Jeanette E." (SS). Skinner

	& Eddy Corp.	KIOH	Iron Creek, Aaa. 50. (C).
KGM	Ketchikan, Alaska. S. & E.	KIOI	Southwestern Herring Co.
KGNM	S. S. "Doris E." Skinner & Eddy		Akutan, Aaa. 50. (C). American
KGNX	S. S. "Yes Bay." (SS). S. & E.		Pacific Whaling Co.
KLE	Rose Inlet, Alaska. S. & E.		Pt. Vtia, Aaa. 50. (C). Oceanic
WDEM	S. S. "Wm. T. Muir." (SS). S. & E.	2636 *	Fisheries Co.
WFFR	S. S. "Frances E." (SS). S. & E.	2640	American Airlines
WIDL	S. S. "Leonine." (SS). S. & E.		Yosemite Nat'l. Park, Calif. (F)
WIDM	S. S. "Sally S." (SS). S. & E.		Braniff Airlines
WIDN	S. S. "Virginia E." (SS). S. & E.	2644 *	North West Airlines
WNFM	S. S. "Alco." (SS). S. & E.	2670	Santa Cruz Isl., Calif. (LH)
2520 KNJB	Yellowstone Nat'l. Park, Wyo. (F).		NMC
			San Francisco, Calif. (Pt. Bonita)
			200. (CG)
KNKP	Rocky Mountain Nat'l. Park, Colo. (F)		NMD
			Cleveland, Ohio. 200. (CG)
2522 KOW	Edmonds, Wash. (SS). Pacific Telephone & Telegraph Co.		NMF
			Winnhop, Mass. (CG)
			NMG
WOO	Ocean Gate, N. J. (SS). Am. Tele. & Teleg. Co., Long Lines Dept.		NMH
			Washington, D. C. (Fort Hunt, Va.). 200. (CG).
			NMN
			Princess Anne, Va. (Virginia Beach). 200. (CG)
2538 KALG	Squaw Harbor, Alaska. (C).		NMP
KALI	Lazy Bay, Aaa. (C)		Wilmette, Ill. 200. (CG)
KALJ	King Cove, Aaa. (C)		NMV
KDK	Wrangell, Aaa. (C) A. R. Brueger		Jacksonville Beach, Fla. 200. (CG)
			NMW
KILD	Cordova, Aaa. Pioneer Seas Foods Co.		Westport, Wash. (Grays Harbor). 200. (CG)
			NMY
WOMW	Motorship "Minniehaha."		Rockaway Beach, N. Y. (Rockaway Point). 200. (CG)
WOMX	M/S "Empress"		NNO
WOMY	M/S "Glenwood"		Honolulu, Hawaii. 200. (CG)
WOPF	M/S "Admiralty"		NOB
2550 WMI	Lorain, Ohio. (SS).		NOF
2566 KFF	Union Bay, Alaska. (C). Nakat Packing Corp.		NOG
			NOJ
			San Pedro, Calif. (Point Vicente). 200. (CG)
			NOL
			Fort Lauderdale, Fla. 200. (CG)
			NOM
			Miami, Fla. 200. (CG)
			NOP
			New York, N. Y. (Floyd Bennett Field). 200. (CG)
KGFK	Motorship "A & P Nakeen." (SS). N.P.C.		NOQ
			New Orleans, La. 200. (CG)
KHV	Nakeen, Aaa. (C). N.P.C.		NOR
KLA	Waterfall, Aaa. (C). N.P.C.		San Diego, Calif. 200. (CG)
KLD	Hidden Inlet, Aaa. (C). N.P.C.		NOS
KOU	Wilmington, Calif. (SS). Southern Calif. Tele. & Teleg. Co.		Salem, Mass. (CG)
			NOU
			New London, Conn. (CG)
2600 KNIA	Glacier Nat'l. Park, Mont. (F).		NOV
2604 WVD	Seattle, Wash. 500. (C). Alaskan Telephone Co., 517 Federal Office Bldg.		NOY
			Port Angeles, Wash. 200. (CG)
			NOX
			Biloxi, Miss. 200. (CG)
			NOY
			Galveston, Tex. 200. (CG)
			NRGA
			U. S. C. G. "Aurora."
			NRGP
			U. S. C. G. "Perseus."
			NRUD
			U. S. C. G. "Tahoe"
			NRXV
			U. S. C. G. "CG254"
			NRYA
			U. S. C. G. "CG259"
			NRVB
			U. S. C. G. "CG260"
			WWAK
			Anacapa Isl., Calif. (LH)
2608 *	Ketchikan, Aaa. (C). Southern Airlines	2676	Coast Guard Stations, Atlantic Coast
2612 *	American Airlines		Coast Guard Stations, Great Lakes
2616 KAEB	Hydaburg, Alaska. 40. (C). Territory of Alaska		Coast Guard Stations, Great Lakes
			Coast Guard Stations, Great Lakes
KAED	Angoon, Aaa. 40. (C). T of A.	2688	Coast Guard Stations, Great Lakes
KAEF	Jack Wade, Aaa. 40. (C). T of A.		Coast Guard Stations, Great Lakes
KAEH	Kake, Aaa. (C).	2692	Coast Guard Stations, Great Lakes
KAEP	Tenakee, Aaa. (C).		Coast Guard Stations, Great Lakes
KAEW	Umnak, Aaa. (C).	2698	Coast Guard Stations, Great Lakes
KAJJ	Atka, Aaa. (C).		Coast Guard Stations, Great Lakes
KAKJ	Akutan, Aaa. (C).		Coast Guard Stations, Great Lakes
KAMY	Port Oceanic, Aaa. 50. (C). Oceanic Fisheries Co.		Coast Guard Stations, Great Lakes
			2698 ECBO
			Tillamook Rock, Ore. (LH)
			NMC
			San Francisco, Calif. (Pt. Bonita) (CG)
KAQF	Unalaska, Aaa. (C)		NMW
.....	Teller, Aaa. 50. Teller Commercial Co.		Westport, Wash. (Grays Harbor) (CG)
2630 KYZA	El Paso, Tex. Immigration Border Patrol.		NOJ
			San Pedro, Calif. (Pt. Vicente). (CG)
2632 KAMY	Port Oceanic, Aaa. 50. (C). Oceanic Fisheries Co.	2720 *	Trans-Continental and Western Air
KANA	Pt. Williams, Aaa. 50. (C). Washington Fish & Oyster Co.	2726	KATA
			Grass Valley, Calif. 50. (Em).
KAQI	Ouzinkle, Aaa. 50. (C). O. L. Grimes		KATB
			Idaho Maryland Mines Corp. Forbestown, Calif. 50. (Em).
KIJW	Shearwater Bay, Aaa. 50. (C). Kodiak Fisheries Co.		I.M.M. CO.
			Norden, Calif. 50. (Em). Southern Pacific Co.
KIJX	Kodiak Isl., Aaa. (C). K.F.C.		KAWK
KIMA	Pt. Hobron, Aaa. (C). American Pacific Whaling Co.		Emigrant Gap, Calif. 50. (Em). J.P.C.
KIOC	Pt. Wakefield, Aaa. 10. (C). Apex Fish Co.		KIIW
			Los Angeles, Calif. 175. (Em).
KIOD	Nellie Juan, Aaa. 50. (C). Copper River Packing Co.		KIIV
			L. A. County, 205 S. Broadway
			Los Angeles, Calif. 400. (Em).
			KIIV
			L. A. County
			KINT
			Los Angeles, Calif. (Portable)

KNAA	Forbestown, Calif. (Em)			10 kw. (B), s/o: "End of a Perfect Day."
KNAB	Grass Valley, Calif. (Em)			
WAGE	Portable, 500. (Em). Lakeside Radio Club.	3062	*	Trans-Western Airlines
WAJN	Port. in Fla. 100. (Em). State of Fla.	3072	*	Trans-Western Airlines
WAJU	Guayama, Puerto Rico. 30. (Em). P. R. Government	3082	*	Pacific Alaska Airways
WAJV	Mayaguez, P. R. 40. (Em). P. R. G.	3088	*	Pan American Airways
WANB	Dismore, Fla. 100. (Em). State.	3093	KAJO	Trans-Western Airlines
WELT	Portable 50. (Em). Edward L. Thompson		KALG	Warren, Alaska. (C). Pacific American Fisheries
WQPX	Port. in Ill. 500. (Em). State, Dept. of Pub. Works & Bldgs.		KALH	Squaw Harbor, Aaa. (C). P. A. F.
WQPY	Port. in Ill. (Em). State Police		KALI	Pt. Moller, Aaa. 100. (C). P. A. F.
	<i>Beasmont, Tex. 50. (Em).</i>		KALJ	Lazy Bay, Aaa. 100. (C). P. A. F.
	Ponce, Puerto Rico. 100. (Em). Government		KAMG	King Cove, Aaa. (C). P. A. F.
2732	*		KANR	Stuyshok, Aaa. 20. (C). Vance Hitt
2748	*		KAQL	Kalskag, Aaa. 20. (C). Fred H. Whitcheer
2854	*		KIAY	Mountain Village, Aaa. 25. (C). Norval D. Sheppard
	Southern Airlines		KIIP	Ketchikan, Aaa. 100. (C). Skinner & Eddy Corp.
2870	*			Craigie Creek, Aaa. 30. (C). W. E. Dunkle
2906	*			<i>Hooper Bay, Aaa. 25. (C). John P. Foz.</i>
2912	KAJH	3095	KBAE	Seward, Alaska. (F).
	Anchorage, Alaska. 20. (C). Libby, McNeill & Libby		KBAF	Seward, Aaa. (F).
KAMP	Craig, Aaa. 100. (C). L.M.L.		KBAG	Seward, Aaa. (F).
KAMS	Taku, Aaa. 100. (C). L.M.L.		KBAH	Seward, Aaa. (F).
KAMT	Kenai, Aaa. 50. L.M.L.		KBCM	Salmon, Idaho. (F).
KANA	Pt. Williams, Aaa. 50. (C). Washington Fish & Oyster Co.		KBCN	Salmon, Idaho. (F).
KANM	Burnett Inlet, Aaa. 10. (C). Burnett Inlet Salmon Co.		KBDD	Elko, Nev. (F).
KASJ	Kantishna, Aaa. 20. (C). Morris P. Kirk & Son.	3125	KBDE	Elko, Nev. (F).
KNCE	Eku, Aaa. 100. (C). L.M.L.	3128	WWLL	Duluth, Minn. (F).
KNCF	Egegik, Aaa. 100. L.M.L.	3148	WWLM	Escanaba, Mich. (F).
KNCB	Keglung, Aaa. 70. (C). L.M.L.	3155	GBTT	R.M.S. "Queen Mary." (88). Works WOO.
	Braniff Airlines			American Airlines
2922	*			United Airlines
	Pacific Alaska Airways		KBAL	Seattle, Wash. 100. (F)
	Southern Airlines		KBAP	Seattle, Wash. (F)
2930	*		KBAW	Porterville, Calif. (F)
2946	*		KBBL	Sandpoint, Idaho. (F)
	Pacific Alaska Airways		KBBM	Sandpoint, Idaho. (F)
	Southern Airlines		KBBN	Sandpoint, Idaho. (F)
2952	KBDK		KBBR	Sandpoint, Idaho. (F)
2986	KAMX		KBBW	Libby, Mont. (F)
	Oakland, Calif. (F). Supply Dept. Utopia Creek, Alaska. 40. (C). L. McGee		KBCJ	Oakland, Calif. (F)
KAMY	Pt. Oceanie, Aaa. 50. (C). Oceanic Fisheries Co.		KBCY	Deadwood, S. Dak. (F)
KGQ	Todd, Aaa. 50. Peril Straits Packing Co.		KBCW	Libby, Mont. (F)
	Aeronautical	3158	WWKZ	Libby, Mont. (F)
	<i>Folger, Aaa. 40. Odin Strandberg.</i>	3163	WWLS	Rhineander, Wis. (F)
2994	KALF	3183	YDE4	Holly Bluff, Miss. (F)
	Livengood, Alaska. 30. (C). Clifton W. Hudson	3190	KADN	Sourabaya, Java, N.E.I.
KALZ	North Grub Creek, Aaa. 25. (C). E. C. Kraiger			United Airlines
KANK	Pt. Baker, Aaa. 10. (C). A. R. Brueger		KADP	Baldy Mesa, Calif. 50. (Em). Los Angeles Water Dept.
KANM	Burnett Inlet, Aaa. 10. (C). Burnett Inlet Salmon Co.		KAJH	Clark Mts., Calif. 50. (Em). L.A.W.D.
KANQ	Caribou Creek, Aaa. 20. (C). Lester B. Walbridge		KAMP	Anchorage, Alaska. 20. (C). Libby, McNeill & Libby
KAQM	Bethel, Aaa. 3½. (C). Soc. of the United Brethren for Propagating the Gospel Among the Heathen.		KAMS	Craig, Aaa. 100. (C). L.M.L.
KASI	Alatna, Aaa. 20. (C). Sam Dubin		KAMT	Taku, Aaa. 100. (C). L.M.L.
KASK	Hughes, Aaa. 40. (C). Linous McGee		KAMV	Kenai, Aaa. 50. (C). L.M.L.
KILY	Excursion Inlet, Aaa. 50. (C). Astoria & Puget Sound Canning Co.		KANC	V. No. 1, Alaska. 4. (C). L.M.L.
			KNCC	Scow No. 5, Aaa. 4. (C). L.M.L.
	North West Airlines		KNCD	Nushagak, Aaa. 4. (C). L.M.L.
	<i>Pt. Vta, Aaa. 50. (C). Oceanic Fisheries Co.</i>		KNCE	Lookanok, Aaa. 4. (C). L.M.L.
2998	WXE		KNCF	Eku, Aaa. 100. (C). L.M.L.
3002	*	3195	KNGS	Egegik, Aaa. 100. (C). L.M.L.
3040	YDA		KBBV	Keglung, Aaa. 70. (C). L.M.L.
	Tandjong Priok, Java, N.E.I.		KBBX	Spokane, Wash. (F)
			KBCX	Missoula, Mont. (F)
			KBDG	Missoula, Mont. (F)
			KBDH	Spokane, Wash. (F)
			KBDI	Spokane, Wash. (F)
			KBDO	Republc, Wash. (F)
			WWKA	Alturas, Calif. (F)
			WWKB	Bartlett, N. H. (F)
			WWKC	Laconia, N. H. (F)
				Gorham, N. H. (F)

WWKD	Conway, N. H. (F)		
WWKE	Campton, N. H. (F)	3385	KBAA Portland, Ore. (F)
WWKF	Athens, Tenn. (F)		KHAB Portland, Ore. (F)
WWKG	Tellico Plains, Tenn. (F)		KRAC Portland, Ore. (F)
WWKH	Talladega, Ala. (F)		KRAD Portland, Ore. (F)
WWKI	Littletown, N. H. (F)		KBAJ Oakland, Calif. (F)
WWKJ	Weston, Vt. (F)		KBAK Yreka, Calif. (F)
WWKS	Duluth, Minn. (F)		KBAS Portland, Ore. (F)
WWKU	Etowah, Tenn. (F)		KBBG Hamilton, Mont. (F)
WWKX	St. Louis, Mo. (F)		KBBO KailsPELL, Mont. (F)
WWLK	Duluth, Minn. (F)		KBBP KailsPELL, Mont. (F)
WWLN	Duluth, Minn. (F)		KBBQ Missoula, Mont. (F)
WWLQ	Rutland, Vt. (F)		KBCA Ft. McArthur, Calif. (F)
WWLR	Rutland, Vt. (F)		KBCB Santa Barbara, Calif. (F)
WWLT	Ocoee, Tenn. (F)		KBCG Yreka, Calif. (F)
WWLU	Bristol, Tenn. (F)		KBCH Oakland, Calif. (F)
3222	*		KBCI Santa Barbara, Calif. (F)
*	American Airlines		KBCV KailsPELL, Mont. (F)
*	United Airlines		KBCZ Hamilton, Mont. (F)
3232	*		KBDJ Portland, Ore. (F)
*	American Airlines		KBDQ Logan, Utah. (F)
3235	KBAT Olympia, Wash. (F)		KBDU Powers, Ore. (F)
	KBAU Olympia, Wash. (F)		
	KBCK Challis, Idaho. (F)	3387	KGYA Longmire, Wash. (F)
	KBCL Challis, Idaho. (F)		KGYB Longmire, Wash. (F)
	KBCP Boise, Idaho. (F)		KGYC Padme, Wash. (F)
	KBCQ Boise, Idaho. (F)		KGYD Sunrise, Wash. (F)
	KBCS Halley, Idaho. (F)		KGYE White River Entrance, Wash. (F)
	KBDF Boise, Idaho. (F)		KGYF Carbon River, Wash. (F)
	KBDDL Oakland, Calif. (F)		KGYG Portabie lu Wash. (F)
3243	*		3397 KBDW Mt. Shasta, Calif. (F)
3258	*		KBDX Missoula, Mont. (F)
3265	EAKR Candle, Alaska. 30. (C). Candle		KBDY Portland, Ore. (F)
	Community Radio Assn.		KBDZ Seattle, Wash. (F)
	KALY Egavik, Aaa. 25. (C). R. B.	3410	KNKG Ash Mt., Sequoia Nat'l. Park,
			Calif. (F)
	KBBE Grangeville, Idaho. (F)		KNLP Death Valley, Calif. (F)
	KBBF Orofino, Idaho. (F)		WPB Portland, Maine. (LH)
	KBBH Orofino, Idaho. (F)		WRJ Poe Reef, Mich. (LH)
	KBBI Pierce, Idaho. (F)		WSEO Gatlinburg, Tenn. Gt. Smokey
	KBBJ Orofino, Idaho. (F)		Mt. Nat'l. Park
	KBBK Orofino, Idaho. (F)		WST Dry Tortugas, Fla. (LH)
	KBBU Grangeville, Idaho. (F)		WWAJ Maultou Isl., Mich. (LH)
	KBCU Grangeville, Idaho. (F)		WWAL Passage Isl., Mich. (LH)
	KBDP Descanso, Calif. (F)		WWAM Rock of Ages, Mich. (LH)
	KBDT Cascade Locks, Ore. (F)		WWG Cheboygan, Mich. (LH)
	KILQ Skowl Arm, Aaa. 100. (C).		WWZ Key West, Fla. (LH)
3295	KBAA St. Maries, Idaho. (F)	3445	KBAM Grants Pass, Ore. (F)
	KBBB Ashland, Mont. (F)		KBAO Grants Pass, Ore. (F)
	KBBC Kingston, Idaho. (F)		KBAQ Okanogan, Wash. (F)
	KBBD St. Maries, Idaho (F)		KBAR Globe, Ariz. (F)
	KBBS Billings, Mont. (F)		KBAV Quincy, Calif. (F)
	KBBT Ashland, Mont. (F)		KBCD Northfork, Calif. (F)
	KBBY Coeur d'Alene, Idaho. (F)		KBCE Northfork, Calif. (F)
	KBBZ Calder, Idaho. (F)		KBCF Northfork, Calif. (F)
	KBCC Mt. Shasta, Calif. (F)		KBCR Emmett, Idaho. (F)
	KBDA Ely, Nev. (F)		KBDM Okanogan, Wash. (F)
	KBDB Ely, Nev. (F)		KBDN Winthrop, Wash. (F)
	WWKV Cass Lake, Minn. (F)		WWKK Escanaba, Mich. (F)
	WWKW Cass Lake, Minn. (F)		WWKL Portabie lu Mich. (F)
	WWLJ Ironwood, Mich. (F)		WWKM Mio, Mich. (F)
	WWLO Audlusia, Ala. (F)		WWKN Baraga, Mich. (F)
	WWLP Andalusia, Ala. (F)		WWKO Newberry, Mich. (F)
	WWLW Rio Piedras, Puerto Rico. (F)		WWKP Roscommon, Mich. (F)
	WWLX Rio Piedras, Puerto Rico. (F)		WWKQ Traverse City, Mich. (F)
	WWLY Rio Piedras, Puerto Rico. (F)		WWKR Marquette, Mich. (F)
	WWLZ Rio Piedras, Puerto Rico. (F)		WWKT Putney, Ky. (F)
345	KBAN Kenmerer, Wyo. (F)	3448	*
	KBAX Weaverville, Calif. (F)	3458	*
	KBCO McCall, Idaho. (F)	3468	*
	KBDC Ogden, Utah. (F)	3500	American Airlines
	KBDR Salt Lake City, Utah. (F)	to	American Airlines
	KBDS Salt Lake City, U. (F)	4000	American Airlines

AMATEURS

The shortwave list will be concluded in the April issue of this magazine. The second part of this list includes all the broadcasters, showing their assigned frequencies as well as actual frequencies used, in addition to all the data available on schedules, addresses, power, etc.

# WHAT'S ON THE AIR TONIGHT

Fill in the calls and frequencies of the stations through which you best receive the network programs. You can then turn quickly to the one that has the feature you want.

Network	Stations
Canadian (CBC)	
Columbia (C)	
Mutual (M)	
National Red (R)	
National Blue (B)	

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

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

## MONDAY

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

**C — Boake Carter**  
 KDAL KFAB KFH KGKO KGLO  
 KLRA KNBC KMOX KNOW KOMA  
 KRDL KRNT KSCJ KTRH KTSB  
 KTUL KWKH WABC WACO WADC  
 WAPI WBBM WBIG WBNS WBT  
 WCAO WCAU WCCO WCHS WDAE  
 WDBJ WDBO WDOD WDRC WEEI  
 WEOA WFAM WFBL WFBM WGAR  
 WGST WHAS WHEC WHIO WHP  
 WIBW WISN WJAX WJR WKBB  
 WJSV WKBB WKBN WKBW WKRC  
 WLAC WMBD WMBR WNAX  
 WNOX WOC WOKO WORC WPRO  
 WQAM WREC WRVA WTAQ WWL  
 WWVA

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

**B — Lowell Thomas**  
 CRCT KDKA WBAL WBZ WBZA  
 WFLA WIOD WJAX WJZ WLW  
 WMAL WOOD WRVA WSYR WTAM  
 WXYZ

**C — Lum and Abner**

KFAB KNBC KMOX KNOW KOMA  
 KRDL KRNT KTRH KTSB KTUL  
 WABC WBBM WBNS WBT WCAO  
 WCAU WCOA WDAE WDBJ WDRC  
 WEEI WFBL WFBM WGAR WGST  
 WHAS WHEC WHIO WJR WJSV  
 WKBW WKRC WLAC WMBR WOKO  
 WPRO WQAM WREC WRVA

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

**C — Poetic Melodies; Jack Fulton**  
 WABC WADC WBT WCAO WCAU  
 WDRC WEAN WEEI WFBL WGR  
 WHCC WHK WJAS WJR WJSV  
 WKRC WOKO WSPD WTOC WWVA

**R — Amos 'n' Andy**

KSD KSTP KYW WBNB WCAE  
 WCSH WEAF WFBR WGY WHO  
 WJAR WLW WJAX WRC WTAG  
 WTAM WTIC WWJ

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

**R — Uncle Ezra's Radio Station**  
 KARK KFYP KGBX KGNC KPBC  
 KSTP KTSB KTHS KVOO KYW  
 WBAF WBNB WCAE WCKY WOOL  
 WCSH WDAF WDAY WEAF WEBC  
 WFAA WFBM WGBF WGY WHO  
 WIBA WIRE WJAR WKY WMAQ  
 WNAC WOAI WOOD WOV WRC  
 WTAG WTAM WTIC WTMJ

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

**C — Eddie Cantor**  
 Station list not yet available  
**M — The Lone Ranger**  
 WFIL WBNF WSYR WOR WXYZ

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

**R — Burns and Allen**  
 CRCT KYW WBNB WCAE WCSC  
 WCSH WEAF WFBR WFLA WGY  
 WHO WIOD WIRE WIS WJAR  
 WJAX WLW WMAQ WNAC WPTF  
 WRCA WRVA WSOB WTAG WTAM  
 WTAR WTIC WWJ

**B — Melody Puzzles; Harry Salter**

KANS KDKA KECA KERN KFBR  
 KFDK KFEL KFSD KGA KGHF  
 KGHL KGIR KGO KGW KIDO  
 KJR KLO KMJ KOB KOIL KRIV  
 KRIS KSO KTRH KTMS KTRM  
 KWG KWK KXYZ WABY WAGA  
 WBAL WBOW WBRE WBY WBZA  
 WCKY WCOL WDSU WEAN WEBR  
 WFEA WFIL WGL WHAM WHK  
 WICC WJBO WJTN WJZ WLEU  
 WLS WMAL WMPB WMT WORL  
 WREN WRDL WRFD WSNB WSGN  
 WSPD WSYR WXYZ

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

**C — Pick and Pat**  
 KFAB KMBG WABC WADC WBBM  
 WBT WCAO WCAU WDRC WEAN  
 WFBL WGR WGST WHEC WHK  
 WHIP WICC WJAS WJR WJSV  
 WKRC WLBZ WMAE WNAC WOKO  
 WORC WSPD

**R — Voice of Firestone**

CFCE CRCT KFYP KPRC KSD  
 KFTP KTBS KVOO KYW WAVE  
 WBNB WCAE WCSC WDSH WDAF  
 WDAY WEAF WEBC WEHI WFAA  
 WFBC WFBM WFLA WGY WHO  
 WIBA WIOD WIRE WIS WJAR  
 WJAX WJDX WKY WMAQ WMC  
 WOAI WOV WPTF WRCA WRVA  
 WBB WSM WSMB WSOB WTAG  
 WTAM WTAR WTIC WTMJ WWJ  
 WWNC

**B — Campana's Grand Hotel**

KDKA KFEL KFI KFSD KGA KGO  
 KGW KJR KLO KOIL KSO KWK  
 WBAL WBZ WBZA WCKY WEAN  
 WEBR WFIL WHAM WHK WICC  
 WJZ WLS WMAL WMT WOWO  
 WREN WSPD WSYR WXYZ

E-8:45 p.m., C-7:45, M-6:45, P-5:45

**C — Boake Carter**  
 KFPY KGAR KIRO KILZ KNX  
 KOIN KOY KSFO KSL KVI KVOR

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

**B — Philadelphia Symphony**  
 KFEL KGO KSO KVOD KWK  
 KXYZ WBAL WBZ WBZA WEAN  
 WEBR WENR WFIL WHAM WJTN  
 WJZ WLS WMAL WREN WRFD  
 WSPD WSYR WTCN WXYZ

**C — Lux Radio Theater**

CFRB CKAC KFAB KFH KFPY  
 KLRA KLZ KMBC KMOX KNOW  
 KNX KOH KOIN KOL KOMA  
 KRDL KRNT KSFO KSL KTRH  
 KTSB KTUL KVI WABC WADC  
 WBBM WBNS WBRC WBT WCAO  
 WCOO WDAE WDBJ WDRC WEEI  
 WFBL WFBM WGAR WGST WHAS  
 WHEC WHIO WBX WISN WJAS  
 WJR WJSV WKBW WKRC WLAC  
 WMAE WMBD WNAX WOKO WORC  
 WPRO WQAM WREC WRVA WWL  
 Also on Canadian Network

**R — Fibber McGee and Molly**

KFYP KPRC KSD KSTP KTBS  
 KVOO KYW WAVE WBNB WCAE  
 WCOL WCSH WDAF WDAY WEAF  
 WEBC WFAA WFBM WFLA WGY  
 WHO WIBA WIOD WIRE WIS  
 WJAR WJAX WJDX WLW WMAQ  
 WMC WNAC WOAI WOOD WOV  
 WPTF WRC WSB WSM WSMB  
 WSOB WSNB WTAG WTAM WTAR  
 WTIC WTMJ WWJ WWNC

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

**R — Phil Spitalny's Girl Orchestra**  
 CFCE CRCT KDYL KFI KGH  
 KGIR KGO KGW KHQ KOA KOMO  
 KPRC KSD KSTP KVOO KYW  
 WAVE WBNB WCAE WCSH WDAF  
 WEAF WFAA WFBM WFLA WGY  
 WHO WIBA WIOD WIRE WIS  
 WJAR WJAX WKY WLW WMAQ  
 WMC WNAC WOAI WOV WPTF  
 WRC WRVA WSB WSM WSMB  
 WTAG WTAM WTAR WTIC WTMJ  
 WWJ

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

**R — Contented Program**  
 CFCE CRCT KDYL KFI KGW KHQ  
 KOA KOMO KPO KPRC KSD KYW  
 WBNB WCAE WCSH WDAF WEAF  
 WEEI WFBM WFLA WGY WHO  
 WIOD WIS WJAR WJAX WKY  
 WMAQ WMC WOAI WOV WPTF  
 WRC WRVA WSB WSM WTAG  
 WTAM WTAR WTIC WWJ WWNC  
 Also on Canadian Network

**B — Warden Lewis E. Lawes**  
 KDKA KECA KFSD KGA KGO



## MONDAY (Continued)

KJR KLO KOIL KSO KVOD KWK  
WBAL WBZ WBZA WCKY WEAN  
WBRN WENR WFIL WHAM WHK  
WICC WJZ WMAL WMT WOWO  
WREN WSPD WSYR WTCN WXYZ

**C — Wayne King and Orchestra**  
KDB KERN KFAB KFBK KFPY  
KFRG KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KRNT KSL KYI  
KWG WAAB WABC WADC WBBM  
WBNS WBT WCAO WCAU WCCO  
WDRG WEAN WFBL WFBM WHAS  
WHK WIBW WJAS WJR WJSV  
WKBW WKRC WOKO WSPD WWL

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**C — Brave New World**  
Available to entire network

**R — Burns and Allen**  
KARK KDYL KFBK KFI KFYY  
KFBX KGHL KGIR KGNC KGO  
KFGV KHQ KMJ KOA KOMO KPO  
KPRC KSD KSTP KTAR KTBS  
KVOO KWG WAVE WDAF WDAY  
WBCB WFAA WJAS WJDX WKY  
WMC WOAI WOV WSB WSMB  
WTMJ

**M — The Lone Ranger**  
KDB KDON KFRG KFXM KGB  
KQDM KHJ KPNC KVOE KXO  
Available also to West Coast Section

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C — Poetic Melodies: Jack Fulton**  
KERN KFAB KFBK KFPY KFRG  
KGB KHJ KLRA KLZ KMBC KMOX  
KOIN KOL KOMA KRLD KRNT  
KSL KTRH KTSa KVI WBBM  
WBRC WCCO WFBM WGST WLAC  
WREC WWL

**R — Amos 'n' Andy**  
KDYL KERN KFBK KFI KGW  
KHQ KMJ KOA KOMO KPO KPRC  
KSD KWG WDAF WFAA WHO  
WIRE WKY WMAQ WMC WOAI  
WOW WSB WSM WSMB

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Pick and Pat**  
KFPY KGKO KLRA KLZ KMOX  
KNX KOIN KOL KOMA KRLD  
KRNT KSCJ KSFO KSL KTUL  
KVI KWKH WACO WBRG WCCO  
WFBM WHAS WLAC WREC

## TUESDAY

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**C — Boake Carter, see Monday**

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

**E-7:00 p.m., C-6:00, M-5:00, P-4:00**  
**C — Poetic Melodies, see Monday**  
**R — Amos 'n' Andy, see Monday**  
**B — Easy Aces**

KDKA KDYL KFI KGW KHQ KOA  
KOIL KOMO KPO KSK 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 — Geo. McCall, Hollywood Talk**  
KFAB KFH KLRA KMOX KNOW  
KOMA KRLD KRNT KTRH KTSa  
KWKH WABC WADC WBBM WBNS  
WBZ WCAO WCAU WCCO WCHS  
WDAE WDHO WDOO WDRG WEEL  
WFBL WGAR WGBI WGST WHAS  
WHEC WHIO WIBW WISN WJAS

WJR WJSV WKRC WLAC WMAS  
WMBR WOC WOKO WORC WPRO  
WQAM WREC WRVA WWL

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**C — Helen Menken, Drama**  
KFAB KFPY KIRO KLZ KMBC  
KMOX KNX KOIN KRNT KSFO  
KSL KVI WABC WBBM WCAO  
WCAU WDRG WEEI WFBL WGAR  
WGR WHAS WHEC WHIO WJAS  
WJR WJSV WKRC WOKO WORC  
WPRO

**B — Dorothy Thompson; News**  
WBAL WBZ WBZA WENR WHAM  
WJZ WSYR

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**R — Johnny with Russ Morgan**  
KFYR KPRC KSD KSTP KTBS  
KTHS KVOO KYW WAVE WBAP  
WBEN WCAE WCHS WDAF WDAY  
WEAF WEEB WFBM WFLA WGY  
WHIO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WNAC WOW WPTF WRC  
WRVA WSB WSM WSMB WSOC  
WSUN WTAG WTAM WTAR WTCI  
WTMJ WWJ WUNC

**C — Edward Robinson; Claire Trevor**  
CBM CFRB KFAB KFH KFPY  
KIRO KLRA KLZ KMBC KMOX  
KNOW KNX KOIN KOMA KRLD  
KRNT KSFO KSL KTRH KTSa  
KTUL KVI WABC WADC WBBM  
WBNS WBRG WBT WCAO WCAU  
WCCO WDAE WDBJ WDRG WEEI  
WFBL WFBM WGAR WGR WGST  
WHAS WHEC WHIO WIBX WISN  
WJAS WJR WJSV WKRC WLAC  
WMAS WMBD WNAX WOKO WORC  
WPRO WQAM WREC WRVA WWL  
Also on Canadian Network

**B — Those We Love**  
KDKA KFEL KFI KFSD KGA KGO  
KJR KLO KOIL KSO KWK WAB  
WBAL WBZ WBZA WCKY WEAN  
WBRN WFIL WHAM WHK WICC  
WJZ WLS WMAL WMT WREN  
WSPD WSYR WXYZ

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — Al Jolson; Parkyakarkus**  
CFRB CRMC KFAB KFH KLRA  
KMBC KMOX KNOW KOMA KRLD  
KRNT KTRH KTSa KTUL WABC  
WADC WBBM WBNS WBRG WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDRG WEEI WFBL WFBM WGAR  
WGR WGST WHAS WHEC WHIO  
WIBX WISN WJAS WJR WJSV  
WKRC WLAC WMAS WMBD WNAX  
WOKO WORC WPRO WQAM WREC  
WRVA WWL  
Also on Canadian Network

**R — Wayne King and Orchestra**  
KFYR KPRC KSD KSTP KTBS  
KVOO KYW WAVE WBAP WBEN  
WCAE WCKY WCHS WDAF WDAY  
WEAF WEEB WEEI WFBM WGY  
WHIO WHIO WIBA WIRE WJAR  
WJDX WKY WMAQ WMC WOAI  
WOW WRC WSB WSM WSMB  
WTAG WTAM WTCI WTMJ WWJ

**B — Edgar Guest, It Can Be Done**  
KDKA KOIL KSO KWK WBAL  
WBZ WBZA WFIL WGAR WHAM  
WJZ WLS WLW WMAL WMT  
WREN WSYR WXYZ

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**C — Boake Carter, see Monday**

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**C — Al Pearce and Gang**  
CFRB CKAC KFAB KFH KGKO  
KLRA KMBC KMOX KOMA KRLD  
KRNT KSCJ KTRH KTSa KTUL  
KWKH WABC WACO WADC WALA  
WBBM WBIG WBNS WBRG WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDNC WDOO WDRG WEAN  
WFBL WFBM WFEA WGST WHAS  
WHEC WHK WHP WIBW WIBX  
WICC WISN WJAS WJR WJSV  
WKBH WKBN WEBW WERC  
WLAC WLZB WMAS WMBD WMBG  
WMBR WMMN WNAC WNAX  
WNBW WNOX WOC WOKO WORC  
WOWO WPG WQAM WREC WSBT  
WSFA WSJS WSPD WTCO WWL

**R — Vox Pop; Sidewalk Interviews**  
KSD KYW WBEN WCAE WCKY  
WCHS WDAF WEAF WEEI WFBM  
WGY WHO WIRE WJAR WMAQ  
WOW WRC WTAG WTAM WTCI  
WWJ

**B — Horace Heidt Orchestra**  
KANS KDKA KFI KFSD KGA KGO  
KGW KJR KLO KOIL KPRC KSO  
KTHS KVOD KWK WAVE WBAL  
WBAP WBZ WBZA WEAN WBRN  
WFIL WFLA WHAM WHK WICC  
WIOD WIS WJAX WJZ WKY WLS  
WLW WMAL WMC WMT WOAI  
WPTF WREN WSB WSM WSMB  
WSOC WSPD WSUN WSYR WTAR  
WTCN WXYZ

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**R — To be announced**

CFPC CRCT KDYL KFI KGHL  
KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTAR KTBS KVOO  
KYW WAVE WBAP WBEN WCAE  
WCOL WCSB WCHS WDAF WDEL  
WEAF WEEB WFBM WFLA WGY  
WHIO WIBA WIOD WIRE WIS  
WJAR WJAX WKY WMAQ WMBG  
WMC WNAC WOAI WOOD WOW  
WRC WSB WSM WSMB WSOC  
WTAG WTAM WTAR WTCI WTMJ  
WWJ

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C — Benny Goodman's Orchestra**  
KFAB KFH KFPY KGKO KIRO  
KLRA KLZ KMBC KMOX KNOW  
KNX KOIN KOMA KOY KRLD  
KRNT KSCJ KSFO KSL KTRH  
KTSa KTUL KVI KVOR KWKH  
WABC WACO WADC WALA WBBM  
WBIG WBNS WBRG WBT WCAO  
WCAU WCCO WCHS WDAE WDBJ  
WDBO WDNC WDOO WDRG WEEI  
WFBL WFBM WGAR WGST WHAS  
WHEC WHIO WHP WIBW WIBX  
WISN WJAS WJR WJSV WKBH  
WKBN WKBW WKRC WLAC WLZB  
WMAS WMBD WMBR WNAX  
WNBW WNOX WOC WOKO WORC  
WPG WPRO WQAM WREC WRVA  
WSBT WSFA WSJS WTCO WWL

**M — Eddie Duchin Orchestra**  
CKLW KALE KDB KDON KELA  
KFRG KFXM KGA KGB KGY KHJ  
KIEM KIT KMO KOL KORE KPNC  
KPQ KQW KRNR KSLM KVOE  
KVOS KXO KXRO WGN WIP WLW  
WNAC WOL WOR WRR

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**R — Jimmy Fidler Hollywood Gossip**  
KDYL KFI KGW KHQ KOA KOMO  
KPO KSD KTAR KYW WBEN  
WCAE WCHS WDAF WEAF WFBM

## TUESDAY (Continued)

WGY WHO WJAR WLW WMAQ  
WNAC WOOD WOW WRC WTAG  
WTAM WTIC WWJ

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**R — Dale Carnegie; Winning Friends**  
KDYL KFI KGW KHQ KOA KOMO  
KPO KSD KSTP KYW WBEN WCAE  
WCSH WDAF WDEL WFAF WFBR  
WGY WHO WIRE WJAR WLW  
WMAQ WNAC WOW WRC WTAG  
WTAM WTIC WWJ

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

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C — Geo. McCall, Hollywood Talk**  
KFPY KIRO KLZ KMBC KNX  
KOIN KSFO KSL KVI

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Al Jolson; Parkyakarkus**  
KFPY KLZ KNX KOIN KOL KSFO  
KSL KVI  
Also on Canadian Network

**E-Midn't; C-11:00, M-10:00, P-9:00**  
**C — Al Pearce and Gang**  
KFBK KFPY KGVO KLZ KNX  
KOH KOIN KOL KOY KSFO KSL  
KVI KVOR

## WEDNESDAY

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**C — Boake Carter, see Monday**

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**B — Lowell Thomas, See Monday**  
**C — Lum and Abner, see Monday**

**E-7:00 p.m., C-6:00, M-5:00, P-4:00**  
**C — Poetic Melodies, See Monday**  
**R — Amos 'n' Andy, See Monday**  
**B — Easy Aces, See Tuesday**

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C — Hobby Lobby**  
KMBC WABC WADC WBIG WBNS  
WBT WCAO WCAU WCHS WDAE  
WDBJ WDBO WDRC WEEI WFBL  
WGAR WGBI WGR WHC WHO  
WIBX WJAS WJR WJSV WKBN  
WKRC WLW WMAQ WMBR WOKO  
WORC WPRO WQAM WVVA  
**R — Uncle Ezra, See Monday**

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**M — Lone Ranger, see Mon.**

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**R — "Cheer Up"; Henry Burgis**  
KYW WFAF WENR WTAM

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**C — Cavalcade of America**  
KDB KERN KFAB KFBB KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KRLL KRNT  
KSL KVI KWG WABC WBBM  
WBNS WCAU WCCO WDRC WEAN  
WFBL WFBM WGR WHAS WHC  
WHK WJAS WJR WJSV WKRC  
WLAC WMBG WNAC WOKO WTOC  
WWL

**R — One Man's Family**  
KDYL KFI KFJR KGW KHQ KOA  
KOMO KPO KPRC KSD KSTP  
KTAR KTBS KTHS KVOO KYW  
WAPI WAVE WBAP WBEN WCAE  
WCSH WDAF WDAY WFAF WEGC  
WEEI WFAA WFBF WFLA WGB  
WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ

WMC WOAI WOW WPTF WRC  
WRVA WSB WSM WSMB WSOB  
WSUN WTAG WTAM WTAR WTIC  
WTMJ WWJ WWNC  
Also on Canadian Network

**B — Harriet Parsons**  
KDKA KECA KFEL KFSD KGA  
KGO KJR KLO KOIL KSO KWK  
WBAL WBL WBZA WCKY WEAN  
WEBR WFIL WHAM WHK WICC.  
WJZ WLS WMAL WMT WOWO  
WRZN WSPD WSFR WXYZ

**R — Tommy Dorsey Orchestra**  
KDYL KFI KGW KHQ KOA KOMO  
KPO KPRC KSD KSTP KTBS KYW  
WAVE WBEN WBRC WCAE WCHS  
WDAF WDEL WFAF WFAA WFBR  
WFLA WGY WHO WIOD WIRE  
WIS WJAR WJAX WKY WLW  
WMAQ WMBG WMC WNAC WOOD  
WOW WPTF WRC WSB WSM  
WSMB WSUN WTAG WTAM WTAR  
WTIC WWJ WWNC

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**C — Boake Carter, see Monday**

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**C — Chesterfield; Andre Kostelanetz**  
KDB KERN KFAB KFBB KFH  
KFPY KFRC KGB KGKO KGBM  
KHJ KLKA KLZ KMBC KMJ KMOX  
KOH KOIN KOL KOMA KRLL  
KRNT KSCJ KSL KTRH KTSB  
KTUL KVI KVOR KWG KWKH  
WABC WACO WADC WALA WBBM  
WBIG WBNS WBRC WBT WCAO  
WCAU WCCO WCOA WDAE WDBG  
WDBO WDNC WDOD WDRC WEAN  
WFBL WFBM WFEA WGST WHAS  
WHC WHK WHP WIBX WJAS  
WJAX WJDX WKY WLW WMAQ  
WMC WOAI WOW WPTF WRC WSB  
WSM WSMB WSOB WTAG WTAM  
WTAR WTIC WTMJ WWJ WWNC

**R — Town Hall Tonight**  
KFJR KPRC KSD KSTP KTBS  
KTHS KVOO KYW WAVE WBEN  
WCAE WCHS WDAF WDAY WFAF  
WFCB WEEI WFAA WFBR 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 WTMJ WWJ WWNC

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

**C — Ben Bernie; Lew Lehr**  
KDAL KFAB KFBB KFH KFPY  
KGAR KGKO KGLR KIRO KRLA  
KLZ KMBC KMOX KNOW KNX  
KOH KOIN KOMA KOY KRLL  
KRNT KSCJ KSD KSL KTRH  
KTSB KTUL KVI KVOR KWKH  
WABC WACO WALA WBBM WBIG  
WBNS WBT WCAO WCAU WCCO  
WCHS WCOA WCOB WDAE WDBJ  
WDBO WDNC WDOD WDRC WEEI  
WEOA WFBL WFBM WGR WGBI  
WGST WHAS WHC WHO WHLB  
WHP WIBW WIBX WISN WJAS  
WJNO WJR WJSV WKBB WKBI  
WKBW WKRC WLAC WLWB WMAS  
WMBD WMBR WMFG WMNN  
WNAX WNBW WNBX WNOX WOC  
WOKO WORC WPG WPRO WQAM  
WRC WRVA WSBT WSFA WSJS  
WTAQ WTOC WWL

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

**C — Crime Crusade; Phil Lord**  
KDB KERN KFAB KFBB KFH  
KFPY KFRC KGB KHJ KLRA KLZ  
KMBC KMJ KMOX KOIN KOL  
KOMA KRLL KRNT KSL KTRH  
KTSB KTUL KVI KWG KWKH  
WABC WACO WBBM WBNS WBRV  
WBT WCAO WCAU WCCO WDAE  
WDBJ WDBO WDRC WEAN WFBL  
WFBM WGST WHAS WHC WHK  
WICC WISN WJAS WJR WJSV  
WKBW WKRC WLAC WLWB WMBG  
WMBR WNAC WOKO WORC WOWO  
WQAM WRFC WTOC WWL

**R — Your Hollywood Parade**  
KDYL KERN KFBB KFI KFJR  
KGBX KGHJ KGRJ KGNC KGU  
KGW KHQ KIDO KMJ KOA KOB  
KOMO KPO KPRC KSD KSTP  
KTAR KTBS KTHS KWG KYW  
WAPI WAVE WBEN WCAE WCCS  
WCSH WDAF WDEL WFAF WFCB  
WFAA WFBC WFER WFEA WFLA  
WGL WGY WHO WIBA WIOD WIRE  
WIS WJAR WJAX WJDX WKY  
WLW WMAQ WMBG WMC WNAC  
WOAI WOOD WORG WOW WPTF  
WRC WSB WSM WSMB WSOB  
WSUN WTAG WTAM WTAR WTIC  
WTMJ WWJ WWNC

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

**C — Hobby Lobby; Harry Salter**  
KDAL KFAB KFH KFPY KGKO  
KIRO KLZ KMOX KNOW KNX  
KOH KOIN KOMA KRLL KOY  
KRNT KSD KSL KTRH KTSB  
KTUL KVI KWKH WALA WBBM  
WBRC WCOB WCOE WFRM WGST  
WHAS WIBW WISN WLAC WMBD  
WNBW WNOX WOC WRC WSBT  
WSFA WWL

**M — Lone Ranger, see Mon.**

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

**C — Poetic Melodies, See Monday**  
**R — Amos 'n' Andy, See Monday**

## THURSDAY

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**C — Boake Carter, see Monday**

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

**E-7:00 p.m., C-6:00, M-5:00, P-4:00**  
**C — Poetic Melodies, See Monday**  
**R — Amos 'n' Andy, See Monday**  
**B — Easy Aces, See Tuesday**

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C — Geo. McCall, see Tues.**

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**C — "We, The People."**

KFAB KMBC KMOX KNOW KOMA  
KRLL KRNT KSCJ KTRH KTSB  
KTUL WABC WBBM WBNS WCAO  
WCAU WCCO WDAE WDBO WDRC  
WEEI WFBL WGR WGR WHAS  
WHC WHO WHP WIBX WISN  
WJAS WJR WJSV WKRC WMBD  
WMBR WOC WOKO WPRO WQAM

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

**C — Kate Smith; Jack Miller**  
CFRB CRMC KDAL KFAB KFH  
KGKO KLRA KMBC KMOX KNOW  
KOMA KRLL KRNT KSCJ KTRH  
KTSB KTUL KWKH WABC WACO  
WADC WBBM WBNS WBRV WBT

## THURSDAY (Continued)

WCAO WCAU WCCO WDAE WDBJ  
WDBO WDDO WDRC WEEI WFB  
WFBM WGBR WGR WGST  
WHAS WHEC WHIO WHP WHW  
WISN WJAS WJR WJSV WKBN  
WKRC WLAC WLWB WMBD WMBR  
WNAX WNOX WOC WOKO WORC  
WPRO WQAM WRVA WREC WSFA  
WTAQ WWL

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

Also on Canadian Network

**B — The March of Time**  
KDKA KECA KERN KFBK KFEL  
KFSD KGA KGO KJR KLO KMJ  
KOIL KSO KWG KWK KXYZ  
WABY WAGA WBAL WBBZ WBAZ  
WCKY WCOC WCSC WDSU WEAN  
WEER WFIL WHAM WHK WICC  
WJZ WLS WMAL WMPX WMT  
WREN WSPD WSYR WXYZ

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**C — Boake Carter, see Monday**

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**C — Major Bowes' Amateurs**

CFRB CKAC KDB KERN KFAB  
KFBK KFH KFPY KFRC KGB  
KGKO KLRA KLZ KMBC KMJ  
KMOX KOIN KOL KOMA KRLL  
KRNT KSCJ KSL KTRH KTSB  
KTUL KVI KVOR KWG KWKH  
WABC WACO WADC WALA WBBM  
WBIG WBNS WBRC WBT WCAO  
WCAU WCCO WCOA WDAE WDBJ  
WDBO WDNC WDDO WDRC WEAN  
WFBL WFBM WFEA WGST WHAS  
WHFC WHK WHP WIBW WIBX  
WICC WISN WJAS WJR WJSV  
WKBN WKRB WKRC WLAC WLWB  
WMAS WMBD WMBG WMBR  
WMMN WNAC WNAX WOC WOKO  
WORC WOWO WPG WQAM WREC  
WSFA WSJS WSPD WTOC WWL

**R — MGM Program**

CRCT KDYL KERN KFBK KFI  
KFYR KGHM KGIR KGNC KGW  
KMJ KOA KOMO KPO KPRC KSD  
KSTP KTBS KWG KYW WAPI  
WAVE WBPB WBNB WCAE WCSH  
WDAF WDAY WECB WFBM WFLA  
WGY WHIO WIBA WIOD WISN WJAR  
WJAX WJDX WKY WLW WMAQ  
WMBG WMC WNAC WOAI WOOD  
WOW WPTF WRC WSB WSM  
WSMB WSOC WSUN WTAG WTAM  
WTAR WTIC WTMJ WWJ WNNC

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**R — Bob Burns; Bing Crosby**

CFBC CRCT KDYL KFI KFYY  
KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTAR KTBS KTHS  
KVOC KYW WAVE WBPB WBNB  
WCAE WCSH WDAF WDAY WFAF  
WFCB WEEI WFBM WFLA WGY  
WHO WIBA WIOD WISN WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WOAI WOW WPTF WRC  
WRVA WSB WSM WSMB WSOC  
WTAG WTAM WTAR WTIC WTMJ  
WWJ WNNC

Also on Canadian Network

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

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C — Kate Smith; Jack Miller**  
KFBB KFPY KGVO KIRO KLZ  
KNX KOIN KOY KSFO KSL KVI  
KVOR

## FRIDAY

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**C — Boake Carter, see Monday**

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**B — Lowell Thomas, See Monday**  
**C — Lum and Abner, see Monday**

**E-7:00 p.m., C-6:00, M-5:00, P-4:00**  
**C — Poetic Melodies, See Monday**  
**R — Amos 'n' Andy, See Monday**

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**R — Uncle Ezra, See Monday**

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**M — Lone Ranger, see Mon.**

**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**

KDB KERN KFAB KFBK KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KOMA KRNT  
KSL KVI KWG WAHC WBBM  
WBNS WBRC WBT WCAO WCAU  
WCCO WDCR WEAN WFBL WFBM  
WFBR WGST WHAS WHK WJAS  
WJR WJSV WKRC WMAS WMBG  
WNAC WOKO WWL

**R — Cities Service Concert**

CRCT CPHY KOA KPRC KSD  
KSTP KTBS KTHS KVOC KYW  
WBPB WBNB WCAE WCSH WDAF  
WDAY WFAF WFCB WEEI WFAA  
WFBM WGY WHO WIBA WIOD  
WJAR WKY WMAQ WOAI WOW  
WRC WRVA WSAI WTAG WTAM  
WTIC WTMJ WWJ

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — Paul Whiteman; Deems Taylor**

KFAB KFH KGKO KLRA KMBC  
KMOX KOMA KRLL KRNT KSCJ  
KTRH KTSB KTUL KWKH WABC  
WACO WADC WALA WBBM WBIG  
WBNS WBRC WBT WCAO WCAU  
WCCO WCOA WDAE WDBJ WDBO  
WDNC WDDO WDRC WEEI WFBL  
WFBM WFEA WGR WGST WHAS  
WHEC WHIO WHK WHP WIBW  
WIBX WISN WJAS WJR WJSV  
WKBN WKRC WLAC WLWB WMAS  
WMBD WMBG WMBR WMMN  
WNAX WNBW WNOX WOC WOKO  
WORC WOWO WPG WPRO WQAM  
WREC WSFA WSJS WSPD WTOC  
WWL

**B — Death Valley Days**

KDKA KDYL KFI KGW KHQ KOIL  
KOMO KPO KSO KWK WBAI WBZ  
WBSA WFIL WGAR WHAM WJZ  
WLW WLW WMAL WMT WREN  
WSYR WXYZ

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**C — Boake Carter, see Monday**

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

CFRB CKAC KDB KERN KFAB  
KFBK KFH KFPY KFRC KGB  
KHJ KLRA KLZ KMBC KMJ KMOX  
KOIN KOL KOMA KRLL KRNT  
KSCJ KSL KTRH KTSB KTUL KVI  
KVOR KWG KWKH WABC WADC  
WBBM WBNS WBRC WBT WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDRC WEAN WFBL WFBM WFEA

WGST WHAS WHEC WHK WHP  
WIBW WIBX WICC WJAS WJR  
WJSV WKBW WKRC WLAC WLWB  
WMAS WMBD WMBG WMBR  
WNAC WNAX WNOX WOKO WORC  
WPG WQAM WREC WSPD WWL  
Also on Canadian Network

**R — Frank Munn; Abe Lyman**  
KSD KYW WBNB WCAE WCSH  
WDAF WFAF WEEI WFBM WGY  
WJAR WLW WMAQ WOW WRC  
WTAG WTAM WWJ

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

**R — True Story Court**  
KSD KYW WBNB WCAE WCSH  
WFAF WEEI WFBM WGY WHO  
WHIO WJAR WMAQ WOW WRC  
WTAG WTAM WTIC WWJ

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

**C — Frank Crumit; Reed Kennedy**  
KDAL KPAB KPBB KFH KFPY  
KGKO KOLA KGVO KRLA KLZ  
KMOX KNOW KNX KOH KOIN  
KOL KOMA KOY KRLL KRNT  
KSCJ KSFO KSL KTRH KTSB  
KTUL KVI KVOR KWKH WABC  
WACO WADC WALA WBBM WBIG  
WBNS WBRC WBT WCAO WCAU  
WCO WCHS WCOA WCCO WDAE  
WDBJ WDBO WDNC WDDO WDRC  
WEEI WEOA WFBL WFBM WGAR  
WGI WGST WHAS WHEC WHIO  
WHP WIBW WIBX WISN WJAS  
WNO WJR WJSV WKBW WKBW  
WKRC WLAC WLWB WMAS WMBD  
WMBR WMMN WNBW WNOX WOC  
WOKO WORC WPAR WPG WPRO  
WQAM WREC WRVA WBSB WSFA  
WSJS WTOC WWL

**CB — Canada 1938**

CBF CBL CBM CBO CBR CBW  
CFAC CFBC CFCH CFON CFPO  
CFYC CFJC CFNB CFPL CFQC  
CHAB CHNS CHRC CHSJ CHWK  
CIAT CIJA CIJB CIJC CIJL  
CIJC CKBI CKCK CKCW CKGB  
CKOV CKOC CKPR CKSO CKX  
CKY

**R — First Nighter; Drama**

KDYL KFI KFYY KGW KHQ KOA  
KOMO KPO KPRC KSD KSTP  
KTBS KTHS KYW WAVE WBNB  
WCAE WCSH WDAF WDAY WFAF  
WFCB WEEI WFAA WFBM WFLA  
WGY WHO WIBA WIOD WISN WJAR  
WJAX WJDX WKY WLW WMAQ  
WMBG WMC WNAC WOAI WOOD  
WOW WPTF WRC WRVA WSB  
WSM WSMB WSOC WTAG WTAM  
WTAR WTIC WTMJ WWJ WNNC

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**M — Lone Ranger, see Mon.**

**R — Jimmy Fidler**

KDYL KFI KGW KHQ KOA KOMO  
KPO KSD KSTP KYW WBNB  
WCAE WCSH WDAF WDEL WFAF  
WFBM WGY WIBA WIRE WJAR  
WLW WMAQ WNAC WOW WRC  
WTAG WTAM WTIC WTMJ WWJ

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

**R — Dorothy Thompson—News**

KDYL KFI KGW KHQ KOA KOMO  
KPO KSD KSTP KYW WBNB WCAE  
WCSH WDAF WDEL WFAF WFBM  
WGY WIRE WJAR WLW WMAQ  
WNAC WOW WRC WTAG WTAM  
WTIC WWJ

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

**C — Poetic Melodies, See Monday**  
**R — Amos 'n' Andy, See Monday**

## FRIDAY (Continued)

E-11:15 p.m., C-10:15, M-9:15, P-8:15  
C — Boake Carter, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30  
C — Paul Whiteman; Deems Taylor  
KFBB KPFF KGAR KGMB KGVO  
KIRO KLZ KNX KOH KOIN KOY  
KSTO KSL KVI KFOR

E-12:00 p.m., C-11:00, M-10:00, P-9:00  
CBC — Northern Messenger  
To Mideast and Western Networks

## SATURDAY

E-7:00 p.m., C-6:00, M-5:00, P-4:00  
C — Saturday Night Swing Club  
Available to Columbia Network

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

B — Uncle Jim's Question Bee  
KDKA WBZ WBZA WGY WHK  
WJZ WMAQ

E-8:00 p.m., C-7:00, M-6:00, P-5:00  
R — "Believe-it-or-not." Ripley  
KANS KDYL KFYZ KGNC KOA  
KPRC KSD KSTP KYW WAPI  
WAVE WBAP WBN WCAE WCSH  
WDAF WDAY WDEL WDFW WDFC  
WDFC WFBZ WGY WHO WIBA  
WIRE WJAR WKY WLW WMAQ  
WMBG WNAC WMC WQAI WOOD  
WOW WPTF WRG WSB WSMB  
WSOC WSPD WTAG WTAM WTAR  
WTIC WTMJ WWJ

E-8:30 p.m., C-7:30, M-6:30, P-5:30  
C — Johnny Presents Russ Morgan  
KFAB KFH KMBC KMOX KRNT  
WABC WADC WBBM WBIG WBNS  
WBT WCAO WCAU WCCO WCOA  
WDRG WEEI WFBL WFBM WGR  
WGST WHAS WHEC WHIO WHK  
WHP WISN WJAS WJR WJSV  
WKRC WMBD WMBG WNBZ WOC  
WOKO WPRO WSBT WWVA

R — Jack Haley; Virginia Verrill  
KDYL KGNC KOA KPRC KSD  
KSTP KYW WAPI WAVE WBAP  
WBN WCAE WCSH WDAF WDEL  
WDFW WDFC WFBZ WFBZ WGY  
WHO WIBA WIRE WJAR WKY  
WLW WMAQ WMBG WMC WNAC  
WQAI WOW WPTF WRG WSB  
WSMB WSOC WSPD WTAG WTAM  
WTAR WTIC WTMJ WWJ

E-9:00 p.m., C-8:00, M-7:00, P-6:00  
C — Prof. Quiz  
KDB KERN KFAB KFBB KPFF  
KPRC KGB KHJ KLRA KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLL KRNT KSL KTRII KTSA  
KVI KWG WABC WBBM WBNS  
WBT WCAO WCAU WCCO WDAE  
WDBO WDRG WEAN WFBL WFBM  
WJAS WJR WJSV WKBW WKRC  
WMBR WOKO WQAM WREC WSPD  
WWL

B — National Barn Dance  
KDKA KOIL KPRC KSO KTBS  
KTBS KWK WABY WAPI WAVE

WBAL WBAP WBZ WBOA WFIL  
WFLA WHK WHAM WID WIRE  
WIS WJAX WJDX WJZ WKY WLS  
WMAL WMC WMT WOAI WOOD  
WPTF WREN WRVA WSB WSMB  
WSOC WSUN WSYR WTAR WWNC  
WXYZ

E-9:30 p.m., C-8:30, M-7:30, P-6:30  
C — Saturday Night Serenade  
KFAB KFH KPFF KGKO KLRA  
KLZ KMBC KMOX KNOW KNX  
KOIN KOL KOMA KRLL KFSO  
KTRH KTSa KTUL KVI KWKH  
WALA WBBM WBIG WBNS WBRG  
WBT WCAO WCAU WCOA WDAE  
WDBO WDDO WEEI WFBL WFBM  
WGAR WGST WHAS WHEC WJAS  
WJR WJSV WKBW WLAC WMBD  
WMBR WMMN WNOX WOC WQAM  
WREC WRVA WSAF WTOC WWL  
WWVA

E-10:00 p.m., C-9:00, M-8:00, P-7:00  
C — Your Hit Parade  
KERN KFAB KFBB KFH KPFF  
KPRC KGB KGKO KGMB KHJ  
KLRA KLZ KMBC KMJ KMOX  
KOH KOIN KOL KOMA KRLL  
KRNT KSCJ KSL KTRH KTSa  
KTUL KVI KFOR KWG KWKH  
WABC WACO WADC WALA WBBM  
WBIG WBNS WBRG WBT WCAO  
WCAU WCCO WCOA WDAE WDBJ  
WDBO WDNC WDDO WDRG WEAN  
WFBL WFBM WFEA WGST WHAS  
WHEC WHK WHP WIBW WIBX  
WICC WISN WJAS WJR WJSV  
WKBW WKRC WLAC WLZ WMAS  
WMBD WMBG WMBR WNAC  
WNAX WNOX WOC WOKO WORC  
WPG WQAM WREC WSBT WSAF  
WSJS WSPD WTOC WWL WWVA

R — NBC Symphony Orchestra  
Available to entire Red and Blue  
Network and to Canadian Network

E-11:00 p.m., C-10:00, M-9:00, P-8:00  
B — National Barn Dance  
KDYL KFI KFSD KFYZ KGLH  
KGIR KGU KGW KHQ KOA KOMO  
KPO KSTP KTAR WDAY WDFC  
WIBA WLW WTMJ

E-11:30 p.m., C-10:30, M-9:30, P-8:30  
C — Johnny Presents Russ Morgan  
KFBB KPFF KGVO KIRO KLZ  
KNX KOIN KFSO KSL KVI KFOR

E-12:00 p.m., C-11:00, M-10:00, P-9:00  
C — Professor Quiz  
KFBB KPFF KIRO KNX KOH  
KOIN KOY KFSO KSL KVI  
R — "Believe-It-Or-Not" Ripley  
KERN KFBB KFI KGW KHJ KMJ  
KOMO KPO KWG

## SUNDAY

E-11:30 a.m., C-10:30, M-9:30, P-8:30  
C — Major Bowes' "Family"  
CFRB KERN KFAB KFBB KFBB  
KFH KPFF KPRC KGB KGVO  
KMBC KOH KOL KRLL KSL KTRH  
KTSa KVI KFOR KWG KWKH  
WABC WACO WADC WALA WBNS  
WBRG WCAO WCCO WDAE WDBJ  
WDBO WDNC WESG WFBL WFEA  
WHAS WHK WIBX WJAS WJR  
WKRC WLZB WMBD WMBR

WMMN WOC WOKO WORC WPG  
WQAM WSBT WSJS WSPD 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 KFBB KFH  
KFYF KPRC KGB KLZ KOH KOL  
KRLL KSL KTRH KTSa KVI KFOR  
KWG WABC WACO WADC WALA  
WBIG WBNS WBRG WCAO WCCO  
WDAE WDBJ WDBO WESG WFBL  
WFEA WGR WHAS WICC WJAS  
WJR WKRC WLBC WMBR WMMN  
WOC WOKO WORC WQAM WSBT  
WSJS WSPD WTOC

E-1:00 p.m., C-Noon, M-11:00 a.m.,  
P-10:00  
C — Church of the Air  
KFBB KFH KPFF KPRC KGB  
KHJ KMOX KOH KOL KOMA KRLL  
KRNT KSCJ KSL KTRH KTSa KVI  
KFOR KWG WABC WALA WBNS  
WBT WCAO WCCO WDAE WDBJ  
WDBO WDRG WESG WFBL WFBM  
WGR WHAS WHP WIBX WJAS  
WJSV WKBW WKRC WLAC WLZB  
WMBR WNBZ WOC WOKO WORC  
WPG WQAM WREC WSBT WSJS  
WSPD WTOC WWVA

E-2:00 p.m., C-1:00, M-Noon, P-11:00  
a.m.  
B — Magic Key of RCA  
CFRC CRCT KDKA KDYL KFI  
KFYR KGU KGW KHQ KOA KOIL  
KOMO KPO KPRC KSO KSTP KTBS  
KTBS KVOO KWK WAPI WAVE  
WBAL WBZ WBZA WCKY WDAY  
WDFC WENR WFAA WFIL WFLA  
WGAR WHAM WHIO WHA WIOD  
WIRE WIS WJAX WJDX WJZ WKY  
WMAL WMC WMT WOAI WPTF  
WREN WRVA WSB WSM WSMB  
WSOC WSYR WTAR WTMJ WWNC  
WXYZ

E-2:30 p.m., C-1:30, M-12:30, P-11:30  
C — Jean Hershot, "Dr. Christian."  
CFRB KFAB KFH KMBC KMOX  
KNOW KOMA KRLL KRNT KSCJ  
KTRH KTSa KWKH WABC WADC  
WBBM WBNS WBRG WBT WCAO  
WCAU WCCO WCHS WDAE WDBO  
WDRG WEEI WFBL WFBM WGAR  
WGST WHAS WHEC WHIO WHP  
WJBW WJAS WJR WJSV WKBW  
WKRC WLAC WLZB WMAS WMBR  
WOKO WORC WPRO WQAM WREC  
WRVA WWL

E-3:00 p.m., C-2:00, M-1:00, P-Noon  
C — N. Y. Philharmonic  
CFRB CKAC KFAB KFBB KFH  
KGKO KGVO KLRA KLZ KMBC  
KMOX KNOW KOL KHLI KSCJ  
KSL KTRH KTSa KWKH WABC  
WADC WALA WBNS WBT WCAO  
WCCO WCHS WDAE WDBJ WDBO  
WDRG WEEI WESG WFBL WFBM  
WHAS WHK WHP WIBW WIBX  
WJAS WJR WJSV WKBW WKBW  
WKBW WKRC WLAC WLZB WMAS  
WMBD WMBG WMBR WMMN  
WNBZ WOC WOKO WORC WPAR  
WPRO WQAM WSBT WSJS WTAQ  
WTOC WWL

Also on Canadian Network

R — The Radio News Reel  
KSD KSTP KYW WBN WCAE

# SUNDAY (Continued)

WCBS WDAF WDEL WEAF WFBR  
WGY WHO WIRE WJAR WMAQ  
WNAC WOW WRC WSAI WTAC  
WTAM WTIC WWJ

E-4:30 p.m., C-3:30, M-2:30, P-1:30

R — The World Is Yours; Drama  
Available to Red Network

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

C — Magazine of the Air

CFRB CKAC KFAB KFPY KLZ  
KMBC KMOX KNOW KNX KOIN  
KOL KOMA KRLD KRNT KSFO  
KSL KTRH K TSA K TUL KVI  
WABC WADC WBBM WBNS WCAO  
WCAU WCCO WDAE WDRC WEEI  
WGAR WGR WGST WHAS WHBC  
WHIO WJAS WJR WJSV WKRC  
WMBR WOKO WPRO WQAM WWL

R — Marlon Talley

KDYL KFI KGW KHQ KOA KOMO  
KPO KSTP KYW WBN WCAE  
WCOL WCBS WDAF WDEL WEAF  
WEBC WFBR WGY WHO WIBA  
WIRE WJAR WMAQ WNAC WOOD  
WOW WRC WSAI WTAC WTAM  
WTIC WTMJ WWJ

B — Metropolitan Opera Auditions

CFCF CRCT KARK KDKA KECA  
KEX KFEL KFI KFSO KFYR KGA  
KGR KGNK KGO KGU KJR KLO  
KOIL KPRC KSO KTBS KVOO  
KWK WABY WAPI WAVE WBAL  
WBAP WBZ WBZA WCKY WCSC  
WDAY WEAN WEBR WENR WFIL  
WFLA WHAM WHK WICC WIOD  
WIS WJAX WJDX WJZ WKY WMAL  
WMC WMT WOAI WOWO WPTF  
WREN WRD WSB WSM WSMB  
WSOC WSPD WSUN WSYR WTAR  
WTCN WWNC WXYZ

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

C — Guy Lombardo and Orchestra

KFH KMBC KNOX KOMA KTUL  
WAAB WABC WBNB WCAO WCAU  
WDRC WEAN WFIL WFBM WGR  
WHAS WHBC WHK WIBX WIC  
WJR WJSV WMAS WOKO WORC  
WSPD WWVA

B — Smiling Ed McConnell

KANS KDKA KECA KERN KEX  
KFBC KFSO KFYR KGA KGR  
KGO KJR KLO KMJ KOIL KSO  
KTAR KVG KWK WAVE WBAL  
WBZ WBZA WCKY WCOL WDAY  
WDSU WEAN WEBR WENR WFLA  
WFLA WHAM WHK WICC WJZ  
WMAL WMT WREN WRD WSM  
WSPD WSYR WTCN WXYZ

R — Mickey Mouse Theater

KANS KDYL KFI KGNK KGW  
KHQ KOA KOMO KPO KPRC KSD  
KSTP KVOO KYW WAVE WBA  
WBEN WBRC WCAE WCHS WDAF  
WDEL WEAF WFCB WFBR WFLA  
WGY WHO WIBA WIOD WIRE  
WIS WJAR WJAX WKY WLW  
WMAQ WMBG WMC WNAC WOAI  
WOOD WOW WPTF WRC WSB  
WSM WSMB WSUN WTAC WTAM  
WTAR WTIC WTMJ WWJ

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

C — Joe Penner; Gene Austin

KFAB KFPY KGLO KLZ KMBC  
KMOX KNOW KNX KOIN KOL  
KOM KRLD KRNT KSFO KSL  
KTRH K TSA KVI WABC WBBM  
WBNS WBRB WBT WCAO WCAU  
WCCO WDAE WDBO WDRC WEEI  
WFIL WFBM WGR WGST WHAS  
WHBC WJAS WJR WJSV WKRB  
WKRC WOKO WORC WPRO WQAM  
WREC WRVA

M — George Jessel; Tommy Tucker  
To entire MBS and Michigan Net-  
works

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

C — Double Everything

CFRB CKAC KDAL KFAB KFH  
KFPY KGAR KGMB KIRO KLRA  
KLZ KMBC KMOX KNOW KNX  
KOH KOMA KOY KRLD KRNT  
KSCJ KSFO KSL KTRH K TSA  
KTUL KVI WABC WADC WBBM  
WBT WCAO WCAU WCCO WDAE  
WDBO WDRC WEEI WFIL WFBM  
WGR WGST WHAS WHBC WHIO  
WHLB WJAS WJNO WJR WJSV  
WKRB WKRC WLAC WMBR  
WMPG WNAX WNOX WOKO WPRO  
WQAM WREC WRVA WTCN WWL  
WWVA

R — A Tale of Today

WBEN WEAF WGY WJAR WMAQ  
WOW WRC WTAM

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

R — Jack Benny; Mary Livingstone

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

Also on Canadian Network

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

C — Phil Baker; Oscar Bradley

KLRA KLZ KRLD KTRH K TSA  
KTUL KWKH WABC WACO WADC  
WALA WBIG WBNS WBRB WBT  
WCAO WCAU WCOA WDAE WDBJ  
WDBO WDNC WDOD WDRC WEAN  
WFIL WFBM WFEA WGR WGST  
WHAS WHBC WHK WHP WIBX  
WICC WJAS WJR WJSV WKBN  
WKRC WLAC WLBZ WMAS WMBR  
WNAC WNOX WOKO WORC WQAM  
WREC WSBT WSFA WSJS WSMK  
WSPD WTCN WWL WWVA

B — Ozzie Nelson; Harriet Hillard

KARK KDKA KECA KFEL KEX  
KFSO KFYR KGA KGO KJR KLO  
KOIL KPRC KSO KSTP KTAR  
KTBS KTBS KVOO KWK WABY  
WAPI WAVE WBAL WBAP WBZ  
WBZA WCKY WCOL WDAY WEAN  
WEBR WFLA WFLA WHAM  
WHK WIBA WICC WIOD WIS  
WJAX WJDX WJZ WKY WLEU  
WLS WMAL WMC WMT WOAI  
WPTF WREN WRD WSB WSM  
WSM WSOC WSUN WSYR WTAR  
WTMJ WWNC WXYZ

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

R — Don Ameche; Edgar Bergen  
CFCF CRCT KDYL KFI KFYR

KGW KHQ KOA KOMO KPO KPRC  
KSD KSTP KTAR KTBS KVOO  
KYW WAVE WBN WCAE WCBS  
WDAF WDAY WEAF WEBC WFAA  
WFBR WFLA WGY WHO WIBA  
WIOD WIRE WIS WJAR WJAX  
WJDX WKY WLW WMAQ WMC  
WNAC WOAI WOW WPTF WRC  
WRVA WSB WSM WSMB WSOC  
WSUN WTAC WTAM WTAR WTIC  
WTMJ WWJ WWNC  
Also on Canadian Network

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

C — Ford Concert

CFRB CKAC KDB KERN KFAB  
KFBC KFI KFPY KPRC KGB  
KGKO KHJ KLRA KLZ KMBC  
KMJ KMOX KOH KOIN KOL KOMA  
KRLD KRNT KSCJ KSL KTRH  
K TSA KTUL KVI KFOR KWG  
KWKH WABC WACO WADC WALA  
WBBM WBIG WBNS WBRB WBT  
WCAO WCAU WCCO WCOA WDAE  
WDBJ WDBO WDNC WDOD WDRC  
WEAN WFIL WFBM WFEA WGR  
WGST WHAS WHBC WHK WHP  
WIBW WIBX WICC WISN WJAS  
WJR WJSV WKBN WKRC WLAC  
WLBZ WMAS WMBD WMBR WNAC  
WNAX WOC WOKO WORC WQAM  
WREC WSBT WSFA WSJS WSPD  
WTCN WWL WWVA

B — Tyrone Power; Drama

KDKA KECA KFSO KGA KGH  
KGR KGO KJR KLO KOIL KSO  
KTAR KWK WBAL WBZ WBZA  
WEBC WENR WENR WFIL WGR  
WHAM WICC WJZ WLW WMAL  
WMT WREN WSYR WXYZ

R — Manhattan Merry-Go-Round

CFCF KDYL KFI KFYR KGW  
KHQ KOA KOMO KPO KPRC KSD  
KSTP KTBS KTBS KYW WAPI  
WAVE WBN WCAE WCHS WDAF  
WDAY WEAF WEBC WEEI WFAA  
WFBR WFLA WGY WHO WIBA  
WIOD WIRE WIS WJAR WJAX  
WJDX WKY WMAQ WMC WOAI  
WOW WPTF WRC WRVA WSB  
WSM WSMB WSOC WTAC WTAM  
WTAR WTIC WTMJ WWJ WWNC

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

R — Album of Familiar Music

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

B — Walter Winchell

KDKA KECA KEX KFSO KGA  
KGH KGR KGO KJR KLO KOIL  
KSO KTAR KWK WBAL WBZ  
WEBC WENR WFLA WGR WHAM  
WJZ WLW WMAL WMT WREN  
WSYR WXYZ

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

B — Irene Rich, Drama

KDKA KOIL KSO KWK WBAL  
WBZ WBZA WCKY WEAN WEBR

## SUNDAY (Continued)

WENR WFIL WHAM WHK WICC  
WJZ WMAL WMT WREN WSPD  
WSYR WTCN WXYZ

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

**C — Zenith Foundation**

KFAB KFPY KLRA KLZ KMBC  
KMOX KNOW KNX KOIN KO  
KOMA KRLD KRNT KSPF  
KSL KTRH KTSB KTVL KVI  
WABC WBBM WBNS WBRC WBT  
WCAU WCCO WDBE WDBO WDRB  
WEEI WFBL WFDM WGAR WGST  
WHAS WHEC WJAS WJR WJSV  
WKBW WKRC WMBR WNOX  
WOKO WORC WPRO WQAM WWL

**R — Rising Musical Stars**

KDYL KFI KGBX KGW KHQ KOA

KPO KPRC KSD KSTP KTAR KTBS  
KTHS KYW WAVE WBAP WBEN  
WCAE WCSH WDAF WEAF WFBR  
WFLA WGY WHO WIBA WIOD  
WIRE WIS WJAR WJAX WJDX  
WKY WMAQ WMC WNAC WOAI  
WOOD WOW WPTF WRC WRVA  
WSB WSM WSMB WSOB WTAG  
WTAM WTAR WTIC WTMJ WWJ  
WWNC

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

**B — Tyrone Power; Drama**

KARK KPRC KTBS WAPI WAVE  
WBAP WJDX WKY WMC WOAI  
WSB WSM WSMB

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

**B — Irene Rich, Drama**

KECA KERN KEX KFBK KFSB

KGA KGO KJR KLO KMJ KVOD  
KWG WAPI WAVE WJDX WMC  
WSB WSM WSMB

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

**B — Walter Winchell**

KDYL KFI KFSB 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**

**R — Jack Benny-Mary Livingstone**

KDYL KERN KFBK KFI KFSB  
KGHL KGIR KGU KGW KHQ  
KIDO KMJ KOA KOMO KPO KTAR  
KWG

## CLASSIFIED INDEX TO CHAIN PROGRAMS

*Time in Eastern Standard*

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

### COMEDY

Fred Allen, 9:00 p.m. Wed., Red  
Phil Baker, 7:30 p.m. Sun., CBS  
Jack Benny-Mary Livingstone, 7 and 11:30 p.m. Sun.,  
Red  
Edgar Bergen-Charlie McCarthy, 8 p.m. Sun., Red  
Fannie Brice, 9 p.m. Thurs., Red  
Henry Burbig, 7:45 p.m. Wed., Red  
Bob Burns, 10:00 p.m. Thurs., Red  
Burns and Allen, 8 and 10:30 p.m. Mon., Red  
Charles Butterworth, 9:30 p.m. Tues., Red  
Eddie Cantor, 7:30 p.m. Mon., CBS  
Jack Haley, 8:30 p.m. Sat., Red  
Arlene Harris, 9 and 12 p.m. Tues., CBS  
George Jessel, 6:00 p.m. Sun., MBS  
Al Jolson, 8:30 and 11:30 p.m. Tues., CBS  
Lew Lehr, 9:30 p.m. Wed., CBS  
Parkyakarkus, 8:30 and 11:30 p.m. Tues., CBS  
Al Pearce, 9 and 12 p.m. Thurs., CBS  
Joe Penner, 6:00 p.m. Sun., CBS  
Joe Rines, 5:30 p.m. Sun., Red  
Oliver Wakefield, 8:30 and 11:30 p.m., Fri., CBS

### CONCERTS

Frank Black, 2:00 p.m. Sun., Blue  
Ford Sunday Evening Hour, 9:30 p.m. Sun., CBS  
Andre Kostelanetz, 9:00 p.m. Wed., CBS  
Met. Opera Auditions, 5:00 p.m. Sun., Blue  
NBC Symphony Orchestra, 10:00 p.m. Sat., Red and  
Blue  
N. Y. Philharmonic, 3:00 p.m. Sun., CBS  
Philadelphia Symphony, 9:00 p.m. Sun., Blue

### DANCE BANDS

Robert Armbruster, 8:00 p.m. Sun., Red  
Ben Bernie, 9:30 p.m. Wed., CBS  
Oscar Bradley, 7:30 p.m. Sun., CBS  
Don Donnie, 9 p.m. Sun., Red  
Tommy Dorsey, 8:30 p.m. Wed., Red  
Eddie Duchin, 10 p.m. Tues., MBS  
Ted Fio Rito, 8:30 p.m. Sat., Red  
Al Goodman, 10:00 p.m. Sat., CBS; 10 p.m. Wed., Red

Benny Goodman, 10:00 p.m. Tues., CBS  
Jimmy Grier, 6:00 and 11:00 p.m. Sun., CBS  
Gustav Haenschen, 9:30 p.m. Sun., Red; 10:00 p.m.  
Fri., CBS  
Phil Harris, 7 and 11:30 p.m. Sun., Red  
Horace Heidt, 9:00 p.m. Tues., Blue  
Carl Hoff, 9 and 12 p.m. Tues., CBS  
Wayne King, 8:30 p.m. Tues., Red; 10 p.m. Mon.,  
CBS  
Benny Kreuger, 8:30 p.m. Mon., CBS  
Guy Lombardo, 5:30 p.m. Sun., CBS  
Abe Lyman, 9:00 p.m. Fri., Red  
Frankie Masters, 8:30 p.m. Tues., Blue  
Jack Miller, 8 and 11:15 p.m. Thurs., CBS  
Billy Mills, 9 p.m. Mon., Red  
Russ Morgan, 8:30 and 11:30 p.m. Sat., CBS; 8:00 p.m.  
Tues., Red  
Ozzie Nelson, 7:30 p.m. Sun., Blue  
Ray Noble, 8 and 10:30 p.m. Mon., Red  
Raymond Paige, 9:00 p.m. Fri., CBS  
B. A. Rolfe, 8:00 and 12:00 p.m. Sat., Red  
Harry Salter, 7:15 and 10:30 p.m. Wed., CBS; 8 p.m.  
Mon., Blue  
Seymour Simons, 6:30 p.m. Sun., CBS  
Harry Sosnik, 9 and 10:30 p.m. Sun., Blue  
Phil Spitalny, 9:30 p.m. Mon., Red  
Johnny Trotter, 10:00 p.m. Thurs., Red  
Tommy Tucker, 6:00 p.m. Sun., MBS  
Rudy Vallee, 8:00 p.m. Thurs., Red  
Peter Van Steeden, 9:00 p.m. Mon., Red  
Don Voorhees, 8:00 p.m. Wed., CBS  
Mark Warnow, 7:30 and 10:30 p.m. Thurs., CBS;  
5 p.m. Sun., CBS  
Paul Whiteman, 8:30 and 11:30 Fri., CBS  
Meredith Willson, 9:00 p.m. Thurs., Red  
Victor Young, 8:30 and 11:30 p.m. Tues., CBS

### DIALOG

Amos 'n' Andy, 7:00 and 11:00 p.m. Mon. through  
Fri., Red  
Easy Aces, 7:00 p.m. Tues., Wed., Thurs., Blue  
Fibber McGee and Molly, 9:00 p.m. Mon., Red  
Lum and Abner, 6:45 p.m. Mon., Wed., Fri., CBS  
Pick and Pat, 8:30 and 11:30 p.m. Mon., CBS  
Stroud Twins, 8:00 p.m. Sun., Red

**DRAMA**

Campana's First Nighter, 10:00 p.m. Fri., Red  
 Campana's Grand Hotel, 8:30 p.m. Mon., Blue  
 Death Valley Days, 8:30 p.m. Fri., Blue  
 Gang Busters, 10:00 p.m. Wed., CBS  
 Eddie Guest, 8:30 p.m. Tues., Blue  
 Jean Hersholt, 2:30 p.m. Sun., CBS  
 Hollywood Hotel, 9:00 p.m. Fri., CBS  
 Hollywood Playhouse, 9:00 and 11:30 p.m. Sun., Blue  
 Lone Ranger, 7:30 and 10:30 p.m. Mon., Wed., Fri.,  
 MBS  
 Lux Radio Theater, 9:00 p.m. Mon., CBS  
 Helen Menken, 7:30 p.m. Tues., CBS  
 One Man's Family, 8:00 p.m. Wed., Red  
 Tyrone Power, 9:00 and 10:00 p.m. Sun., Blue  
 Irene Rich, 9:45 and 11:00 p.m. Sun., Blue  
 Edward G. Robinson, 8:00 p.m. Tues., CBS  
 A Tale of Today, 6:30 p.m. Sun., Red  
 Claire Trevor, 8:00 p.m. Tues., CBS  
 We, The People, 7:30 and 10:30 p.m. Thurs., CBS

**POPULAR PROGRAMS**

American Album of Familiar Music, 9:30 p.m. Sun.,  
 Red  
 Believe It Or Not, 8:00 and 12:00 p.m. Sat., Red  
 Major Bowes' Amateurs, 9:00 p.m. Thurs., CBS  
 Major Bowes' Family, 11:30 a.m. Sun., CBS  
 Brave New World, 10:30 p.m. Mon., CBS  
 Carborundum Band, 7:30 p.m. Sat., CBS  
 Cavalcade of America, 8:00 p.m. Wed., CBS  
 Chase and Sanborn Hour, 8:00 p.m. Sun., Red  
 Cheer Up, America, 7:45 p.m. Wed., Red  
 Cities Service Concert, 8:00 p.m. Fri., Red  
 Contented Program, 10:00 p.m. Mon., Red  
 Death Valley Days, 8:30 p.m. Fri., Blue  
 Double Everything, 6:30 p.m. Sun., CBS  
 Gang Busters, 10:00 p.m. Wed., CBS  
 Jack Haley's Variety Show, 8:30 p.m. Sat., Red  
 Hammerstein Music Hall, 8:00 p.m. Fri., CBS  
 Hobby Lobby, 7:15 and 10:30 p.m. Wed., CBS  
 Hour of Charm, 9:30 p.m. Mon., Red  
 How To Win Friends and Influence People, 10:45 p.m.  
 Tues., Red  
 It Can Be Done, 8:30 p.m. Tues., Blue  
 Jello Program, 7:00 and 11:30 p.m. Sun., Red  
 Johnny Presents—, 8:00 p.m. Tues., Red; 8:30 and  
 11:30 p.m. Sat., CBS  
 Kraft Music Hall, 10:00 p.m. Thurs., Red  
 Warden Lawes, 10:00 p.m. Mon., Blue  
 Log Cabin Review, 8:30 p.m. Sat., Red  
 Magazine of the Air, 5 p.m. Sun., CBS  
 Magic Key of RCA, 2:00 p.m. Sun., Blue  
 Manhattan Merry-Go-Round, 9:00 p.m., Sun., Red  
 March of Time, 8:00 p.m. Thurs., Blue  
 Melody Puzzles, 8 p.m. Mon., Blue  
 MGM Program, 9:00 p.m. Thurs., Red  
 Mickey Mouse Theater, 5:30 p.m. Sun., Red  
 National Barn Dance, 9:00 and 11:00 p.m. Sat., Blue  
 Northern Messenger, 11:00 p.m. Sat., CBS  
 Jack Oakie's College, 9:30 p.m. Tues., CBS  
 Poetic Melodies, 7:00 and 11:00 p.m. Mon. through  
 Fri., CBS  
 Professor Quiz, 9:00 and 12:00 p.m. Sat., CBS  
 Radio News Reel, 3:00 p.m. Sun., Red  
 Salt Lake City Tabernacle, 12:30 p.m. Sun., CBS  
 Saturday Night Serenade, 9:30 p.m. Sat., CBS  
 Saturday Night Swing Club, 7:00 p.m. Sat., CBS  
 Kate Smith Hour, 8:00 and 11:15 p.m. Thurs., CBS  
 Songsong, 10:00 p.m. Fri., CBS  
 Station E-Z-R-A, 7:15 p.m. Mon., Wed., Fri., Red  
 Swing School, 10:00 p.m. Tues., CBS  
 Texaco Town, 8:30 and 11:30 p.m. Wed., CBS  
 Town Hall Tonight, 9:00 p.m. Wed., Red  
 True Story Court, 9:30 p.m. Fri., Red  
 Uncle Jim's Question Bee, 7:30 p.m. Sat., Blue  
 Vick's Open House, 7:00 p.m. Sun., CBS  
 Voice of Firestone, 8:30 p.m. Mon., Red  
 Vox Pop, 9:00 p.m. Tues., Red

Waltz Time, 9:00 p.m. Fri., Red  
 Watch the Fun go By, 9:00 and 12:00 p.m. Tues., CBS  
 We, The People, 7:30 p.m. Thurs., CBS  
 Your Hit Parade, 10:00 p.m. Sat., CBS  
 Your Hollywood Parade, 10:00 p.m. Wed., Red  
 Zenith Foundation, 10:00 p.m. Sun., CBS

**SINGERS**

Stuart Allen, 10:00 p.m. Sat., CBS  
 Gene Austin, 6:00 p.m. Sun., CBS  
 Kenny Baker, 7:00 and 11:30 p.m. Sun., Red  
 Morton Bowe, 5 p.m. Sun., CBS  
 Henry Burr, 9:00 and 11:00 p.m. Sat., Blue  
 Rachel Carlay, 9:00 p.m. Sun., Red  
 John Carter, 8 p.m. Sun., Red  
 Buddy Clark, 8 p.m. Mon., Blue; 9:30 p.m. Wed.,  
 CBS  
 Jerry Cooper, 9:00 p.m. Fri., CBS  
 Alice Cornett, 10:00 p.m. Fri., CBS  
 Richard Crooks, 8:30 p.m. Mon., Red  
 Bing Crosby, 10:00 p.m. Thurs., Red  
 Frank Crumit, 10:00 p.m. Fri., CBS  
 Jean Dickenson, 9:30 p.m. Sun., Red  
 Mary Eastman, 9:30 p.m. Sat., CBS  
 Wilbur Evans, 7:00 p.m. Sun., CBS  
 Jack Fulton, 7:00 and 11:00 p.m. Mon. through Fri.,  
 CBS  
 Freddie Gibson, 10:00 p.m. Sat., CBS; 8 p.m. Mon.,  
 Blue  
 Julie Gibson, 5:30 and 11 p.m. Sun., CBS  
 Harriet Hillard, 7:30 p.m. Sun., Blue  
 Al Jolson, 8:30 and 11:30 p.m. Tues., CBS  
 Alan Jones, 9 p.m. Thurs., Red  
 Reed Kennedy, 10:00 p.m. Fri., CBS  
 Dorothy Lamour, 8:00 p.m. Sun., Red  
 Rosemary Lane, 10:00 p.m. Wed., Red  
 Frances Langford, 9:00 p.m. Fri., CBS  
 Pierre Le Kreeun, 9:00 p.m. Sun., Red  
 Lullaby Lady, 10:00 p.m. Mon., Red  
 Lulu Belle, 9:00 and 11:00 p.m. Sat., Blue  
 Jeanette MacDonald, 7:00 p.m. Sun., CBS  
 Smiling Ed McConnell, 5:30 p.m. Sun., Blue  
 Lucille Manners, 8:00 p.m. Fri., Red  
 Tony Martin, 8:00 and 10:30 p.m. Mon., Red  
 Frank Muinn, 9:30 p.m. Sun., Red; 9:00 p.m. Fri., Red  
 Jane Pickens, 9:30 p.m. Wed., CBS  
 Dick Powell, 10:00 p.m. Wed., Red  
 Martha Raye, 8:30 and 11:30 p.m. Tues., CBS  
 Jane Rhodes, 9:30 p.m. Tues., Red  
 Kate Smith, 8:00 and 11:15 p.m. Thurs., CBS  
 Margaret Speaks, 8:30 p.m. Mon., Red  
 Marion Talley, 5:00 p.m. Sun., Red  
 Lawrence Tibbett, 9:00 p.m. Wed., CBS  
 Virginia Verrill, 8:30 p.m. Sat., Red

**TALKS**

Dale Carnegie, 10:45 p.m. Tues., Red  
 Bonke Carter, 6:30 and 8:45 p.m. daily, CBS  
 Jimmy Fidler, 10:30 p.m. Tues., Fri., Red  
 Gabriel Heatter, 7:30 and 10:30 p.m. Thurs., CBS  
 John B. Kennedy, 8:00 p.m. Sun., Blue  
 Geo. McCall, 7:15 and 11:15 p.m. Tues., Thurs., CBS  
 Harriet Parsons, 8:30 p.m. Wed., Blue  
 Robert L. Ripley, 8:00 and 12:00 p.m. Sat., Red  
 Deems Taylor, 9:00 p.m. Wed., CBS; 8:30 and 11:30  
 p.m. Fri., CBS  
 Lowell Thomas, 6:45 p.m. Mon. through Fri., Blue  
 Dorothy Thompson, 10:45 p.m. Fri., Red; 7:30 p.m.  
 Tues., Blue  
 Walter Winchell, 9:30 and 11:15 p.m. Sun., Blue

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

### 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 parentheses 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.

<p><b>Second Column Symbols</b></p> <p>a Verifies reception for return postage.</p> <p>b Verifies only occasionally.</p> <p>c Does not verify.</p> <p>d Verification 10c; letter 25c.</p> <p>h Sends own station stamp for 10c.</p> <p>i Sends own station stamp for 5c.</p> <p>j Sends own station stamp for postage.</p> <p>k Has no stamps.</p> <p>m Verifies for 5c.</p>	<p>n Weather or time only.</p> <p>z No information available.</p> <p><b>Fourth Column Symbols</b></p> <p>B National "Blue" network.</p> <p>C Columbia network.</p> <p>D Day time only.</p> <p>Dn Day time with occasional evening hours.</p> <p>F Canadian Brdcastg. Corp.</p> <p>M Mutual Brdcastg. Sys.</p> <p>N National "Red" and "Blue" networks.</p> <p>P Has construction permit only.</p>	<p>R National "Red" network.</p> <p>S Sunday only.</p> <p>Sy Synchronized.</p> <p>X Has permit to increase power.</p> <p>Y Has permit to change location.</p> <p>Z Has permit to change frequency.</p> <p>a-b-c. Small letters show stations using same transmitter.</p> <p>1-2-3. Figures denote stations sharing time.</p> <p>.... No information.</p>
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The sign-on and sign-off time of stations is shown in Eastern Standard Time. "ss" means "sunset."

### 540 kcys. (555.2)

CJRM	ak	1000	F	Regina, Sask.	-9:30 am—1:30 am
ZNS	ak	400	....	Nassau, Bahamas	-1:30 pm—9:30 pm

### 550 kcys. (545.1)

<del>CFNB</del>	ak	500	F (1)	Fredericton, N. B.	-7:00 am—11:00 pm
KFUO	ak	500	2 (1)	St. Louis, Mo.	-8:00 am—Midnight
KFYR	ak	1000	N (5)	Bismarck, N. Dak.	-8:00 am—1:00 am
KOAC	ak	1000		Corvallis, Ore.	-Noon—Midnight
KSD	ak	1000	2R (5)	St. Louis, Mo.	
KTSA	ak	1000	C (5)	San Antonio, Tex.	
<del>WDEV</del>	ak	500	D	Waterbury, Vt.	
<del>WGR</del>	ak	1000	C (5)	Buffalo, N. Y.	-7:00 am—midnight
<del>WKRC</del>	ak	1000	C (5)	Cincinnati, Ohio	-6:30 am—....
<del>WSVA</del>	ak	500	D	Harrisonburg, Va.	
XEFC	ak	100	....	Merida, Yuc.	

### 560 kcys. (535.4)

KFDM	ak	500	(1) N	Beaumont, Texas	-8:30 am—2:00 am
KLZ	ak	1000	C (5)	Denver, Colo.	-10:00 am—4:00 am
KSFO	ak	1000	C (5)	San Francisco, Cal.	-6:00 am—....
KWTO	ak	5000	D	Springfield, Mo.	-7:00 am—midnight
<del>WFIL</del>	ak	1000	BM	Philadelphia, Pa.	-6:00 am—4:00 am
<del>WIND</del>	ak	1000	(5)	Gary, Ind.	-7:00 am—midnight
<del>WIS</del>	ak	1000	N (5)	Columbia, S. C.	-6:00 am—midnight
<del>WQAM</del>	ak	1000	C	Miami, Fla.	

### 570 kcys. (526.0)

CMCY	ak	5000	X	Havana, Cuba	
<del>KGKO</del>	ak	250	CXY(1)	Wichita Falls, Tex.	
KMTR	ak	1000		Los Angeles, Calif.	-9:00 am—3:00 am
KVI	ak	1000	C (5)	Tacoma, Wash.	
<del>WKBN</del>	ak	500	C1	Youngstown, Ohio	
<del>WMCA</del>	ak	1000		New York, N. Y.	-6:45 am—....
<del>WNAX</del>	ak	1000	C (5)	Yankton, S. Dak.	-9:00 am—11:00 pm
<del>WOSU</del>	ak	750	I (1)	Columbus, Ohio	-7:00 am—1:00 am
<del>WSYR</del>	ak	1000	B (WSYU)	Syracuse, N. Y.	-7:30 am—1:00 am
WWNC	ak	1000	N	Asheville, N. C.	

### 580 kcys. (516.9)

CFPR	ak	50	....	Prince Rupert, B. C.	-8:00 am—midnight
CHRC	ak	100	....	Quebec, P. Q.	-8:00 am—midnight
CKCL	ak	100	F	Toronto, Ont.	-8:00 am—midnight
CKUA	ak	500	F	Edmonton, Alta.	
KMJ	ak	1000	N	Fresno, Calif.	-10:00 am—3:00 am



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

KSAC	ak	500	2 (1)	Manhattan, Kans.	-10:30 am-6:30 pm
WCHS	ak	500	C (1)	Charleston, W. Va.	
WDBO	ak	1000	C	Orlando, Fla.	-7:00 am-midnight
WIBW	ak	1000	2C (5)	Topeka, Kans.	-6:00 am-...
WILL	ak	1000	D	Urbana, Ill.	-9:00 am-ss
WTAG	ak	1000	R	Worcester, Mass.	-7:30 am-1:00 am
XELO	ak	10000	.....	Tijuana, B. Cfa.	-
XEMU	z	250	.....	Piedras Negras, Coah.	

**590 kcys. (508.2)**

KHQ	ak	1000	R (5)	Spokane, Wash.	
WEEL	ak	1000	C (5)	Boston, Mass.	-6:45 am-.....
WKZO	ak	1000	BDX	Kalamazoo, Mich.	
WOW	ak	1000	R (5)	Omaha, Nebr.	-7:00 am-3:30 am

**600 kcys. (499.7)**

CFCF	ak	500	BF	Montreal, P. Q.	
CJOR	ak	500	.....	Vancouver, B. C.	-7:45 am-1:00 am
CMQ	ak	25000	.....	Havana, Cuba	
FON	ad	250	609	St. Pierre, Miquelon	-.....
KFSD	ak	1000	B	San Diego, Calif.	
WCAO	ak	500	C (1)	Baltimore, Md.	
WICQ	ak	500	BM (1)	Bridgeport, Conn.	-6:00 am-1:00 am
WMT	ak	1000	BM (5)	Cedar Rapids, Iowa	-6:30 am-1:00 am
WREC	ak	1000	C (5)	Memphis, Tenn.	-7:30 am-1:00 am
XET	ak	5000	.....	Monterrey, N. L.	-.....

**610 kcys. (491.5)**

KFRC	c	1000	M (5)	San Francisco, Cal.	
WCLE	ak	500	DM	Cleveland, Ohio.	-6:45 am-ss
WDAF	ak	1000	R (5)	Kansas City, Mo.	-7:30 am-1:00 am
WLBZ	ak	1000	N(WMBF)	Miami, Fla.	
WIP	ak	1000	.....	Philadelphia, Pa.	-7:00 am-1:00 am
XEXM	z	500	2	Mexico City, D. F.	-.....
XEYO	z	500	2	Mexico City, D. F.	-.....

**620 kcys. (483.6)**

KGW	ak	1000	R (5)	Portland, Ore.	-9:00 am-2:00 am
KTAR	ak	1000	N	Phoenix, Ariz.	-9:00 am-1:15 am
TIPG	z	2000	625	San Jose, Costa Rica	
WFLA	ak	1000	Na (5)	Clearwater, Fla.	-7:00 am-1:00 am
WHJB	ak	250	CD	Greensburg, Pa.	-8:00 am-5:00 pm
WLBZ	ak	500	CM (1)	Bangor, Maine	
WSUN	ak	1000	Na (5)	St. Petersburg, Fla.	-7:00 am-1:00 am
WTMJ	ak	1000	N (5)	Milwaukee, Wis.	-7:15 am-1:30 am

**630 kcys. (475.9)**

CFGO	ak	100	F	Chatham, Ont.	-8:00 am-10:30 pm
CFGY	ak	1000	F	Charlottetown, P.E.I.	-9:00 am-11:00 pm
CJRC	ak	500	F (1)	Winnipeg, Man.	-8:30 am-2:00 am
CKOV	ak	100	F	Kelowna, B. C.	-11:00 am-1:30 am
CMCD	ak	250	.....	Havana, Cuba	-10:00 am-11:30 pm
KFRU	ak	500	1 (1)	Columbia, Mo.	-7:00 am-9:30 pm
KGFX	ak	200	D	Pierre, S. Dak.	
WGFB	ak	500	N1 (1)	Evansville, Ind.	
WMAL	ak	250	B (5)	Washington, D. C.	-6:30 am-2:00 am
WPRO	ak	500	C (1)	Providence, R. I.	-7:00 am-1:00 am
XEZ	z	500	.....	Merida, Yuc.	
.....	z	10000	P	Havana, Cuba	

**640 kcys. (468.5)**

KFI	ak	50000	R	Los Angeles, Calif.	-9:45 am-3:00 am
WGAN	z	500	DP	Portland, Maine	
WHKC	ak	500	.....	Columbus, Ohio	-6:30 am-8:15 pm
WOI	ak	5000	D	Ames, Iowa	
XEBX	z	250	.....	Sabinas, Coah.	
YSS	ak	.....	.....	San Salvador, E. S.	

**650 kcys. (461.3)**

TIX	z	.....	.....	San Jose, C. R.	
WSM	ak	50000	MN	Nashville, Tenn.	-7:30 am-1:00 am

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

660 kcys. (454.3)

WAAW ak 500 D Omaha, Nebr. —7:00 am—ss  
 -WEAF ak 50000 R New York, N. Y. —7:30 am—1:00 am  
 XEAL z 1000 Mexico City, D. F.  
 XEAO ak 250 Mexicali, B. Cfa.

670 kcys. (447.5)

-WMAQ ak 50000 R Chicago, Ill. —7:00 am—1:00 am

680 kcys. (440.9)

CMBQ z 5000 P Havana, Cuba —7:00 am—midnight  
 CMCG ak 1000 Havana, Cuba —7:00 am—ss  
 -KFEQ ak 2500 D St. Joseph, Mo. —11:00 am—3:00 am  
 -KPO ak 50000 R San Francisco, Cal.  
 VAS akn 2000 685 Glace Bay, N. S.  
 VOWR ck 500 681 St. John's, Nfld.  
 -WLAW z 1000 D Lawrence, Mass.  
 -WPTF ak 1000 N (5) Raleigh, N. C. —6:30 am—11:00 pm

690 kcys. (434.5)

-CFRB ak 10000 C Toronto, Ont. —8:00 am—midnight  
 CJCJ ak 100 F Calgary, Alta. —9:30 am—1:00 am

700 kcys. (428.3)

-WLW ak 500000 MN (W8XO) Cincinnati, O. —5:45 am—1:30 am

710 kcys. (422.3)

KIRO ak 1000 C Seattle, Wash. —9:00 am—5:00 am  
 -KMPC ak 500 Beverly Hills, Calif. —9:00 am—4:00 am  
 -WOR ak 50000 M Newark, N. J.

720 kcys. (416.4)

CMK ak 3000 Havana, Cuba  
 -WGN ak 50000 M Chicago, Ill.  
 XEH ak 250 Monterrey, N. L. —10:00 am—9:00 pm

730 kcys. (410.7)

CFPL ak 100 F London, Ont. —9:00 am—3:00 am  
 CJCA ak 1000 F Edmonton, Alta. —9:00 am—2:00 am  
 -CKAC ak 5000 C Montreal, P. Q. —7:30 am—1:00 am  
 CKPR ak 100 F Fort William, Ont. —9:00 am—11:00 pm  
 CMCL z 10000 P Havana, Cuba  
 -XEPN ak 100000 Piedras Negras, Coah. —5:45 am—  
 XERB z 100000 Rosarito Bch., B. Cfa.

740 kcys. (405.2)

KMMJ ak 1000 D Clay Center, Nebr. —6:00 am—  
 KTRB ak 250 Modesto, Calif. —9:00 am—8:30 pm  
 -WHEB ak 250 D Portsmouth, N. H.  
 -WSB ak 50000 R Atlanta, Ga. —6:55 am—1:00 am

750 kcys. (399.8)

CMBL z 2500 Havana, Cuba —8:00 am—12:15 am  
 KGU aj 2500 N Honolulu, Hawaii —11:30 am—4:30 am  
 -WJR ak 50000 C Detroit, Mich. —5:45 am—2:00 am  
 XEAA ak 200 Mexicali, B. Cfa.  
 XEAM z 25 Matamoros, Tams.

760 kcys. (394.5)

CMHX ak 200 Cienfuegos, Cuba

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KXA	ak	250	(.5)X	Seattle, Wash.	—6:00 pm
WBAL	ak	2500	BMSy	Baltimore, Md.	—9:00 pm—1:00 am
WEW	ak	1000	D	St. Louis, Mo.	—8:00 am—ss
WJZ	ak	50000	BSy	New York, N. Y.	—7:30 am—1:00 am
XEOK	ak	2500	.....	Tijuana, B. Cfa.	—All night station

### 770 keys. (389.4)

CMBF	z	10000	.....	Havana, Cuba	
KFAB	ak	10000	CSy	Lincoln, Nebr.	—7:00 am—1:00 am
WBBM	ak	50000	CSy	Chicago, Ill.	

### 780 keys. (384.4)

CHWK	dk	100	F	Chilliwack, B. C.	—11:00 am—1:15 am
CKSO	ak	1000	F	Sudbury, Ont.	—9:00 am—midnight
CMJK	ak	250	.....	Camaguey, Cuba	—11:00 am—10:00 pm
KEHE	ak	1000	(5)	Los Angeles, Calif.	
KFDY	ak	1000	D	Brookings, S. Dak.	—1:30 pm—3 pm
KFQD	ck	250	.....	Anchorage, Alaska	—11:00 pm—5:00 am
KGHL	ak	1000	N (5)	Billings, Mont.	—10:00 am—1:00 am
KWLK	z	250	DP	Longview, Wash.	
WEAN	ak	1000	BM (5)	Providence, R. I.	—6:00 am—.....
WMC	ak	1000	R (5)	Memphis, Tenn.	—7:45 am—1:00 am
WTAR	ak	1000	N	Norfolk, Va.	
XEN	z	1000	.....	Mexico City, D. F.	

### 790 keys. (379.5)

CMGH	ak	500	.....	Matanzas, Cuba	—10:00 am—3:00 am
KGO	ak	7500	B	San Francisco, Cal.	—7:00 am—1:00 am
KOAM	z	1000	DN	Pittsburg, Kans.	
WGY	ak	50000	R	Schenectady, N. Y.	—7:00 am—1:00 am

### 800 keys. (374.8)

HIX	ak	800	.....	Trujillo, D. R.	
WBAP	ak	50000	Na	Fort Worth, Texas	—6:45 am—midnight
WFAA	ak	50000	Na	Dallas, Texas	—9:00 am—12:30 am
WTBO	ak	250	D	Cumberland, Md.	—8:30 am—ss

### 810 keys. (370.2)

CMCF	ak	600	X	Havana, Cuba	
WCCO	ak	50000	C	Minneapolis, Minn.	—7:30 am—1:00 am
WNYC	ak	1000	D	New York, N. Y.	—7:00 am—7:00 pm
XEBZ	ad	100	.....	Mexico City, D. F.	—.....
XEDF	z	100	.....	Nuevo Laredo, Tams.	—11:00 am—8:15 pm

### 820 keys. (365.6)

CMHW	ak	100	.....	Santa Clara, Cuba	
WHAS	ak	50000	C	Louisville, Ky.	—6:45 am—.....
XEBG	z	1000	.....	Tijuana, B. Cfa.	

### 830 keys. (361.2)

CMJX	ak	500	.....	Camaguey, Cuba	—9:00 am—11:30 pm
KOA	ak	50000	R	Denver, Colo.	—9:00 am—2:00 am
WEU	ak	1000	D	Reading, Pa.	—8:00 am—5:00 pm
WHDH	ak	1000	Dn	Boston, Mass.	
WRUF	ak	5000	Dn	Gainsville, Fla.	—7:00 am—6:30 pm

### 840 keys. (356.9)

CBL	ak	50000	F	Toronto, Ont.	
CFQC	ak	1000	F	Saskatoon, Sask.	
VOGY	ak	400	.....	St. John's, Nfld.	
XERA	ck	250000	.....	Villa Acuna, Coah.	—All night station

### 850 keys. (352.7)

CMCM	ak	.....	.....	Havana, Cuba	—8:00 am—midnight
KIEV	ak	250	D	Glendale, Calif.	
WESG	ak	1000	CD	Elmira, N. Y.	—7:30 am—6:00 pm

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

-WKAR ak 1000 D E. Lansing, Mich. —7:00 am—5:00 pm  
 -WWL ak 10000 CX New Orleans, La. —6:30 am—1:00 am

### 860 kcys. (348.6)

-WABC ak 50000 C (WBOQ) New York, N. Y. —7:30 am—1:00 am  
 -WHB ak 1000 DM Kansas City, Mo.  
 -XEMO ak 5000 .... Tijuana, B. Cfa. —9:45 am—3:00 am  
 -XENC z 50 .... Mexico City, D. F.

### 870 kcys. (344.6)

-WENR ak 50000 Ba Chicago, Ill. —Noon—midnight  
 -WLS ak 50000 Ba Chicago, Ill. —6:30 am—3:00 pm  
 -XEFB ak 200 .... Monterrey, N. L.  
 -XEJW z 500 .... Mexico City, D. F.

### 880 kcys. (340.7)

-CBO ak 1000 F Ottawa, Ont. —10:30 am—midnight  
 -CFJC ak 1000 F Kamloops, B. C. —12:30 pm—1:15 am  
 -CMW ak 1400 X Havana, Cuba —7:00 am—midnight  
 -KFKA ak 500 2M (1) Greeley, Colo. —7:30 am—1:00 am  
 -KLY ak 1000 .... Oakland, Calif. —10:30 am—2:30 am  
 -KPOF ak 1000 2 Denver, Colo.  
 -TIEP ak 1000 .... San Jose, Costa Rica  
 -WCOC ak 500 CX (1) Meridian, Miss.  
 -WGBI ak 500 CI (1) Scranton, Pa. —12:30 pm—10:30 pm  
 -WOAN ak 500 1 (1) Scranton, Pa. —12:30 pm—10:00 pm  
 -WRNL ak 500 D Richmond, Va. —7:30 am—ss  
 -WSUI ak 500 (1) Iowa City, Iowa —10:00 am—11:00 pm

### 890 kcys. (336.9)

-KARK ak 500 N (1) Little Rock, Ark. —7:00 am—1:00 am  
 -KFNF ak 500 2 (1)X Shenandoah, Iowa —6:30 am—1:00 am  
 -KFPY ak 1000 C (5) Spokane, Wash. —9:50 am—3:00 am  
 -KUSD ak 500 2 Vermillion, S. Dak.  
 -WBAA ak 500 (1) W. Lafayette, Ind. —Noon—6:00 pm  
 -WGST ak 1000 C (5) Atlanta, Ga.  
 -WJAR ak 1000 R (5) Providence, R. I. —7:30 am—1:00 am  
 -WMMN ak 500 C (1) Fairmont, W. Va. —7:00 am—1:00 am  
 -XEK ak 100 .... Mexico City, D. F.  
 -XEW ak 50000 .... Mexico City, D. F.

### 900 kcys. (333.1)

-KGBU ak 500 X Ketchikan, Alaska —.....—4:00 am  
 -KHJ ak 1000 M (5) Los Angeles, Calif. —9:30 am—1:00 am  
 -KSEI ak 250 (1) Pocatello, Idaho —7:00 am—1:00 am  
 -WBEN ak 1000 R (5) Buffalo, N. Y. —6:00 am—ss  
 -WELI ak 500 D New Haven, Conn. —6:30 am—ss  
 -WFMD ak 500 D Frederick, Md. —6:45 am—1:00 am  
 -WJAX ak 1000 N (5) Jacksonville, Fla. —7:45 am—1:00 am  
 -WKY ak 1000 N (5) Oklahoma City, Ok. —9:00 am—2:00 pm  
 -WLBL ak 5000 D Stevens Point, Wis. —8:00 am—5:45 pm  
 -WTAD ak 1000 D Quincy, Ill.

### 910 kcys. (329.6)

-GBF ak 50000 FN Montreal, P. Q. —.....—1:00 am  
 -GKY ak 15000 F Winnipeg, Man. —8:30 am—1:00 am  
 -CIAT ak 1000 F Trail, B. C. —10:00 am—2:00 am  
 -XENT ak 150000 .... Nuevo Laredo, Tams.

### 920 kcys. (325.9)

-CMX ak 1000 X Havana, Cuba —8:00 am—1:00 am  
 -KFEL ak 500 Ma Denver, Colo. —8:00 am—2:30 am  
 -KOMO ak 1000 R (5) Seattle, Wash.  
 -KPRC ak 1000 R (5) Houston, Texas  
 -KVOD ak 500 Ba Denver, Colo.  
 -WAAF ak 1000 D Chicago, Ill. —6:00 am—ss  
 -WORL ak 500 D Boston, Mass. 7A 76-30P  
 -WPEN ak 1000 2 Philadelphia, Pa.

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WRAX	ak	1000	2	Philadelphia, Pa.	—
WSPA	ak	1000	D	Spartanburg, S. C.	—6:00 am—12:30 am
WWJ	ak	5000	R	Detroit, Mich.	—6:00 am—

### 930 keys. (322.4)

CFAC	ak	1000	F	Calgary, Alta.	—9:00 am—2:00 am
CFCH	ak	100	F	North Bay, Ont.	
CFLC	ak	100	....	Prescott, Ont.	—7:00 am—10:00 pm
CHNS	ak	1000	F	Halifax, N. S.	—7:30 am—11:00 pm
CKPC	ak	100	F	Brantford, Ont.	
KMA	ak	1000	(5)	Shenandoah, Iowa	—6:00 am—
KROW	ak	1000	....	Oakland, Calif.	—9:00 am—5:00 am
WBRC	ak	1000	R(5)	Birmingham, Ala.	—8:00 am—12:30 am
WDBJ	ak	1000	C(5)	Roanoke, Va.	—7:00 am—midnight
XEBH	ak	500	....	Hermosillo, Son.	—1:00 pm—midnight

### 940 keys. (319.0)

KOIN	ak	1000	C(5)	Portland, Ore.	
VOAS	ak	100	....	St. John's, Nfld.	
WAAT	ak	500	D	Jersey City, N. J.	—6:30 am—6:00 pm
WAVE	ak	1000	N	Louisville, Ky.	—8:00—1:00 am
WCSH	ak	1000	R(2.5)	Portland, Maine	—8:00 am—midnight
WDAY	ak	1000	N(5)	Fargo, N. Dak.	—6:00 am—1:00 am
WHA	ak	5000	D	Madison, Wis.	—9:00 am—5:30 pm
WICA	ak	250	D	Ashtabula, Ohio	
XEFO	ak	5000	....	Mexico City, D. F.	

### 950 keys. (315.6)

CJOC	ak	100	F	Lethbridge, Alta.	—9:00 am—1:00 am
CMBC	z	10000	....	Havana, Cuba	—6:55 am—midnight
CRCK	ak	1000	F	Quebec, P. Q.	
KFWB	ak	1000	(5)	Hollywood, Calif.	—9:30 am—4:00 am
KMBC	ak	1000	C(5)	Kansas City, Mo.	—6:55 am—1:00 am
WHAL	z	500	DP	Saginaw, Mich.	
WRC	ak	500	RX(1)	Washington, D. C.	—6:00 am—

### 960 keys. (312.3)

CERN	ak	100	F	Edmonton, Alta.	—9:30 am—2:00 am
CHNC	ak	1000	F	New Carlisle, P. Q.	—7:30 am—11:00 pm
CMKS	z	....	....	Guantanamo, Cuba	
CRCY	ck	100	F	Toronto, Ont.	
XEAW	c	100000	....	Reynosa, Tams.	—5:45 am—

### 970 keys. (309.1)

CMBY	z	150	....	Havana, Cuba	—8:55 am—11:00 pm
KJR	ak	5000	B	Seattle, Wash.	
WGFL	ak	5000	N	Chicago, Ill.	
WIBG	ak	100	D	Glenside, Pa.	

### 980 keys. (306.0)

KDKA	bk	50000	B	Pittsburgh, Pa.	
XEAC	ak	1000	....	Tijuana, B. Cfa.	
XEFE	z	250	z	Nuevo Laredo, Tams.	

### 990 keys. (302.8)

WBZ	ak	50000	BSy	Boston, Mass.	—6:00 am—1:00 am
WBZA	ak	1000	BSy	Springfield, Mass.	—6:00 am—1:00 am
XEAF	ak	750	....	Nogales, Son.	
XES	ak	250	....	Tampico, Tams.	

### 1000 keys. (299.8)

CMBZ	ak	500	(1) X	Havana, Cuba	—7:45 am—midnight
KFVD	ak	1000	Dn	Los Angeles, Calif.	—9:00 am—8:15 pm
VOCM	z	200	1006	St. John's, Nfld.	

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

—WHO ak 5000 R Des Moines, Iowa —8:00 am—2:00 am  
 —XEBI ak 25 Aguascalientes, Ags.

### 1010 keys. (296.9)

CHML ak 100 F Hamilton, Ont. —8:00 am—midnight  
 CKCK ak 100 I Vancouver, B. C.  
 CKCK ak 1000 F Regina, Sask. —9:30 am—2:00 am  
 CKCO ak 100 F Ottawa, Ont. —Noon—11:30 pm  
 CKIC ak 50 Wolfville, N. S.  
 CKWX ak 100 I Vancouver, B. C. —Noon—4:00 am  
 CMJA ak 300 Camaguey, Cuba  
 KGGF ak 1000 2M Coffeyville, Kans.  
 KQW ak 1000 M San Jose, Calif. —9:30 am—3:00 am  
 —WHN ak 1000 (5) New York, N. Y.  
 —WNAD ak 1000 2 Norman, Okla. —3:00 pm—10:15 pm  
 —WNOX ak 1000 C (5) Knoxville, Tenn. —6:30 am—2:00 am  
 XEFQ z 50 Cananea, Son.  
 XEU ak 250 Veracruz, Ver. —8:00 am—1:00 am

### 1020 keys. (293.9)

—KYW ak 10000 R Philadelphia, Pa. —7:05 am—10:00 pm  
 —WDZ ak 250 D Tuscola, Ill. —7:00 am—6:00 pm  
 XEJ ak 1000 Juarez, Chih.

### 1030 keys. (291.1)

—CFCN ak 10000 F Calgary, Alta. —9:00 am—1:30 am  
 CJBR z 1000 F Rimouski, P. Q.  
 —CKLW ak 5000 M Windsor, Ont. —6:00 am—4:00 am  
 CMCK z Havana, Cuba  
 XEB ak 10000 Mexico City, D. F. —10:00 am—12:15 am

### 1040 keys. (288.3)

KRLD ak 10000 C Dallas, Texas. —7:00 am—1:00 am  
 KWJJ ak 500 Portland, Ore. —All night station  
 KYOS bk 250 D Merced, Calif.  
 —WTIC ah 50000 R Hartford, Conn. —6:00 am—

### 1050 keys. (285.5)

—CBM ak 5000 F Montreal, P. Q.  
 CMKD ak 250 Santiago, Cuba  
 KFBI ak 5000 Dn Abilene, Kans. —7:00 am—7:45 pm  
 —KNX ak 50000 C Los Angeles, Calif. —9:30 am—3:15 am 3,48  
 WEAU z 1000 D Eau Claire, Wis.  
 WGVA z 1000 DP Indianapolis, Ind.

### 1060 keys. (282.8)

—KTHS ak 10000 N Hot Springs, Ark. —9:00 am—ss  
 VOAC z 40 1065 St. John's, Nfld.  
 —WBAL ak 10000 BM Baltimore, Md. —6:00 am—9:00 pm  
 WJAG ak 1000 D Norfolk, Nebr. —7:30 am—ss  
 W3XJ z 100 P College Park, Md. —Midnight to 6:00 am

### 1070 keys. (280.2)

CMBX ak 500 Havana, Cuba  
 CMHA z 50 Sagua la Grande, Cuba  
 KJBS ak 500 San Francisco, Calif. —All night station  
 —WCAZ ak 100 D Carthage, Ill.  
 —WTAM ak 50000 R Cleveland, Ohio —6:00 am—midnight

### 1080 keys. (277.6)

—WBT ak 50000 C Charlotte, N. C. —6:30 am—midnight  
 WCBF ak 5000 Dnl Chicago, Ill.  
 —WBMI ak 5000 Dnl Chicago, Ill.  
 XEBA z 20 Guzman, Jal.  
 XEBK ak 100 Nuevo Laredo, Tams.  
 XEDP ak 500 Mexico City, D. F.

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1090 keys. (275.1)

-KMOX ak 5000 C St. Louis, Mo. -6:30 am-1:00 am

1100 keys. (272.6)

CBR ak 5000 F Vancouver, B. C.  
 KGDH ak 1000 DM Stockton, Calif. -9:00 am-ss  
 -KWKH ak 10000 C Shreveport, La. -7:30 am-1:00 am  
 -WBIL ak 5000 I New York, N. Y. *6:30 P*  
 -WPG ak 5000 CI Atlantic City, N. J. *8:30 P*  
 XEL z 250 Mexico City, D. F.

1110 keys. (270.1)

CMCJ ak 500 X Havana, Cuba  
 KSOO ak 2500 DnNX Sioux Falls, S. Dak. -7:00 am-6:45 pm  
 -WRVA ak 5000 CM Richmond, Va. -7:00 am-midnight

1120 keys. (267.7)

CHLP ak 100 F Montreal, P. O. -9:00 am-11:00 pm  
 CHSJ ak 500 F (1) St. John, N. B. -5:00 am-midnight  
 -CKOC ak 500 F (1) Hamilton, Ont.  
 CKX ak 1000 F Brandon, Man.  
 CMGF ak 250 Matanzas, Cuba.  
 CMKM ak 200 Manzanillo, Cuba  
 -CRCS ak 100 F Chicoutimi, P. O. -8:00 am-10:00 pm  
 KFLO ak 100 D Spokane, Wash.  
 KFSC ak 500 a (2.5) Los Angeles, Calif. -9:00 am-3:00 am  
 KRKD ak 500 a (2.5) Los Angeles, Calif. -All night station  
 KRSC ak 250 Seattle, Wash.  
 -KTBC z 1000 DP Austin, Texas  
 -WCOP ak 500 D Boston, Mass. -8:00 am-4:00 pm  
 -WDEL ak 250 R (5) Wilmington, Del. -9:00 am-11:00 pm  
 -WISN ak 250 C (1) Milwaukee, Wis. -8:00 am-1:00 am  
 -WJBO ak 500 B Baton Rouge, La. -7:45 pm-1:00 am  
 WTAW ak 500 College Sta., Tex.

1130 keys. (265.3)

CMJI ak 150 Ciego de Avila, Cuba -Noon-10:00 pm  
 -KSL ak 50000 C Salt Lake City, Ut. -8:30 am-3:00 am  
 -WJJD ak 20000 Dn Chicago, Ill. -6:45 am-6:45 pm  
 -WOV ak 1000 D New York, N. Y.  
 XEJP z 100 Mexico City, D. F. -.....

1140 keys. (263.0)

CMCW dk 500 Havana, Cuba  
 -KVOO ak 25000 NI Tulsa, Okla. -6:55 am-10 P  
 -WAPI ak 5000 CI Birmingham, Ala. *10 P*  
 -WSPR ak 500 DM Springfield, Mass. -7:00 am-5:45 pm

1150 keys. (260.7)

CMJF z 200 Camaguey, Cuba  
 -WHAM ak 50000 B Rochester, N. Y. -6:30 am-midnight  
 XEBP z 250 Durango, Dgo.  
 XEC ak 100 Tijuana, B. Cfa.  
 XEDW z 20 Minatitlan, Ver.

1160 keys. (258.5)

CMHJ ak 175 Cienfuegos, Cuba  
 CMKG z Santiago, Cuba  
 -WOWO ak 10000 BI Fort Wayne, Ind. -6:00 am-....  
 -WVVA ak 5000 CI Wheeling, W. Va.  
 XEAS ak 50 Saltillo, Coah.  
 XED ak 2500 Guadalajara, Jal. -Noon-midnight  
 XEFM z 20 Leon, Gto.  
 -XEP ak 500 Juarez, Chih. -9:00 am-2:00 am

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1170 keys. (256.3)

CMBS	ak	150	X	Havana, Cuba	—8:00 am—midnight
WCAU	ak	5000	C	Philadelphia, Pa.	—6:00 am—1:00 am
XEXX	z	1000	.....	Mexico City, D. F.	

1180 keys. (254.1)

CMJO	ak	50	.....	Ciego de Avila, Cuba	
KEX	ak	5000	B2	Portland, Ore.	
KOB	ak	10000	N2	Albuquerque, N. M.	—1:00 pm—11:00 pm
WDGY	ak	1000	CDn(5)	Minneapolis, Minn.	
WINS	ak	1000	.....	New York, N. Y.	
WMAZ	ak	1000	C	Macon, Ga.	—6:45 pm—7:00 pm
XEFA	z	500	.....	Tacuba, D. F.	

1190 keys. (252.0)

CMKX	z	.....	.....	Santiago, Cuba	
KTKC	ak	250	D	Visalia, Calif.	
VONF	ak	500	1195	St. John's, Nfld.	
WATR	ak	100	DXZ	Waterbury, Conn.	
WOAI	ak	5000	N	San Antonio, Tex.	—7:30 am—12:30 am
WSAZ	ak	1000	.....	Huntington, W. Va.	—6:00 am—7:00 pm

1200 keys. (249.9)

CFGP	z	100	.....	Grande Prairie, Alta.	
CHAB	ak	100	F	Moose Jaw, Sask.	—9:00 am—12:30 am
CKNX	dk	100	.....	Wingham, Ont.	—11:00 am—1:00 am
CKTB	ak	100	F	St. Catharines, Ont.	—9:30 am—11:30 pm
CMGO	ad	250	.....	Havana, Cuba	
KADA	ak	100	DM	Ada, Okla.	
KBTM	ak	100	D	Jonesboro, Ark.	
KDNC	z	100	(.25) P	Lewistown, Mont.	
KELO	z	100	N	Sioux Falls, S. Dak.	
KFJB	ak	100	(.25)	Marshalltown, Ia.	—7:00 am—10:00 pm
KFXD	ak	100	(.25)	Nampa, Idaho	—8:00 am—11:00 pm
KFXJ	ak	100	(.25)	Grand Junc., Colo.	
KGCI	z	100	DP	Coeur d'Alene, Idaho	
KGDE	c	100	(.25)	Fergus Falls, Minn.	—8:00 am—10:00 pm
KGEK	ak	100	.....	Sterling, Colo.	
KGFJ	ak	100	.....	Los Angeles, Calif.	—24 hours daily
KGHI	ak	100	(.25)	Little Rock, Ark.	—8:30 am—11:00 pm
KGVL	z	100	DP	Greenville, Texas	
KMLB	ak	100	(.25)	Monroe, La.	
KOOS	ak	100	(.25)	Marsh field, Ore.	—10:00 am—7:45 pm
KSUN	ak	100	(.25)	Lowell, Ariz.	—11:00 am—midnight
KVCV	ak	100	.....	Redding, Calif.	
KVEC	z	250	D	San Luis Obispo, Calif.	
KVOS	dk	100	M	Bellingham, Wash.	
KWG	ak	100	N	Stockton, Calif.	—10:00 am—3:00 am
KWNO	z	250	D	Winona, Minn.	
WABI	ak	100	(.25)	Bangor, Maine	
WAIM	ak	100	C	Anderson, S. C.	—6:00 am—10:00 pm
WAYX	ak	100	(.25)	Waycross, Ga.	
WBBZ	ak	100	M (.25)	Ponca City, Okla.	—8:00 am—10:00 pm
WBHP	ak	100	.....	Huntsville, Ala.	
WBNO	ak	100	2	New Orleans, La.	—1:00 pm to midnight
WCAT	ak	100	D	Rapid City, S. Dak.	—Noon—2:00 pm
WCAX	ak	100	(.25)	Burlington, Vt.	
WCLO	ak	100	(.25)	Janesville, Wis.	
WCPO	ak	100	(.25)	Cincinnati, Ohio	—7:00 am—11:30 pm
WDSM	z	100	P	Superior, Wis.	
WEST	ak	100	3 (.25)	Easton, Pa.	
WFAM	ak	100	4	South Bend, Ind.	
WFTC	ak	100	(.25)	Kinston, N. C.	
WHBC	ak	100	(.25)	Canton, Ohio	
WHBY	ak	100	(.25)	Green Bay, Wis.	
WIBX	ak	100	C (.25)	Utica, N. Y.	—5:30 am—1:00 am
WIL	ak	100	(.25)	St. Louis, Mo.	
WJBC	ak	100	5 (.25)	Bloomington, Ill.	—4:00 pm—8:30 pm
WJBL	ak	100	5	Decatur, Ill.	
WJBW	ak	100	2	New Orleans, La.	—All night station
WJNO	ak	100	C (.25)	W. Palm Beach, Fla.	—7:00 am—11:00 pm
WJRD	ak	250	D	Tuscaloosa, Ala.	
WKBO	ak	100	3 (.25)	Harrisburg, Pa.	—8:00 am—11:00 pm
WLVA	ak	100	(.25)	Lynchburg, Va.	—7:00 am—11:00 pm
WMFR	ak	100	D	High Point, N. C.	
WMPC	ak	100	(.25)	Lapeer, Mich.	



NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

-WOLS	z	100	D	Florence, S. C.	
WRBL	ak	100	(.25)	Columbus, Ga.	-8:00 am-10:30 pm
WSAL	z	250	D	Salisbury, Md.	
-WTHT	ak	100	M	Hartford, Conn.	-7:00 am-4:15 pm
WTOL	z	100	DP	Toledo, Ohio	
-WWAE	ak	100	8	Hammond, Ind.	
XEBU	z	50	.....	Chihuahua, Chih.	-.....

1210 kcys. (247.8)

CHLT	z	100	.....	Sherbrooke, P. Q.	
CJCS	ak	50	.....	Stratford, Ont.	-8:00 am-9:00 pm
CJCU	z	50	.....	Aklavik, N.W.T.	
CKBI	ak	100	F	Prince Albert, Sask.	-9:45 am-1:00 am
-CKCH	ak	100	F	Hull, P. Q.	-8:00 am-11:00 pm
CKMC	ak	50	.....	Cobalt, Ont.	
CMHI	ak	150	.....	Santa Clara, Cuba	
-KALB	ak	100	(.25)	Alexandria, La.	-7:00 am-ss
-KANS	ak	100	N	Wichita, Kans.	-7:30 am-midnight
KASA	c	100	.....	Elk City, Okla.	-7:00 am-8:00 pm
KDLR	ak	100	.....	Devils Lake, N. D.	-7:30 am-9:30 pm
KDON	z	100	M	Monterey, Calif.	
KFJI	ak	100	.....	Klamath Falls, Ore.	
KFOR	ak	100	CM(.25)	Lincoln, Nebr.	-8:00 am-11:15 pm
-KFPW	ak	100	.....	Fort Smith, Ark.	
KFVS	ak	100	5 (.25)	Cape Girardeau, Mo.	
-KFXM	ak	100	M2	San Bernardino, Cal.	-9:00 am-3:00 am
-KGLO	z	100	C (.25)	Mason City, Iowa	
KGY	ak	100	M	Olympia, Wash.	
KHBG	z	100	D	Okmulgee, Okla.	
-KIUL	ak	100	.....	Garden City, Kans.	-8:00 am-10:00 pm
-KLAH	ak	100	.....	Carlsbad, N. Mex.	
-KOCA	ak	100	(.25)	Kilgore, Texas	
KPFA	z	100	(.25)	Helena, Mont.	
KPPC	ak	100	2	Pasadena, Calif.	-10:00 am-12:30 am
KROY	ak	100	CD	Sacramento, Calif.	
-KVSQ	ak	100	M	Ardmore, Okla.	-8:00 am-11:00 pm
-KWTN	ak	100	.....	Watertown, S. Dak.	
-WALK	ak	100	.....	Zanesville, Ohio	-7:00 am-9:00 pm
WBAX	ak	100	.....	Wilkes-Barre, Pa.	
WBBL	ak	100	S	Richmond, Va.	
-WBLY	ak	100	D	Lima, Ohio	-6:00 am-5:15 pm
WBRB	ak	100	3	Red Bank, N. J.	
WCOL	ak	100	N	Columbus, Ohio	-7:00 am-11:00 pm
WGRW	ak	100	4	Chicago, Ill.	-11:00 am-7:00 pm
-WEBQ	ak	100	5 (.25)	Harrisburg, Ill.	
WEDC	ak	100	4	Chicago, Ill.	
-WFAS	ak	100	3	White Plains, N. Y.	
-WFOY	ak	100	(.25)	St. Augustine, Fla.	
-WGBB	ak	100	3	Freeport, N. Y.	
-WGCM	ak	100	(.25)	Gulfport, Miss.	
-WGNV	ak	100	3	Newburgh, N. Y.	-7:30 am-midnight
WGRM	ak	100	.....	Grenada, Miss.	
WHAI	z	250	DP	Greenfield, Mass.	
-WHBF	ak	100	(.25)	Rock Island, Ill.	-7:00 am-1:05 am
-WHBU	ak	100	(.25)	Anderson, Ind.	
-WIBU	ak	100	(.25)	Poynette, Wis.	
-WJBY	ak	100	(.25)	Gadsden, Ala.	-8:00 am-10:30 pm
WJEJ	ak	50	Dn(.1)	Hagerstown, Md.	
-WJIM	z	100	(.25)	Lansing, Mich.	-7:15 am-12:30 am
-WJTN	ak	100	B (.25)	Jamestown, N. Y.	
-WJW	ak	100	(.25)	Akron, Ohio	-8:00 am-10:30 pm
-WKOK	ak	100	.....	Sunbury, Pa.	-6:00 am-midnight
WLMU	z	100	P (.25)	Middlesboro, Ky.	
-WMFG	ak	100	(.25)	Hibbing, Minn.	-7:30 am-10:00 pm
WOMT	ak	100	.....	Manitowoc, Wis.	
WPAX	ak	100	D	Thomasville, Ga.	-8:00 am-6:00 pm
WSAY	z	100	D	Rochester, N. Y.	-7:00 am-4:30 pm
WSBC	ak	100	4 (.25)	Chicago, Ill.	-6:00 am-midnight
WSIX	ak	100	(.25)	Nashville, Tenn.	-7:00 am-1:00 am
WSNJ	z	100	D	Bridgeton, N. J.	
-WSOC	ak	100	N (.25)	Charlotte, N. C.	-7:00 am-midnight
WTAX	ak	100	.....	Springfield, Ill.	
XEAT	ak	250	.....	Parral, Chih.	-11:00 am-9:00 pm
XEE	ak	50	.....	Durango, Dgo.	
XEFV	ak	100	.....	Juarez, Chih.	
XETH	ak	100	.....	Puebla, Pue.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1220 keys. (245.8)

CMJE	z	50	.....	Camaguey, Cuba	
KFKU	ak	1000	a (5)	Lawrence, Kans.	-3:30 pm-7:30 pm
KTMS	z	500	B	Santa Barbara, Cal.	
KTW	ak	1000	S2	Seattle, Wash.	
KWSC	ak	1000	2 (5)	Pullman, Wash.	-9:45 am-12:30 am
-WCAD	ak	500	D	Canton, N. Y.	-12:30 pm-4:00 pm
-WCAE	ak	1000	MR (5)	Pittsburgh, Pa.	-7:00 am-2:30 am
-WDAE	ak	1000	C (5)	Tampa, Fla.	-7:30 am-?
WREN	ak	1000	Ba(5)	Lawrence, Kans.	-8:00 am-7:00 pm
XEBL	z	50	.....	Mazatlan, Sin.	
XEDA	z	200	.....	Gral. Anaya, D. F.	
XETF	ak	12	.....	Veracruz, Ver.	-11:00 am-1:00 am

1230 keys. (243.8)

CMCB	z	150	.....	Havana, Cuba	-8:00 am-11:00 pm
KGBX	ak	500	N	Springfield, Mo.	
-KGGM	ak	1000	.....	Albuquerque, N. M.	-9:30 am-11:30 pm
-KYA	ak	1000	(5)	San Francisco, Cal.	
-WFBM	ak	1000	C (5)	Indianapolis, Ind.	-7:30 am-1:00 am
-WNAC	ak	1000	R (5)	Boston, Mass.	-6:00 am-1:00 am
XEAZ	z	200	.....	Zacatecas, Zac.	
XEG	z	250	.....	Monterrey, N. L.	-.....

1240 keys. (241.8)

-CJCB	ak	1000	F	Sydney, N. S.	-7:00 am-11:00 pm
CMHB	z	50	.....	Sancti Spiritus, Cuba	
-KGCU	ak	250	I	Mandan, N. Dak.	
KLPM	ak	250	1XZ	Minot, N. Dak.	
KTAT	ak	1000	M	Fort Worth, Texas	
KTPI	ak	1000	.....	Twin Falls, Idaho	
-WKAQ	ak	1000	.....	San Juan, P. R.	-6:00 am-9:30 pm
-WXYZ	ak	1000	B	Detroit, Mich.	
XEKL	z	500	.....	Leon, Guan.	
XELA	z	50	.....	Saltillo, Coah.	
XEME	z	50	.....	Merida, Yuc.	-.....

1250 keys. (239.9)

CMCK	ak	150	.....	Santiago, Cuba	
KFOX	ak	1000	.....	Long Beach, Calif.	
KIT	ak	250	M (.5)	Yakima, Wash.	
KXOK	z	1000	P	St. Louis, Mo.	
-WAIR	ak	250	D	Winst.-Salem, N. C.	-6:00 am-ss
WCAL	ah	1000	2XZ	Northfield, Minn.	
WDSU	ak	1000	B	New Orleans, La.	-7:00 am-midnight
-WHBI	ak	1000	a (2.5)	Newark, N. J.	
WLB	ak	1000	2XZ	Minneapolis, Minn.	
-WNEW	ak	1000	a (2.5)	New York, N. Y.	-All night station
WTCN	ak	1000	B (5)	Minneapolis, Minn.	-7:00 am-midnight
XEAI	z	500	.....	Mexico City, D. F.	-.....
XEXH	z	250	.....	San Luis Pot., S.L.P.	

1260 keys. (238.0)

CMBD	ak	500	2X	Havana, Cuba	-7:00 am-midnight
CMC	z	150	2	Havana, Cuba	-8:00 am-midnight
KGVO	ak	1000	C	Missoula, Mont.	-9:00 am-1:00 am
KHSL	ak	250	.....	Chico, Calif.	
KOIL	ak	1000	BM(5)	Omaha, Nebr.	-6:00 am-.....
KPAC	ak	500	D	Port Arthur, Texas	-6:00 am-5:45 pm
-KRGV	ak	1000	N	Weslaco, Texas	-8:00 am-11:00 pm
KUOA	ak	5000	D	Siloam Spgs., Ark.	
-KVOA	ak	1000	.....	Tucson, Ariz.	
-WHIO	ak	1000	C (5)	Dayton, Ohio	-6:00 am-1:00 am
-WNBX	ak	500	CM(1)	Springfield, Vt.	
-WTOC	ak	1000	C	Savannah, Ga.	-7:00 am-midnight

1270 keys. (236.1)

CMHD	dk	250	.....	Caibarien, Cuba	
KGCA	ak	100	2D	Decorah, Iowa	-9:30 am-3:30 pm
KOL	ak	1000	M (5)	Seattle, Wash.	
-KVOR	ak	1000	C	Colo. Springs, Colo.	-9:00 am-1:00 am
-KWLC	ak	100	2D	Decorah, Iowa	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

WASH	ak	500	DaN	Grd. Rpds., Mich.	-6:30 am—midnight
WFBR	ak	500	R (1)	Baltimore, Md.	-7:00 am—midnight
WJDX	ak	1000	R (5)	Jackson, Miss.	
WOOD	ak	500	Na	Gd. Rapids, Mich.	-7:00 am—midnight
XEXB	ak	250	.....	Jalapa, Ver.	
XEXE	z	17	.....	Texcoco, D. F.	

1280 kcys. (234.2)

CMKO	z	.....	.....	Holguin, Cuba	
KFBB	ak	1000	C (5)	Great Falls, Mont.	
KLS	ak	250	.....	Oakland, Calif.	
WCAM	ak	500	1	Camden, N. J.	
WCAP	ak	500	1	Asbury Park, N. J.	
WDDP	ak	1000	C (5)	Chattanooga, Tenn.	-7:30 am—12:30 am
WIBA	ak	1000	N (5)	Madison, Wis.	
WORC	ak	500	C	Worcester, Mass.	-8:00 am—midnight
WRR	ak	500	M	Dallas, Texas	-8:00 am—midnight
WTNJ	ak	500	1	Trenton, N. J.	
XEMX	z	100	.....	Mexico City, D. F.	

1290 kcys. (232.4)

CMCU	ak	500	.....	Havana, Cuba	-6:55 am—1:00 am
KDYL	ak	1000	RX	Salt Lake City, Ut.	-8:00 am—3:00 am
KLCN	ak	100	D	Blytheville, Ark.	
KTRH	ak	1000	C (5)	Houston, Texas	
WEBC	ak	1000	N (5)	Duluth, Minn.	-8:00 am—1:00 am
WJAS	ak	1000	C (5)	Pittsburgh, Pa.	-7:30 am—12:30 am
WNBZ	ak	100	D	Saranac Lake, N. Y.	-9:30 am—ss
WNEL	ak	1000	(2.5)	San Juan, P. R.	-5:45 am—11:30 pm

1300 kcys. (230.6)

KALE	ak	1000	M	Portland, Ore.	
KFAC	ak	1000	.....	Los Angeles, Calif.	—All night station
KFH	ak	1000	C (5)	Wichita, Kans.	
WBBR	ak	1000	1	Brooklyn, N. Y.	
WEVD	ak	1000	1	New York, N. Y.	
WFAB	ak	1000	1	New York, N. Y.	
WFBC	ak	1000	N (5)	Greenville, S. C.	
WHAZ	ak	1000	1	Troy, N. Y.	-6:00 pm—midnight
WHBL	ak	250	.....	Sheboygan, Wis.	

1310 kcys. (228.9)

CHCK	ak	50	.....	Charlottetown, P.E.I.	
CJKL	ak	100	F	North Bay, Ont.	
CJLS	ak	100	.....	Yarmouth, N. S.	
CKCV	ak	100	F	Quebec, P. O.	-7:55 am—11:30 pm
KAND	z	100	D	Corsicana, Tex.	
KARM	z	100	C	Fresno, Calif.	
KCKN	ak	100	.....	Kansas City, Kans.	
KCRJ	ak	100	(.25)	Jerome, Ariz.	
KFPL	dk	100	(.25)	Dublin, Texas	-7:00 am—10:45 pm
KFXR	ak	100	(.25)	Okla. City, Okla.	-8:00 am—midnight
KFYO	ak	100	(.25)	Lubbock, Texas	-8:00 am—10:15 pm
KGEZ	ak	100	.....	Kalispell, Mont.	-9:00 am—11:00 pm
KGFV	ak	100	.....	Kearney, Nebr.	-7:00 am—10:00 pm
KHUB	ak	250	D	Watsonville, Calif.	
KINY	ak	100	XZ	Juneau, Alaska	
KPDN	ak	100	D	Pampa, Texas	
KRBA	z	100	DP	Lufkin, Texas	
KRMD	ak	100	(.25)	Shreveport, La.	
KROC	ak	100	(.25)	Rochester, Minn.	-7:00 am—12:15 am
KROA	ak	100	.....	Santa Fe, N. Mex.	
KRRV	z	250	D	Sherman, Texas	
KSRO	ak	250	D	Santa Rosa, Calif.	-11:00 am—9:00 pm
KSUB	ak	100	.....	Cedar City, Utah	
KTSM	ak	100	N(.25)	El Paso, Texas	-8:30 am—1:00 am
KVOL	ak	100	.....	Lafayette, La.	-7:00 am—ss
KVOX	z	100	(.25)	Moorhead, Minn.	
KWOC	z	100	DP	Poplar Bluff, Mo.	
KWOS	z	100	D	Jefferson City, Mo.	
KXRO	ak	100	M(.25)	Aberdeen, Wash.	-10:00 am—2:00 am
WAML	ak	100	(.25)	Laurel, Miss.	-8:00 am—8:00 pm
WBEO	ak	100	D	Marquette, Mich.	-10:30 am—5:30 pm

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

-WBOW	ak	100	N (.25)	Terre Haute, Ind.	-7:00 am—midnight
WBRE	ak	100	N	Wilkes-Barre, Pa.	
WBRK	z	100	C (.25)	Pittsfield, Mass.	
-WCLS	ak	100		Joliet, Ill.	-8:00 am—9:30 pm
-WCMI	ak	100	(.25)	Ashland, Ky.	-6:00 am—11:30 pm
WDAH	ak	100	S (.25)	El Paso, Texas	-11:30 am—10:30 pm (Sun. only)
WEBR	ak	100	B (.25)	Buffalo, N. Y.	-7:00 am—midnight
-WEMP	ak	100	D	Milwaukee, Wis.	-7:30 am—ss
-WEXL	ak	50		Royal Oak, Mich.	-8:00 am—4:00 am
WFBG	ak	100	3	Altoona, Pa.	-7:00 am—10:30 pm
-WFDF	ak	100		Flint, Mich.	-6:00 am—midnight
WGAU	z	100	(.25)P	Athens, Ga.	
-WGH	ak	100	(.25)	Newport News, Va.	-7:00 am—midnight
-WGTM	z	100	D	Wilson, N. C.	
-WHAT	ak	100	4	Philadelphia, Pa.	
WJAC	ak	100	3 (.25)	Johnstown, Pa.	
-WLAK	z	100		Lakeland, Fla.	
WLBC	ak	100	(.25)	Muncie, Ind.	-7:00 am—midnight
WLNB	ak	100	M	Laconia, N. H.	
-WMBO	ak	100		Auburn, N. Y.	
-WMFF	ak	100	(.25)	Plattsburg, N. Y.	
WNBH	ak	100	M (.25)	New Bedford, Mass.	-7:30 am—11:15 pm
-WOL	ak	100	MXZ	Washington, D. C.	
-WRAW	ak	100		Reading, Pa.	-7:00 am—11:00 pm
-WROL	ak	100	N (.25)	Knoxville, Tenn.	
WSAJ	ak	100		Grove City, Pa.	
WSGN	ak	100	B (.25)	Birmingham, Ala.	-8:00 am—midnight
-WSJS	ak	100	C	Winston-Salem, N. C.	-8:00 am—10:00 pm
-WTAL	ak	100		Tallahassee, Fla.	-8:00 am—midnight
WTEL	ak	100	4	Philadelphia, Pa.	-8:00 am—midnight
-WTJS	ak	100	(.25)	Jackson, Tenn.	
-WTRC	ak	100	(.25)	Elkhart, Ind.	-7:00 am—10:30 pm
XEAG	z	10		Cordoba, Ver.	
XEBO	z	25		Irapuato, Guan.	
XEFW	ak	300		Tampico, Tams.	-11:00 am—10:00 pm
XETB	ak	125		Torreón, Coah.	
XEX	ak	125		Monterrey, N. L.	
XEXS	z	100		Mexico City, D. F.	

1320 kcys. (227.1)

CMOX	ak	200		Havana, Cuba	
-KGHF	ak	500	B	Pueblo, Colo.	-9:00 am—1:00 am
KGMB	ak	1000	C M	Honolulu, Hawaii	-1:30 am—6:00 pm
KID	ak	500	(1)	Idaho Falls, Idaho	
-KRNT	ak	1000	C (5)	Des Moines, Iowa	-6:00 am—1:00 am
-WADC	ak	1000	C	Akron, Ohio	-7:00 am—1:00 am
-WORK	ak	1000	N	York, Pa.	-8:00 am—10:00 pm
-WSMB	ak	1000	R	New Orleans, La.	

1330 kcys. (225.4)

CMHK	z	250		Cruces, Cuba	
KGB	ak	1000	M	San Diego, Calif.	-10:00 am—4:00 am
KMO	ak	1000	M	Tacoma, Wash.	-9:00 am—3:00 am
KRIS	z	500	N	Corpus Christi, Tex.	
-KSCJ	ak	1000	C (5)	Sioux City, Iowa	-7:00 am—1:00 am
-WDRC	ak	1000	C (5)	Hartford, Conn.	-7:00 am—midnight
-WSAI	ak	1000	MN(5)	Cincinnati, Ohio	-7:00 am—1:00 am
-WTAQ	ak	1000	C	Green Bay, Wis.	

1340 kcys. (223.7)

CMAB	z	300		Pinar del Rio, Cuba	
CMJL	z	75		Camaguey, Cuba	
KDTH	z	500	DP	Dubuque, Iowa	
KGDY	ak	250	D	Huron, S. Dak.	-10:00 am—1:00 am
KGIR	ak	1000	N (2.5)	Butte, Mont.	
KGNO	ak	250		Dodge City, Kans.	-8:30 am—midnight
WCOA	ak	500	CX	Pensacola, Fla.	
-WFEA	ak	500	MN(1)	Manchester, N. H.	-6:30 am—1:00 am
-WSPD	ak	1000	B (5)	Toledo, Ohio	-6:30 am—
XEAP	z	50		Obregon, Son.	
XEBS	z	200		Mexico City, D. F.	
XEDH	z	200		Villa Acuna, Coah.	
XEXD	z	350		Jalapa, Ver.	

1350 kcys. (222.1)

CMCA	ak	450	X	Havana, Cuba	
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NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

CMKW	z	.....	.....	Santiago, Cuba	
KIDO	ak	1000	N (2.5)	Boise, Idaho	-9:00 am-2:00 am
KWK	ak	1000	BM(5)	St. Louis, Mo.	-6:30 am-1:00 am
WAWZ	ak	500	1 (1)	Zarephath, N. J.	-6:00 am-.....
WBNX	ak	1000	1	New York, N. Y.	
WMBG	ak	500	R	Richmond, Va.	

1360 keys. (220.4)

CMJH	dk	50	.....	Ciego de Avila, Cuba	
KCRC	ak	250	M	Enid, Okla.	-8:00 am-11:00 pm
KGER	ak	1000	.....	Long Beach, Calif.	
WCSC	ak	500	N (1)	Charleston, S. C.	-7:00 am-midnight
WFBL	ak	1000	C (5)	Syracuse, N. Y.	-7:00 am-1:00 am
WGES	ak	500	1 (1)	Chicago, Ill.	-8:00 am-9:00 pm
WQBC	ak	1000	D	Vicksburg, Miss.	
WSBT	ak	500	1	South Bend, Ind.	

1370 keys. (218.8)

CFAR	z	100	.....	Flin Flon, Man.	
CKCW	ak	100	F	Moncton, N. B.	
CMGE	ak	150	.....	Cardenas, Cuba	-10:00 am-10:30 pm
KAST	ak	100	D	Astoria, Ore.	-11:00 am-8:30 pm
KCMO	ak	100	.....	Kansas City, Mo.	-7:00 am-2:00 am
KEEN	ak	100	3	Seattle, Wash.	-3:00 pm-1:00 am
KELD	z	100	.....	El Dorado, Ark.	
KERN	ak	100	N	Bakersfield, Calif.	-11:00 am-3:00 am
KFGO	ak	100	D	Boone, Iowa	-7:00 am-2:00 pm
KFJZ	ak	100	(.25)	Fort Worth, Texas	-7:30 am-midnight
KFRO	ak	250	D	Longview, Texas	-7:00 am-ss
KGAR	ak	100	C (.25)	Tucson, Arizona	
KGFL	ak	100	4	Roswell, N. Mex.	
KGKL	ak	100	(.25)	San Angelo, Texas	
KICA	ak	100	4	Crows, N. Mex.	-9:00 am-11:00 pm
KIUP	ak	100	.....	Durango, Colo.	-10:00 am-11:00 pm
KIUF	ak	100	.....	Galveston, Texas	-9:00 am-midnight
KMAC	ak	100	5 (.25)	San Antonio, Tex.	-8:00 am-9:00 pm
KOBH	ak	100	(.25)	Rapid City, S. Dak.	-8:00 am-midnight
KOKO	z	100	.....	La Junta, Colo.	
KONO	ak	100	5	San Antonio, Tex.	-7:00 am-11:00 pm
KRE	ak	100	(.25)	Berkeley, Calif.	-24 hours daily
KRKO	ak	50	3	Everett, Wash.	
KRMC	z	100	(.25)	Jamestown, N. D.	
KSLM	ak	100	M	Salem, Ore.	-10:00 am-1:00 am
KTEM	ak	250	D	Temple, Texas	
KTOK	bk	100	M	Oklahoma City, Ok.	
KUJ	ak	100	.....	Walla Walla, Wash.	-9:30 am-4:00 am
KVGB	z	100	.....	Great Bend, Kans.	
KVRS	z	100	(.25)P	Rock Springs, Wyo.	
KWYO	ak	100	(.25)	Sheridan, Wyo.	-9:00 am-midnight
WABY	ak	100	B(.25)	Albany, N. Y.	-7:00 am-midnight
WAGF	ak	250	D	Dothan, Ala.	-9:00 am-ss
WATL	ak	100	(.25)	Atlanta, Ga.	-7:00 am-1:00 am
WBLK	ak	100	.....	Clarksburg, W. Va.	-6:00 am-.....
WBNY	ak	100	2 (.25)	Buffalo, N. Y.	-7:30 am-midnight
WBTM	ak	100	(.25)	Danville, Va.	-7:00 am-10:00 pm
WCBM	ak	100	(.25)	Baltimore, Md.	
WDAS	ak	100	(.25)	Philadelphia, Pa.	-8:00 am-midnight
WDWS	ak	100	D	Champaign, Ill.	
WEOA	ak	100	C(.25)	Evansville, Ind.	
WFOR	ak	100	.....	Hattiesburg, Miss.	-8:00 am-9:00 pm
WGL	ak	100	N	Fort Wayne, Ind.	
WGRC	ak	250	D	New Albany, Ind.	
WHBO	ak	100	.....	Memphis, Tenn.	-8:00 am-11:30 pm
WHDF	ak	100	(.25)	Calumet, Mich.	-10:30 am-6:30 pm
WHILB	ak	100	C(.25)	Virginia, Minn.	
WIBM	ak	100	(.25)	Jackson, Mich.	-6:30 am-12:30 am
WILLI	ak	100	Sy	Lawrence, Mass.	-7:30 am-midnight
WLLH	ak	100	MSy(.25)	Lowell, Mass.	-7:30 am-midnight
WMBR	ak	100	C(.25)	Jacksonville, Fla.	-7:30 am-midnight
WMFD	ak	100	D	Wilmington, N. C.	
WMFO	ak	100	D	Decatur, Ala.	-8:00 am-6:30 pm
WMFN	ak	100	(.25)	St. Paul, Minn.	-7:00 am-1:00 am
WOC	ak	100	C(.25)	Davenport, Iowa	-7:00 am-1:00 am
WPAY	ak	100	.....	Portsmouth, Ohio	-7:00 am-10:15 pm
WPRA	z	100	(.25)	Mayaguez, P. R.	
WRAK	ak	100	(.25)	Williamsport, Pa.	
WRDO	ak	100	M	Augusta, Maine	-8:00 am-11:15 pm
WRJN	ak	100	(.25)	Racine, Wis.	-8:25 am-midnight

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

- WSAU	ak	100		Wausau, Wis.	-7:00 am-11:15 pm
- WSVS	ak	50	2D	Buffalo, N. Y.	
- XECZ	z	100	.....	San L. Pot., S.L.P.	
- XEI	ak	125	.....	Morelia, Mich.	
- XELZ	z	100	.....	Mexico City, D. F.	
.....	z	100	.....	Owen Sound, Ont.	

### 1380 keys. (217.3)

- CMCR	z	.....		Havana, Cuba	
- CMCX	z	150		Havana, Cuba	-9:00 am-11:00 pm
- KOH	ak	500	C	Reno, Nevada	-11:00 am-3:00 am
- KOV	ak	500	C1	Pittsburgh, Pa.	-7:00 am-10:00 pm
- WALA	ak	500	C(1)	Mobile, Ala.	-8:30 am-midnight
- WKBH	ak	1000	C	La Crosse, Wis.	7:00 am-ss
- WNBC	ak	250	D	New Britain, Conn.	-7:00 am-ss
- WSMK	ak	200	C1	Dayton, Ohio	-6:00 am-.....

### 1390 keys. (215.7)

- CJGX	ak	100	F	Yorkton, Sask.	-8:30 am-12:30 am
- CMJC	z	150		Camaguey, Cuba	
- KLRA	ak	1000	C(5)	Little Rock, Ark.	
- KOY	ak	1000	C	Phoenix, Ariz.	-9:00 am-12:15 am
- KRRLC	ak	250		Lewiston, Idaho	
- WHK	ak	1000	BM(2.5)	Cleveland, Ohio	-6:30 am-midnight
- WQDM	dk	1000	D	St. Albans, Vt.	

### 1400 keys. (214.2)

- CMGC	ad	150	.....	Matanzas, Cuba	-8:00 am-11:00 pm
- CKKR	z	100		Santiago, Cuba	
- KHBC	ak	250	CM	Hilo, T. H.	
- KLO	ak	500	B	Ogden, Utah	-9:30 am-1:30 am
- KTUL	ak	500	C(1)	Tulsa, Okla.	
- WARD	ak	500	2	Brooklyn, N. Y.	
- WBBC	ak	500	2(1)	Brooklyn, N. Y.	
- WHDL	ak	250	D	Olean, N. Y.	
- WIRE	ak	1000	MR(5)	Indianapolis, Ind.	-7:30 am-1:00 am
- WLTH	ak	500	2	Brooklyn, N. Y.	
- WVFW	ak	500	2	Brooklyn, N. Y.	

### 1410 keys. (212.6)

- CKFC	ak	50	5	Vancouver, B. C.	
- CKMO	ak	100	5	Vancouver, B. C.	
- CMCO	ak	5000	.....	Havana, Cuba	
- KFJM	ak	500	(1)	Grand Forks, N. D.	
- KGNC	ak	1000	(2.5) N	Amarillo, Texas	
- KMED	ck	250	N	Medford, Ore.	
- WAAB	ak	500	M(1)	Boston, Mass.	-24 hours daily
- WBCM	ak	500	(1)	Bay City, Mich.	-9:00 am-12:30 am
- WHIS	ak	500	(1)	Bluefield, W. Va.	-5:00 am-.....
- WROK	ak	500	(1)	Rockford, Ill.	-7:30 am-midnight
- WSFA	ak	500	C(1)	Montgomery, Ala.	-7:30 am-midnight

### 1420 keys. (211.1)

- CHLN	z	100	.....	Three Rivers, P. Q.	
- CKGB	ak	100	F	North Bay, Ont.	-11:00 am-11:30 pm
- KABC	ak	100	(.25)	San Antonio, Texas	-7:00 am-12:15 am
- KABR	ak	100	XZ	Aberdeen, S. D.	
- KATE	ak	250	D	Albert Lea, Minn.	-7:30 am-ss
- KBPS	ak	100	4	Portland, Ore.	-2:00 pm-8:00 pm
- KCMC	ak	100	(.25)	Texarkana, Tex.	
- KEUB	ak	100	.....	Price, Utah	-9:30 am-midnight
- KFAM	z	100	P	St. Cloud, Minn.	
- KFIZ	ak	100	.....	Fond du Lac, Wis.	
- KGGC	ak	100	(.25) M	Shawnee, Okla.	-8:00 am-10:00 pm
- KGIW	ak	100	.....	San Francisco, Cal.	
- KIDW	ak	100	1	Alamosa, Colo.	-9:30 am-10:30 pm
- KIUN	ak	100	1	Lamar, Colo.	-9:00 am-8:00 pm
- KLBK	z	100	(.25) P	Pecos, Texas	-8:00 am-10:00 pm
- KNET	ak	100	D	La Grande, Ore.	
- KORE	ak	100	M	Palestine, Texas	
- KRBC	ak	100	(.25)	Eugene, Ore.	
- KRLH	ak	100	D	Abilene, Texas	-8:00 am-10:00 pm
- KTRI	z	100	(.25) P	Midland, Texas	
				Sioux City, Iowa	

## NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

KUMA	ak	100	....	Yuma, Ariz.	
KWBG	ak	100	....	Hutchinson, Kans.	
KXIL	ak	100	4 (.25)	Portland, Ore.	—All night station
WACO	ak	100	C	Waco, Texas	
WAGM	ak	100	....	Presque Isle, Me.	—11:00 am—7:00 pm
WAPQ	ak	100	(.25)	Chattanooga, Tenn.	—7:00 am—7:00 pm
WAZL	ak	100	2	Hazleton, Pa.	—9:00 am—10:00 pm
WCBS	ak	100	(.25)	Springfield, Ill.	—8:00 am—11:00 pm
WCHV	ak	100	3 (.25)	Charlottesville, Va.	—7:00 am—midnight
WEED	ak	100	3 (.25)	Rocky Mount, N. C.	
WELL	ak	100	....	Battle Creek, Mich.	—7:30 am—midnight
WGFC	ak	100	....	Albany, Ga.	
WHFC	ak	100	(.25)	Cicero, Ill.	—7:00 am—1:00 am
WILM	aj	100	2	Wilmington, Del.	
WJMS	ak	100	....	Ironwood, Mich.	
WLAP	ak	100	(.25)	Lexington, Ky.	
WLEU	ak	100	(.25)	B Erie, Pa.	
WMAS	ak	100	C (.25)	Springfield, Mass.	—7:00 am—midnight
WMBC	ak	100	(.25)	Detroit, Mich.	—7:30 am—midnight
WMBH	ak	100	(.25)	Joplin, Mo.	
WMBS	ak	250	D	Uniontown, Pa.	—6:00 am—6:00 pm
WMFJ	ak	100	....	Daytona Bch., Fla.	
WMSD	ak	100	....	Sheffield, Ala.	—8:00 am—11:00 pm
WNNY	z	100	(.25) P	Watertown, N. Y.	
WPAQ	ak	100	(.25)	Paducah, Ky.	—7:00 am—midnight
WPRP	ak	100	C	Parkersburg, W. V.	
	z	100	(.25)	Ponce, Puerto Rico	
		100	P	Beaumont, Texas	—.....
		100	....	Kenora, Ont.	

### 1430 kcys. (209.7)

CMJP	ak	75	....	Moron, Cuba	
KECA	ak	1000	(5) B	Los Angeles, Cal.	—10:00 am—3:00 am
KGNF	ak	1000	D	North Platte, Neb.	—8:00 am—6:15 pm
KSO	ak	500	BM(2.5)	Des Moines, Iowa	
WBNS	ak	500	C (1) X	Columbus, Ohio	—6:30 am—.....
WHEC	ak	500	C (1)	Rochester, N. Y.	—7:00 am—midnight
WHP	ak	500	C (1)	Harrisburg, Pa.	—6:30 am—midnight
WMPS	ak	500	(1) B	Memphis, Tenn.	
WOKO	ak	500	C (1)	Albany, N. Y.	—8:00 am—1:00 am

### 1440 kcys. (208.2)

CMOA	z	150	....	Havana, Cuba	
KDFN	ak	500	....	Casper, Wyo.	
KELA	ak	500	M	Centralia, Wash.	
KXYZ	ak	1000	B	Houston, Texas	—24 hours daily
WBIG	ak	1000	C	Greensboro, N. C.	—6:30 am—11:30 pm
WCBA	aj	500	a	Allentown, Pa.	—6:30 am—11:30 pm
WMBD	ak	1000	C(5)	Peoria, Ill.	—7:00 am—midnight
WSAN	aj	500	Na	Allentown, Pa.	—1:00 pm—11:30 pm
XEFT	ak	250	....	Chihuahua, Chih.	

### 1450 kcys. (206.8)

CFCT	ak	500	....	Victoria, B. C.	—10:45 am—12:15 am
CHGS	ak	50	F	Summerside, P.E.I.	—6:30 am—10:00 pm
CMHM	z	100	....	Cienfuegos, Cuba	
KGCX	ak	1000	....	Wolf Point, Mont.	
KIEM	ak	500	M(1)	Eureka, Calif.	—10:00 am—1:00 am
KTBS	ak	1000	N	Shreveport, La.	—7:30 am—1:00 am
WAGA	ak	500	B (1)	Atlanta, Ga.	
WGAR	ak	500	C (1)	Cleveland, Ohio	—6:30 am—midnight
WHOM	ak	250	....	Jersey City, N. J.	—7:00 am—midnight
WSAR	ak	1000	M	Fall River, Mass.	7:30 - .....
XEF	ak	100	....	Juarez, Chih.	

### 1460 kcys. (205.4)

CMKF	z	250	....	Holguin, Cuba	
KSTP	ak	10000	R (25)	St. Paul, Minn.	—7:00 am—2:00 am
WJSV	ak	10000	C	Washington, D. C.	

### 1470 kcys. (204.0)

KGA	ak	5000	BM	Spokane, Wash.	
WLAC	ak	5000	C	Nashville, Tenn.	

NORTH AMERICAN B. C. STATIONS BY FREQUENCIES

1480 keys. (202.6)

-KOMA	ak	5000	C	Oklahoma City, Ok.	-7:30 am-1:00 am
-WHIP	z	5000	D	Hammond, Ind.	-7:30 am-5:30 pm
-WKBW	ak	5000	C	Buffalo, N. Y.	-8:00 am-1:00 am

1490 keys. (201.2)

-KFBK	ak	5000	N X	Sacramento, Calif.	-7:00 am-midnight
-WCKY	ak	10000	N	Covington, Ky.	

1500 keys. (199.9)

CJIC	ak	100	....	S. S. Marie, Ont.	-10:00 am-10:00 pm
KAWM	z	100	....	Gallup, N. Mex.	
KBIX	ak	100	M	Muskogee, Okla.	-8:00 am-11:00 pm
-KBST	z	100	....	Big Spring, Texas	
KDAL	ak	100	C	Duluth, Minn.	
KDB	ak	100	M(.25)	Santa Barbara, Cal.	
-KGFJ	ak	100	(.25)	Brownsville, Tex.	
-KGKB	ak	100	(.25)	Tyler, Texas	
KGKY	ak	100	(.25)	Scottsbluff, Neb.	-8:30 am-11:00 pm
-KNEL	ak	250	D	Brady, Texas	-8:00 am-6:00 pm
-KNOW	ak	100	C	Austin, Texas	
-KOTN	ak	100	D	Pine Bluff, Ark.	-8:00 am-as
-KOVG	ak	100	(.25)	Valley City, N. D.	-8:00 am-10:00 pm
KPLC	ak	100	(.25)	Lake Charles, La.	
-KPLT	z	250	D	Paris, Texas	
KPO	ak	100	M(.25)	Wenatchee, Wash.	
-KRNR	ak	100	M(.25)	Roseburg, Ore.	
KROD	ak	100	P	El Paso, Texas	
KSAL	ak	100	(.25)	Salina, Kans.	
KUTA	z	100	P	Salt Lake City, Ut.	
KVOE	ak	100	M	Santa Ana, Calif.	-Noon to 2:00 am
KWEW	z	100	DP	Hobbs, N. Mex.	
-KXO	ak	100	....	El Centro, Calif.	-11:00 am-midnight
KYSM	z	100	(.25)P	Mankato, Minn.	
WCNW	ak	100	I(.25)	Brooklyn, N. Y.	-9:00 am-midnight
-WDNC	ak	100	C	Durham, N. C.	-7:30 am-12:30 am
WGAL	ak	100	(.25)	Lancaster, Pa.	
WGIL	z	250	DP	Galesburg, Ill.	
WHBB	ak	100	....	Selma, Ala.	-7:30 am-as
-WHIEF	ak	100	(.25)	Kosciusko, Miss.	-7:30 am-10:00 pm
-WJBC	ak	100	(.25)	Detroit, Mich.	-24 hours daily
-WKAT	z	100	....	Miami Beach, Fla.	
-WKBB	ak	100	(.25)	E. Dubuque, Ill.	
-WKBV	ak	100	(.25)	Richmond, Ind.	
-WKBZ	ak	100	(.25)	Muskegon, Mich.	-7:00 am-10:00 pm
-WKEU	ak	100	D	Griffin, Ga.	
-WMBQ	ak	100	I	Brooklyn, N. Y.	
-WMEX	ak	100	(.25)	Boston, Mass.	-7:00 am-10:30 pm
-WNBK	ak	100	C(.25)	Binghamton, N. Y.	-7:00 am-9:00 pm
-WNLC	ak	100	DM	New London, Conn.	-8:00 am-11:00 pm
-WOMI	z	100	(.25)	Owensboro, Ky.	
-WOPJ	ak	100	....	Bristol, Tenn.	-7:00 am-10:30 pm
WRDW	ak	100	C(.25)	Augusta, Ga.	-7:00 am-9:00 pm
WRGA	ak	100	(.25)	Rome, Ga.	-8:00 am-11:00 pm
-WRTD	z	100	B	Richmond, Va.	
-WSYB	ak	100	....	Rutland, Vt.	-10:00 am-9:00 pm
-WTMV	ak	100	(.25)	E. St. Louis, Ill.	
-WVRL	ak	100	I(.25)	Woodside, N. Y.	-8:00 am-midnight
-WWSV	ak	100	(.25)	Pittsburgh, Pa.	
<i>K. KAZB</i>	z	100	(.25)P	Laredo, Texas	

1510 keys. (198.6)

-CFRC	ak	100	F	Kingston, Ont.	-Noon-11:00 pm
-CKCR	ak	100	....	Waterloo, Ont.	-8:00 am-11:00 pm

1530 keys. (196.0)

-KXBY	ak	1000	....	Kansas City, Mo.	-8:00 am-3:30 am
FGW	ak	1000	....	Guatemala City, Guat.	
-WBRY	ak	1000	M	Waterbury, Conn.	-8:00 am-midnight

1550 keys. (193.4)

KPMC	ak	1000	M	Bakersfield, Calif.	-10:00 am-2:00 am
-WQXR	ak	1000	....	New York, N. Y.	-10:00 am-9:15 pm



## 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, M Mutual.*

ALABAMA	Pine Bluff	KSFO	560	1000 C	DELAWARE
Birmingham	KOTN 1500 100	KYA	1230	1000	Wilmington
WAPI 1140 5000 C	Siloam Springs	San Jose			WDEL 1120 250 R
WBRC 930 1000 R	KUOA 1260 5000	KQW	1010	1000 M	WILM 1420 100
WSGN 1310 100 B		San Luis Obispo			
Decatur	CALIFORNIA	KVEC	1200	250	DISTRICT OF COLUMBIA
WMFO 1370 100	Bakersfield	Santa Ana			Washington
Dothan	KERN 1370 100 N	KVOE	1500	100 M	WJSV 1460 10000 C
WAGF 1370 250	KPMC 1550 1000 M	Santa Barbara			WMAL 630 250 B
Gadsden	Berkeley	KDB	1500	100 M	WOL 1310 100 M
WJBY 1210 100	KRE 1370 100	KTMS	1220	500 B	WRC 950 500 R
Huntsville	Beverly Hills	Santa Rosa			
WBHP 1200 100	KMPC 710 500	KSRO	1310	250	FLORIDA
Mobile	Chico	Stockton			Clearwater
WALA 1380 500 C	KHSL 1260 250	KGDM	1100	1000 M	WFLA 620 1000 N
Montgomery	El Centro	KWG	1200	100 N	Daytona Beach
WSFA 1410 500 C	KXO 1500 100	Visalia			WMFJ 1420 100
Selma	Eureka	KTKC	1190	250	Gainesville
WIBB 1500 100	KIEM 1450 500 M	Watsonville			WRUF 830 5000
Sheffield	Fresno	KHUB	1310	250	Jacksonville
WMSD 1420 100	KARM 1310 100 C				WJAX 900 1000 N
Tuscaloosa	KMJ 580 1000 N	COLORADO			WMBR 1370 100 C
WJRD 1200 250	Glendale	Alamosa			Lakeland
	KIEV 850 250	KGIW	1420	100	WLAK 1310 100
	Hollywood	Colorado Springs			Miami
	KFWB 950 1000	KVOR	1270	1000 C	WIOD 610 1000 N
	Long Beach	Denver			WMBF 610 1000
ALASKA	KFOK 1250 1000	KFEL	920	500 M	WQAM 560 1000 C
Anchorage	KGER 1360 1000	KLZ	560	1000 C	Miami Beach
KFQD 780 250	Los Angeles	KOA	830	50000 R	WKAT 1500 100
Juneau	KECA 1430 1000 B	KPOF	880	1000	Orlando
KINY 1310 100	KEJIE 780 1000	KVOD	920	500 B	WDBO 580 1000 C
Ketchikan	KFAC 1300 1000	Durango			Pensacola
KGBU 900 500	KFI 640 50000 R	KIUP	1370	100	WCOA 1340 500 C
	KFSG 1120 500	Grand Junction			St. Augustine
	KFVD 1000 1000	KFXJ	1200	100	WFOY 1210 100
ARIZONA	KGfJ 1200 100	Greeley			St. Petersburg
Jerome	KIJJ 900 1000 M	KFKA	880	500 M	WSUN 620 1000 N
KCRJ 1310 100	KMTR 570 1000	La Junta			Tallahassee
Lowell	KNX 1050 50000 C	KOKO	1370	100	WTAL 1310 100
KSUN 1200 100	KRKD 1120 500	Lamar			Tampa
Phoenix	Merced	KIDW	1420	100	WDAE 1220 1000 C
KOY 1390 1000 C	KYOS 1040 250	Pueblo			West Palm Beach
KTAR 620 1000 N	Modesto	KGHF	1320	500 B	WJNO 1200 100 C
Tucson	KTRB 740 250	Sterling			
KGAR 1370 100 C	Monterey	KGEK	1200	100	GEORGIA
KVOA 1260 1000	KDON 1210 100 M				Albany
Yuma	Oakland	CONNECTICUT			WGPC 1420 100
KUMA 1420 100	KLS 1280 250	Bridgeport			Athens
	KLX 880 1000	WICC	600	500 M	WGAU 1310 100
	KROW 930 1000	Hartford			Atlanta
ARKANSAS	Pasadena	WDRG	1330	1000 C	WAGA 1450 500
Blytheville	KPPC 1210 100	WTIC	1040	50000 R	WATL 1370 100
KLCN 1290 100	Redding	WTHT	1200	100 M	WGST 890 1000 C
El Dorado	KVCV 1200 100	New Britain			WSB 740 50000 R
KELD 1370 100	Sacramento	WNBC	1380	250	Augusta
Fort Smith	KFBK 1490 5000 N	WELI	900	500	WRDW 1500 100 C
KFPW 1210 100	KROY 1210 100 C	New London			Columbus
Hot Springs	San Bernardino	WNLC	1500	100 M	WRBL 1200 100
KTHS 1060 10000 N	KFSM 1210 100 M	Waterbury			Griffin
Jonesboro	San Diego	WATR	1190	100	WKEU 1500 100
KBTM 1200 100	KFSD 600 1000 B	WBRV	1530	1000 M	Macon
Little Rock	KGB 1330 1000 M				WMAZ 1180 1000 C
KARK 890 500 N	San Francisco				Rome
KGHI 1200 100	KFRG 610 1000 M				WRGA 1500 100
KLRA 1390 1000 C	KGGC 1420 100				Savannah
	KGO 790 7500 B				WTOC 1260 1000 C
	KJBS 1070 500				
	KPO 680 50000 R				

## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Thomasville WPAX 1210 100</p> <p>Waycross WAYX 1200 100</p> <hr/> <p style="text-align: center;">HAWAII</p> <p>Hilo KHBC 1400 250M</p> <p>Honolulu KGMB 1320 1000 C KGU 750 2500 N</p> <hr/> <p style="text-align: center;">IDAHO</p> <p>Boise KIDO 1350 1000 N</p> <p>Coeur d'Alene KGGI 1200 100</p> <p>Idaho Falls KID 1320 500</p> <p>Lewiston KRLC 1390 250</p> <p>Nampa KFXD 1200 100</p> <p>Pocatello KSEI 900 250</p> <p>Twin Falls KTFF 1240 1000</p> <hr/> <p style="text-align: center;">ILLINOIS</p> <p>Bloomington WJBC 1200 100</p> <p>Carthage WCZA 1070 100</p> <p>Champaign WDWS 1370 100</p> <p>Chicago WAAF 920 1000 WBBM 770 50000 C WCBD 1080 5000 WCFL 970 5000 N WCRW 1210 100 WEDC 1210 100 WENR 870 50000 B WGES 1360 500 WGN 720 50000M WJJD 1130 20000 WLS 870 50000 B WMAQ 670 50000 R WMBI 1080 5000 WSBC 1210 100</p> <p>Cicero WHFC 1420 100</p> <p>Decatur WJBL 1200 100</p> <p>East Dubuque WKBB 1500 100</p> <p>East St. Louis WTMV 1500 100</p> <p>Galesburg WGIL 1500 250</p> <p>Harrisburg WEBQ 1210 100</p> <p>Joliet WCLS 1310 100</p> <p>Peoria WMBD 1440 1000 C</p> <p>Quincy WTAD 900 1000</p>	<p>Rockford WROK 1410 500</p> <p>Rock Island WHBF 1210 100</p> <p>Springfield WCBS 1420 100 WTAX 1210 100</p> <p>Tuscola WDZ 1020 250</p> <p>Urbana WILL 580 1000</p> <hr/> <p style="text-align: center;">INDIANA</p> <p>Anderson WHBU 1210 100</p> <p>Elkhart WTRC 1310 100</p> <p>Evansville WEOA 1370 100 C WGBF 630 500 N</p> <p>Fort Wayne WGL 1370 100 N WOWO 1160 10000 B</p> <p>Gary WIND 560 1000</p> <p>Hammond WHPP 1480 5000 WWAE 1200 100</p> <p>Indianapolis WFBM 1230 1000 C WGVA 1050 1000 WIRE 1400 1000 R</p> <p>Muncie WLBC 1310 100</p> <p>New Albany WGRC 1370 250</p> <p>Richmond WKBV 1500 100</p> <p>South Bend WFAM 1200 100 WSBT 1360 500</p> <p>Terre Haute WBOW 1310 100 N</p> <p>West Lafayette WBAA 890 500</p> <hr/> <p style="text-align: center;">IOWA</p> <p>Ames WOI 640 5000</p> <p>Boone KFGQ 1370 100</p> <p>Cedar Rapids WMT 600 1000 B</p> <p>Davenport WOC 1370 100 C</p> <p>Decorah KGCA 1270 100 KWLC 1270 100</p> <p>Des Moines KRNT 1320 1000 C KSO 1430 500 B WHO 1000 50000 R</p> <p>Dubuque KDTH 1340 500</p> <p>Iowa City WSUI 880 500</p>	<p>Marshalltown KFJB 1200 100</p> <p>Mason City KGLO 1210 100 C</p> <p>Shenandoah KFNF 890 500 KMA 930 1000 Sioux City KSCJ 1330 1000 C KTRI 1420 100</p> <hr/> <p style="text-align: center;">KANSAS</p> <p>Abilene KFBI 1050 5000</p> <p>Coffeyville KGGF 1010 1000M</p> <p>Dodge City KGNO 1340 250</p> <p>Garden City KIUL 1210 100</p> <p>Great Bend KVBG 1370 100</p> <p>Hutchinson KWBG 1420 100</p> <p>Kansas City KCKN 1310 100</p> <p>Lawrence KFKU 1220 1000 WREN 1220 1000 B</p> <p>Manhattan KSAC 580 500</p> <p>Pittsburg KOAM 790 1000 N</p> <p>Salina KSLA 1500 100</p> <p>Topeka WIBW 580 1000 C</p> <p>Wichita KANS 1210 100 B KFH 1300 1000 C</p> <hr/> <p style="text-align: center;">KENTUCKY</p> <p>Ashland WCMI 1310 100</p> <p>Covington WCKY 1490 10000 N</p> <p>Lexington WLAP 1420 100</p> <p>Louisville WAVE 940 1000 N WHAS 820 50000 C</p> <p>Middlesboro WLMU 1210 100</p> <p>Owensboro WOMI 1500 100</p> <p>Paducah WPAD 1420 100</p> <hr/> <p style="text-align: center;">LOUISIANA</p> <p>Alexandria KALB 1210 100</p> <p>Baton Rouge WJBO 1120 500 B</p> <p>Lafayette KVOL 1310 100</p>	<p>Lake Charles KPLC 1500 100</p> <p>Monroe KMLB 1200 100</p> <p>New Orleans WBNO 1200 100 WDSU 1250 1000 B WJWB 1200 100 WSMB 1320 1000 R WWL 850 10000 C</p> <p>Shreveport KRMD 1310 100 KTBS 1450 1000 N KWKH 1100 10000 C</p> <hr/> <p style="text-align: center;">MAINE</p> <p>Augusta WRDO 1370 100M</p> <p>Bangor WABI 1200 100 WLBZ 620 500 C</p> <p>Portland WCSH 940 1000 R WGAN 640 500</p> <p>Presque Isle WAGM 1420 100</p> <hr/> <p style="text-align: center;">MARYLAND</p> <p>Baltimore WBAL 760 2500 B WBAL 1060 10000 B WCAO 600 500 C WCBM 1370 100 WFBR 1270 500 R</p> <p>College Park W3XJ 1060 100</p> <p>Cumberland WTBO 800 250</p> <p>Frederick WFMD 900 500</p> <p>Hagerstown WJEJ 1210 50</p> <p>Salisbury WSAL 1200 250</p> <hr/> <p style="text-align: center;">MASSACHUSETTS</p> <p>Boston WAAB 1410 500M WBZ 990 50000 B WCOP 1120 500 WEEI 590 1000 C WHDH 830 1000 WMEX 1500 100 WNAC 1230 1000 R WORL 920 500</p> <p>Fall River WSAR 1450 1000M</p> <p>Greenfield WHAI 1210 250</p> <p>Lawrence WLAW 680 1000 WLLH 1370 100</p> <p>Lowell WLLH 1370 100M</p> <p>New Bedford WNBH 1310 100M</p> <p>Pittsfield WBRK 1310 100 C</p>
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NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Springfield		
WBZA	990	1000 B
WMAS	1420	100 C
WSPR	1140	500M
Worcester		
WORC	1280	500 C
WTAG	580	1000 R

MICHIGAN

Battle Creek		
WELL	1420	100
Bay City		
WBCM	1410	500
Calumet		
WHDF	1370	100
Detroit		
WJBK	1500	100
WJR	750	5000 C
WMBG	1420	100
WJW	920	5000 R
WXYZ	1240	1000 B
East Lansing		
WKAR	850	1000
Flint		
WFDF	1310	100
Grand Rapids		
WASH	1270	500 N
WOOD	1270	500 N
Ironwood		
WJMS	1420	100
Jackson		
WIBM	1370	100
Kalamazoo		
WKZO	590	1000 B
Lansing		
WJIM	1210	100
Lapeer		
WMPC	1200	100
Marquette		
WBEO	1310	100
Muskegon		
WKBZ	1500	100
Royal Oak		
WEXL	1310	50
Saginaw		
WHAL	950	500

MINNESOTA

Albert Lea		
KATE	1420	250
Duluth		
KDAL	1500	100 C
WEBC	1290	1000 N
Fergus Falls		
KGDE	1200	100
Hibbing		
WMFG	1210	100
Mankato		
KYSM	1500	100
Minneapolis		
WCCO	810	50000 C
WDGY	1180	1000 C
WLB	1250	1000
WTCN	1250	1000 B
Moorhead		
KVOX	1310	100
Northfield		
WCAL	1250	1000
Rochester		
KROC	1310	100
St. Cloud		
KFAM	1420	100

St. Paul		
KSTP	1460	10000 R
WMIN	1370	100
Virginia		
WHLB	1370	100 C
Winona		
KWNO	1200	250

MISSISSIPPI

Grenada		
WGRM	1210	100
Gulfport		
WGCM	1210	100
Hattiesburg		
WFOR	1370	100
Jackson		
WJDX	1270	1000 R
Kosciusko		
WHEF	1500	100
Laurel		
WAML	1310	100
Meridian		
WCOC	880	500 C
Vicksburg		
WQBC	1360	1000

MISSOURI

Cape Girardeau		
KFVS	1210	100
Columbia		
KFRU	630	500
Jefferson City		
KWOS	1310	100
Joplin		
WMBH	1420	100
Kansas City		
KCMO	1370	100
KMBC	950	1000 C
KXBY	1530	1000
WDAF	610	1000 R
WHB	860	1000M
Poplar Bluff		
KWOC	1310	100
St. Joseph		
KPEO	680	2500
St. Louis		
KFUO	550	500
KMOX	1090	50000 C
KSD	550	1000 R
KWK	1350	1000 B
KXOK	1250	1000
WEW	760	1000
WIL	1200	100
Springfield		
KGBX	1230	500 N
KVTO	560	5000

MONTANA

Billings		
KGHL	780	1000 N
Butte		
KGIR	1340	1000 N
Great Falls		
KFBB	1280	1000 C
Helena		
KPFA	1210	100
Kalispell		
KGEZ	1310	100
Lewistown		
KDNC	1200	100
Missoula		
KGVO	1260	1000 C

Wolf Point		
KGCX	1450	1000

NEBRASKA

Clay Center		
KMMJ	740	1000
Kearney		
KGFV	1310	100
Lincoln		
KFAB	770	10000 C
KFOR	1210	100 C
Norfolk		
WJAG	1060	1000
North Platte		
KGNF	1430	1000
Omaha		
KOIL	1260	1000 B
WAAW	660	500
WOW	590	1000 R
Scottsbluff		
KGKY	1500	100

NEVADA

Reno		
KOH	1380	500 C

NEW HAMPSHIRE

Laconia		
WLNH	1310	100M
Manchester		
WFEA	1340	500 N
Portsmouth		
WHEB	740	250

NEW JERSEY

Asbury Park		
WCAP	1280	500
Atlantic City		
WPG	1100	5000 C
Bridgeton		
WSNJ	1210	100
Camden		
WCAM	1280	500
Jersey City		
WAAT	940	500
WHOM	1450	250
Newark		
WHBI	1250	1000
WOR	710	5000M
Red Bank		
WBRB	1210	100
Trenton		
WTNJ	1280	500
Whippany		
WXDD	5000	
Zarephath		
WAWZ	1350	500

NEW MEXICO

Albuquerque		
KGGM	1230	1000
KOB	1180	10000 N
Carlsbad		
KLAH	1210	100
Clovis		
KICA	1370	100

Gallup		
KAWM	1500	100
Hobbs		
KWEW	1500	100
Roswell		
KGFL	1370	100
Santa Fe		
KRQA	1310	100

NEW YORK

Albany		
WABY	1370	100
WOKO	1430	500 C
Auburn		
WMOB	1310	100
Binghamton		
WNBF	1500	100 C
Brooklyn		
WARD	1400	500
WBBC	1400	500
WBRR	1300	1000
WCNW	1500	100
WLTH	1400	500
WMBQ	1500	100
WVFW	1400	500
Buffalo		
WBEN	900	1000 R
WBNY	1370	100
WEBR	1310	100 B
WGR	550	1000 C
WKBW	1480	5000 C
WSVS	1370	50
Canton		
WCAD	1220	500
Elmira		
WESG	850	1000 C
Freeport		
WGBB	1210	100
Jamestown		
WJTN	1210	100 B
Newburgh		
WGNV	1210	100
New York		
WABC	860	50000 C
WBIL	1100	5000
WBNX	1350	1000
WBOQ	860	50000
WEAF	660	50000 R
WEVD	1300	1000
WFAB	1300	1000
WHN	1010	1000
WINS	1180	1000
WJZ	760	50000 B
WMCA	570	1000
WNEW	1250	1000
WNYC	810	1000
WOV	1130	1000
WQXR	1550	1000
Olean		
WHDL	1400	250
Plattsburg		
WMFF	1310	100
Rochester		
WHAM	1150	50000 B
WHEC	1430	500 C
WSAY	1210	100
Saranac Lake		
WNBZ	1290	100
Schenectady		
WGY	790	50000 R
Syracuse		
WFBL	1360	1000 C
WSYR	570	1000 B

## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Troy		
WHAZ	1300	1000
Utica		
WIBX	1200	100 C
Watertown		
WNNY	1420	100
White Plains		
WFAS	1210	100
Woodside		
WWRL	1500	100

### NORTH CAROLINA

Ashville		
WWNC	570	1000 N
Charlotte		
WBT	1080	50000 C
WSOC	1210	100 N
Durham		
WDNC	1500	100 C
Greensboro		
WBIG	1440	1000 C
High Point		
WMFR	1200	100
Kinston		
WFCB	1200	100
Raleigh		
WPTF	680	1000 N
Rocky Mount		
WEED	1420	100
Wilmington		
WMFD	1370	100
Wilson		
WGTM	1310	100
Winston-Salem		
WAIR	1250	250
WSJS	1310	100 C

### NORTH DAKOTA

Bismarck		
KFYR	550	1000 N
Devils Lake		
KDLR	1210	100
Fargo		
WDAY	940	1000 N
Grand Forks		
KFJM	1410	500
Jamestown		
KRMC	1370	100
Mandan		
KGCV	1240	250
Minot		
KLPM	1240	250
Valley City		
KOVC	1500	100

### OHIO

Akron		
WADC	1320	1000 C
WJW	1210	100 C
Ashtabula		
WICA	940	250
Canton		
WBCC	1200	100
Cincinnati		
WCPO	1200	100
WKRC	550	1000 C
WLW	700	500000 N

WSAI	1330	1000 N
WXO	700	500000
Cleveland		
WCLE	610	500 M
WGAR	1450	500 C
WHK	1390	1000 B
WTAM	1070	50000 R
Columbus		
WBNS	1430	500 C
WCOL	1210	100 N
WHKC	640	500
WOSU	370	750

Dayton		
WHIO	1260	1000 C
WSMK	1380	200 C
Lima		
WBLV	1210	100
Portsmouth		
WPAY	1370	100
Toledo		
WSPD	1340	1000 B
WTOL	1200	100
Youngstown		
WKBN	570	500 C
Zanesville		
WALR	1210	100

### OKLAHOMA

Ada		
KADA	1200	100 M
Ardmore		
KVSO	1210	100 M
Elk City		
KASA	1210	100
Enid		
KCRC	1360	250 M
Muskogee		
KBIX	1500	100 M
Norman		
WNAD	1010	1000
Oklahoma City		
KFXR	1310	100
KOMA	1480	5000 C
KTKO	1370	100 M
WKY	900	1000 N
Okmulgee		
KHBG	1210	100
Ponca City		
WBBZ	1200	100 M
Shawnee		
KGFF	1420	100 M
Tulsa		
KTUL	1400	500 C
KVOO	1140	25000 N

### OREGON

Astoria		
KAST	1370	100
Corvallis		
KOAC	550	1000
Eugene		
KORE	1420	100 M
Klamath Falls		
KFJI	1210	100
La Grande		
KLBM	1420	100
Marshfield		
KOOS	1200	100
Medford		
KMED	1410	250 N

Portland		
KALE	1300	1000 M
KBPS	1420	100
KEX	1180	5000 B
KGW	620	1000 R
KOIN	940	1000 C
KWJJ	1040	500
KXL	1420	100
Roseburg		
KRNR	1500	100 M
Salem		
KSLM	1370	100 M

### PENNSYLVANIA

Allentown		
WCBA	1440	500
WSAN	1440	500 N
Altoona		
WFBG	1310	100
Easton		
WEST	1200	100
Erie		
WLEU	1420	100 B
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
Philadelphia		
KYW	1020	10000 R
WCAU	1170	50000 C
WDAS	1370	100
WFIL	560	1000 B
WHAT	1310	100
WIP	610	1000
WPEN	920	1000
WRAX	920	1000
WTEL	1310	100
Pittsburgh		
KDKA	980	50000 B
KQV	1380	500 C
WCAE	1220	1000 R
WJAS	1290	1000 C
WWSW	1500	100
Reading		
WEEU	830	1000
WRWA	1310	100
Scranton		
WGBI	880	500
WQAN	880	500
Sunbury		
WKOK	1210	100
Uniontown		
WMBS	1420	250
Wilkes-Barre		
WBAX	1210	100
WBRE	1310	100 N
Williamsport		
WRAC	1370	100

York		
WORK	1320	1000 N

### PUERTO RICO

Mayaguez		
WPRA	1370	100
Ponce		
WPRP	1420	100
San Juan		
WKAQ	1240	1000
WNEL	1290	1000

### RHODE ISLAND

Providence		
WEAN	780	1000 M
WJAR	890	1000 R
WPRO	630	500 C

### SOUTH CAROLINA

Anderson		
WAIM	1200	100 C
Charleston		
WCSC	1360	500 N
Columbia		
WIS	560	1000 N
Florence		
WOLS	1200	100
Greenville		
WFBC	1300	1000 N
Spartanburg		
WSPA	920	1000

### SOUTH DAKOTA

Aberdeen		
KABR	1420	100
Brookings		
KFDY	780	1000
Huron		
KGDY	1340	250
Pierre		
KGFX	630	200
Rapid City		
KOBH	1370	100
WCAT	1200	100
Sioux Falls		
KELO	1200	100 N
KSOU	1110	2500 N
Vermillion		
KUSD	890	500
Watertown		
KWTN	1210	100
Yankton		
WNAX	570	1000 C

### TENNESSEE

Bristol		
WOPI	1500	100
Chattanooga		
WAPO	1420	100
WDOD	1280	1000 C
Jackson		
WTJS	1310	100
Knoxville		
WNOX	1010	1000 C
WROL	1310	100 N
Memphis		
WHBO	1370	100
WMC	780	1000 R
WMPS	1430	500 B
WREC	600	1000 C

## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

Nashville		
WLAC	1470	5000 C
WSIX	1210	100
WSM	650	50000 N
<b>TEXAS</b>		
Arlene		
KRBC	1420	100
Amarillo		
KGNC	1410	1000 N
Austin		
KNOW	1500	100 C
KTBC	1120	1000
Beaumont		
KFDM	560	500 N
	1420	100
Big Spring		
KBST	1500	100
Brady		
KNEL	1500	250
Brownsville		
KGFI	1500	100
College Station		
WTAW	1120	500
Corpus Christi		
KRIS	1330	500 N
Corsicana		
KAND	1310	100
Dallas		
KRLD	1040	10000 C
WFAA	800	50000 N
WRR	1280	500M
Denton		
	1420	100
Dublin		
KFPL	1310	100
El Paso		
KROD	1500	100
KTSM	1310	100 N
WDAI	1310	100
Fort Worth		
KFJZ	1370	100
KTAT	1240	1000M
WBAP	800	50000 N
Galveston		
KLUF	1370	100
Greenville		
KGVL	1200	100
Houston		
KPRC	920	1000 R
KTRH	1290	1000 C
KXYZ	1440	1000 B
Kilgore		
KOCA	1210	100
Laredo		
	1500	100
Longview		
KFRO	1370	250
Lubbock		
KFYO	1310	100
Lufkin		
KRBA	1310	100
Midland		
KRLH	1420	100
Palestine		
KNET	1420	100
Pampa		
KPDN	1310	100
Paris		
KPLT	1500	250
Pecos		
KIUN	1420	100
Port Arthur		
KPAC	1260	500

San Angelo		
KGKL	1370	100
San Antonio		
KABC	1420	100
KMAC	1370	100
KONO	1370	100
KTSA	550	1000 C
WQAI	1190	50000 N
Sherman		
KRRV	1310	250
Temple		
KTEM	1370	250
Texarkana		
KCMC	1420	100
Tyler		
KGKB	1500	100
Waco		
WACO	1420	100 C
Weslaco		
KRGV	1260	1000 N
Wichita Falls		
KGKO	570	250 C
<b>UTAH</b>		
Cedar City		
KSUB	1310	100
Logan		
	1500	100
Ogden		
KLO	1400	500 B
Price		
KEUB	1420	100
Salt Lake City		
KDYL	1290	1000 R
KSL	1130	50000 C
KUTA	1500	100
<b>VERMONT</b>		
Burlington		
WCAX	1200	100
Rutland		
WSYB	1500	100
St. Albans		
WQDM	1390	1000
Springfield		
WNBX	1260	500 C
Waterbury		
WDEV	550	500
<b>VIRGINIA</b>		
Charlottesville		
WCHV	1420	100
Danville		
WBTV	1370	100
Harrisonburg		
WSVA	550	500
Lynchburg		
WLVA	1200	100
Newport News		
WGH	1310	100
Norfolk		
WTAR	780	1000 N
Richmond		
WBBL	1210	100
WMBG	1350	500 R
WRNL	880	500
WRTD	1500	100 B
WRVA	1110	5000 C
Roanoke		
WDBJ	930	1000 C
<b>WASHINGTON</b>		
Aberdeen		
KXRO	1310	100M

Bellingham		
KVOS	1280	100M
Centralia		
KELA	1440	500M
Everett		
KRKO	1370	50
Longview		
KWLK	780	250
Olympia		
KGY	1210	100M
Pullman		
KWSC	1220	1000
Seattle		
KEEN	1370	100
KIRO	710	1000 C
KJR	970	5000 B
KOL	1270	1000M
KOMO	920	1000 R
KRSC	1120	250
KTW	1220	1000
KXA	760	250
Spokane		
KFIO	1120	100
KFPY	890	1000 C
KGA	1470	5000 B
KHO	590	1000 R
Tacoma		
KMO	1330	1000M
KVI	570	1000 C
Walla Walla		
KUJ	1370	100
Wenatchee		
KPO	1500	100M
Yakima		
KIT	1250	250M
<b>WEST VIRGINIA</b>		
Bluefield		
WHIS	1410	500
Charleston		
WCBS	580	500 C
Clarksburg		
WBLK	1370	100
Fairmont		
WMMN	890	500 C
Huntington		
WSAZ	1190	1000
Parkersburg		
WPAR	1420	100 C
Wheeling		
WWVA	1160	5000 C
<b>WISCONSIN</b>		
Eau Claire		
WEAU	1050	1000
Fond du Lac		
KFIZ	1420	100
Green Bay		
WBTV	1200	100
WTAQ	1330	1000 C
Janesville		
WCLO	1200	100
LaCrosse		
WKBB	1380	1000 C
Madison		
WHA	940	5000
WIBA	1280	1000 N
Manitowoc		
WOMT	1210	100
Milwaukee		
WEMP	1310	100

WISN	1120	250 C
WTMJ	620	1000 N
Poynette		
WIBU	1210	100
Racine		
WRJN	1370	100
Sheboygan		
WHBL	1300	250
Stevens Point		
WLBL	900	5000
Superior		
WDSM	1200	100
Wausau		
WSAU	1370	100
<b>WYOMING</b>		
Casper		
KDFN	1440	500
Rock Springs		
KVRS	1370	100
Sheridan		
KWYO	1370	100
<b>BAHAMAS</b>		
Nassau		
ZNS	540	400
<b>CANADA</b>		
<b>ALBERTA</b>		
Calgary		
CFAC	930	1000 F
CFCN	1030	10000 F
CJGJ	690	100 F
Edmonton		
CFRN	960	100 F
CJCA	730	1000 F
CKUA	580	500 F
Grande Prairie		
CFGP	1200	100
Lethbridge		
CJOC	950	100 F
<b>BRIT. COLUMBIA</b>		
Chilliwack		
CHWK	780	100 F
Kamloops		
CFJC	880	1000 F
Kelowna		
CKOV	630	100 F
Prince Rupert		
CFPR	580	50
Trail		
CJAT	910	1000 F
Vancouver		
CBR	1100	5000 F
CJOR	600	500
CKCD	1010	100
CKFC	1410	50
CKMO	1410	100
CKWX	1010	100
Victoria		
CFCT	1450	500
<b>MANITOBA</b>		
Brandon		
CKX	1120	1000 F
Flin Flon		
CFAR	1370	100

# NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p>Winnipeg CJRC 630 500 F CKY 910 15000 F</p> <p><b>NEW BRUNSWICK</b></p> <p>Fredericton CFNB 550 500 F Moncton CKCW 1370 100 F St. John CHSJ 1120 500 F</p> <p><b>N. W. TERRITORY</b></p> <p>Aklavik CJCU 1210 50</p> <p><b>NOVA SCOTIA</b></p> <p>Glace Bay VAS 685 2000 Halifax CHNS 930 1000 F Sydney CJCB 1240 1000 F Wolfville CKIC 1010 50 Yarmouth CJLS 1310 100</p> <p><b>ONTARIO</b></p> <p>Brantford CKPC 930 100 F Chatham CFCO 630 100 F Cobalt CKMC 1210 50 Fort William CKPR 730 100 F Hamilton CHML 1010 100 F CKOC 1120 500 F Kenora ..... 1420 100 Kingston CFRC 1510 100 F London CFPL 730 100 F North Bay CFCH 930 100 F CJKL 1310 100 CKGB 1420 100 Ottawa CBO 880 1000 F CKCO 1010 100 F Owen Sound ..... 1370 100 Prescott CFLC 930 100 St. Catharines CKTB 1200 100 F Sault Ste. Marie CJIC 1500 100 Stratford CJCS 1210 50 Sudbury CKSO 780 1000 F Toronto CBL 840 50000 F CFRB 690 10000 C CKCL 580 100 F CRCY 960 100 F</p>	<p>Waterloo CKCR 1510 100 Windsor CKLW 1030 5000 F Wingham CKNX 1200 100</p> <p><b>PRINCE EDWARD ISLAND</b></p> <p>Charlottetown CFCY 630 1000 F CHCK 1310 50 Summerside CHGS 1450 50 F</p> <p><b>QUEBEC</b></p> <p>Chicoutimi CRCS 1120 100 F Hull CKCH 1210 100 F Montreal CBF 910 50000 N CBM 1050 5000 F CFCH 600 500 B CHLP 1120 100 F CKAC 730 5000 C New Carlisle CHNC 960 1000 F Quebec CHRC 580 100 CKCV 1310 100 F CRCK 950 1000 F Rimouski CJBR 1030 1000 F Sherbrooke CHLT 1210 100 Three Rivers CHLN 1420 100</p> <p><b>SASKATCHEWAN</b></p> <p>Moose Jaw CHAB 1200 100 F Prince Albert CKBI 1210 100 F Regina CJRM 540 1000 F CKCK 1010 1000 F Saskatoon CFQC 840 1000 F Yorkton CJGX 1390 100 F</p>	<p>Cardenas CMGE 1370 150 Ciego de Avila CMJH 1360 50 CMJI 1130 150 CMJO 1180 50 Cienfuegos CMHJ 1160 175 CMHM 1450 100 CMHX 760 200 Cruces CMHK 1330 250 Guantanamo CMKS 960 .....</p> <p>Havana CMBC 950 10000 CMBD 1260 500 CMBF 770 10000 CMBL 750 2500 CMBQ 680 5000 CMBS 1170 150 CMBX 1070 500 CMBY 970 150 CMBZ 1000 500 CMC 1260 150 CMCA 1350 450 CMCB 1230 150 CMCD 630 250 CMCF 810 600 CMCG 680 1000 CMCJ 1110 500 CMCK 1030 .....</p> <p>CMCL 730 10000 CMCM 850 .....</p> <p>CMCO 1200 250 CMCQ 1410 5000 CMCR 1380 .....</p> <p>CMCU 1290 500 CMCW 1140 500 CMCX 1380 150 CMCY 570 5000 CMK 720 3000 CMOA 1440 150 CMOX 1320 200 CMQ 600 25000 CMW 880 1400 CMX 920 1000 ..... 630 10000</p> <p>Holguin CMFK 1460 250 CMKO 1280 .....</p> <p>Manzanillo CMKM 1120 200 Matanzas CMGC 1400 150 CMGF 1120 250 CMGH 790 500 Moron CMJP 1430 75 Pinar del Rio CMAB 1340 300 Sagua la Grande CMHA 1070 50 Sancti Spiritus CMHB 1240 50 Santa Clara CMHI 1210 150 CMHW 820 100 Santiago CMKC 1250 150 CMKD 1050 250 CMKG 1160 .....</p>	<p>CMKW 1350 .... CMKX 1190 ....</p> <p><b>DOMINICAN REPUBLIC</b></p> <p>Trujillo HIX 800 800</p> <p><b>GUATEMALA</b></p> <p>Guatemala City TGW 1520 1000</p> <p><b>MEXICO</b></p> <p><b>AGUASCALIENTES</b></p> <p>Aguascalientes XEBI 1000 25</p> <p><b>BAJA CALIFORNIA</b></p> <p>Mexicali XEAA 750 200 XEAO 660 250 Rosarito Beach XERB 730 100000 Tijuana XEAC 980 1000 XEBG 820 1000 XEC 1150 100 XELO 580 10000 XEMO 860 5000 XEOK 760 2500</p> <p><b>CHIHUAHUA</b></p> <p>Chihuahua XEBU 1200 50 XEFI 1440 250 Juarez XEFV 1210 100 XEF 1450 100 XEJ 1020 1000 XEP 1160 500 Parral XEAT 1210 250</p> <p><b>COAHUILA</b></p> <p>Piedras Negras XEMU 580 250 XEPN 730 100000 Sabinas XERB 640 250 Saltillo XEAS 1160 100 XELA 1240 50 Torreón XETB 1310 125 Villa Acuna XEDH 1340 200 XERA 840 250000</p> <p><b>D. F.</b></p> <p>Gral. Anaya XEDA 1220 200</p>
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## NORTH AMERICAN B. C. STATIONS BY LOCATIONS

<p><b>Mexico City</b></p> <p>XEAI 1250 500 XEAL 660 1000 XEB 1030 10000 XEBS 1340 200 XEBZ 810 100 XEDP 1080 500 XEJP 1130 100 XEW 870 500 XEK 890 100 XEL 1100 250 XELZ 1370 100 XEMX 1280 100 XEN 780 1000 XENC 860 50 XEW 890 50000 XEXM 610 500 XEXS 1310 100 XEYO 610 500</p> <p style="text-align: center;"><b>DURANGO</b></p> <p>Durango XEBP 1150 250 XEE 1210 50</p> <p style="text-align: center;"><b>GUANAJUATO</b></p> <p>Irapuato XEBO 1310 25</p>	<p><b>Leon</b></p> <p>XEFM 1160 20 XEKL 1240 500</p> <p style="text-align: center;"><b>JALISCO</b></p> <p><b>Guadalajara</b></p> <p>XED 1160 2500 Guzman XEBA 1080 20</p> <p style="text-align: center;"><b>MICHOACAN</b></p> <p><b>Morelia</b></p> <p>XEI 1370 125</p> <p style="text-align: center;"><b>NUEVO LEON</b></p> <p><b>Monterrey</b></p> <p>XEFB 870 200 XEG 1230 250 XEH 720 250 XET 600 5000 XEX 1310 125</p> <p style="text-align: center;"><b>PUEBLA</b></p> <p><b>Puebla</b></p> <p>XETH 1210 100</p> <p style="text-align: center;"><b>SAN LUIS POTOSI</b></p> <p><b>San Luis Potosi</b></p> <p>XEFW 1370 100 XEXH 1250 250</p>	<p style="text-align: center;"><b>SINALOA</b></p> <p><b>Mazatlan</b></p> <p>XEBL 1220 50</p> <p style="text-align: center;"><b>SONORA</b></p> <p><b>Cananea</b></p> <p>XEFQ 1010 50 Hermosillo XEBH 930 500</p> <p><b>Nogales</b></p> <p>XEAF 990 750</p> <p><b>Obregon</b></p> <p>XEAP 1340 50</p> <p style="text-align: center;"><b>TAMAULIPAS</b></p> <p><b>Matamoros</b></p> <p>XEAM 750 25 Nuevo Laredo XEBK 1080 100 XEDF 810 100 XEFE 980 250 XENT 910 150000</p> <p><b>Reynosa</b></p> <p>XEAW 960 100000</p> <p><b>Tampico</b></p> <p>XEFW 1310 300 XES 990 250</p>	<p style="text-align: center;"><b>VERACRUZ</b></p> <p><b>Cordoba</b></p> <p>XEAG 1310 10 Jalapa XEXB 1270 250 XEXD 1340 350 Minatitlan XEDW 1150 20 Veracruz XETF 1220 12 XEU 1010 250</p> <p style="text-align: center;"><b>YUCATAN</b></p> <p><b>Merida</b></p> <p>XEFC 550 100 XEME 1240 50 XEZ 630 500</p> <p style="text-align: center;"><b>MIQUELON</b></p> <p><b>St. Pierre</b></p> <p>FQN 609 250</p> <p style="text-align: center;"><b>NEWFOUNDLAND</b></p> <p><b>St. John's</b></p> <p>VOAC 1065 40 VOAS 940 100 VOCM 1006 200 VOG 840 400 YONF 1195 500 VOWR 681 500</p>
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## NORTH AMERICAN B. C. STATIONS BY CALLS

✓	<b>CBF</b> 910 50000 Montreal, P. Q.	✓	<b>CFNB</b> 550 500 Fredericton, N. B.	✓	<b>CHSJ</b> 1120 500 St. John, N. B.
✓	<b>CBL</b> 840 50000 Toronto, Ont.	✓	<b>CFPL</b> 730 100 London, Ont.	✓	<b>CHWK</b> 780 100 Chilliwack, B. C.
✓	<b>CBM</b> 1050 5000 Montreal, P. Q.	✓	<b>CFPR</b> 580 50 Prince Rupert, B. C.	✓	<b>CJAT</b> 910 1000 Trall, B. C.
✓	<b>CBO</b> 880 1000 Ottawa, Ont.	✓	<b>CFQC</b> 840 1000 Saskatoon, Sask.	✓	<b>CJBR</b> 1030 1000 Rimouski, P. Q.
✓	<b>CBR</b> 1100 5000 Vancouver, B. C.	✓	<b>CFRB</b> 690 10000 Toronto, Ont.	✓	<b>CJCA</b> 730 1000 Edmonton, Alta.
✓	<b>CFAC</b> 930 1000 Calgary, Alta.	✓	<b>CFRC</b> 1510 100 Kingston, Ont.	✓	<b>CJCB</b> 1240 1000 Sydney, N. S.
✓	<b>CFAR</b> 1370 100 Flin Flon, Man.	✓	<b>CFRN</b> 960 100 Edmonton, Alta.	✓	<b>CJJC</b> 690 100 Calgary, Alta.
✓	<b>CFCF</b> 600 500 Montreal, Que.	✓	<b>CHAB</b> 1200 100 Moose Jaw, Sask.	✓	<b>CJCS</b> 1210 50 Stratford, Ont.
✓	<b>CFCH</b> 930 100 North Bay, Ont.	✓	<b>CHCK</b> 1310 50 Charlottetown, P.E.I.	✓	<b>CJCU</b> 1210 50 Aklavik, N. W. T.
✓	<b>CFCN</b> 1030 10000 Calgary, Alta.	✓	<b>CHGS</b> 1450 50 Summerside, P.E.I.	✓	<b>CJGJ</b> 1390 100 Yorkton, Sask.
✓	<b>CFCO</b> 630 100 Chatham, Ont.	✓	<b>CHLN</b> 1420 100 Three Rivers, P. Q.	✓	<b>CJIC</b> 1500 100 S. Ste. Marie, Ont.
✓	<b>CFCT</b> 1450 500 Victoria, B. C.	✓	<b>CHLP</b> 1120 100 Montreal, Que.	✓	<b>CJKL</b> 1310 100 North Bay, Ont.
✓	<b>CFCY</b> 630 1000 Charlottetown, P.E.I.	✓	<b>CHLT</b> 1210 100 Sherbrooke, P. Q.	✓	<b>CJLS</b> 1310 100 Yarmouth, N. S.
✓	<b>CFGP</b> 1200 100 Grande Prairie, Alta.	✓	<b>CHML</b> 1010 100 Hamilton, Ont.	✓	<b>CJOC</b> 950 100 Lethbridge, Alta.
✓	<b>CFJC</b> 880 1000 Kamloops, B. C.	✓	<b>CHNC</b> 960 1000 New Carlisle, Que.	✓	<b>CJOR</b> 600 500 Vancouver, B. C.
✓	<b>CFLC</b> 930 100 Prescott, Ont.	✓	<b>CHNS</b> 930 1000 Halifax, N. S.	✓	<b>CJRC</b> 630 500 Winnipeg, Man.
✓		✓	<b>CHRC</b> 580 100 Quebec, Que.	✓	<b>CJRM</b> 540 1000 Regina, Sask.

NORTH AMERICAN B. C. STATIONS BY CALLS

✓	<b>CKAC</b> 730 Montreal, Que.	5000		<b>CMBY</b> 970 Havana, Cuba	150		<b>CMJF</b> 1150 Camaguey, Cuba	200
	<b>CKBI</b> 1210 Prince Albert, Sask.	100		<b>CMBZ</b> 1000 Havana, Cuba	500		<b>CMJH</b> 1360 Ciego de Avila, Cuba	50
	<b>CKCD</b> 1010 Vancouver, B. C.	100		<b>CMC</b> 1260 Havana, Cuba	150		<b>CMJI</b> 1130 Ciego de Avila, Cuba	150
✓	<b>CKCH</b> 1210 Hull, Que.	100		<b>CMCA</b> 1350 Havana, Cuba	450		<b>CMJK</b> 780 Camaguey, Cuba	250
	<b>CKCK</b> 1010 Regina, Sask.	1000		<b>CMCB</b> 1230 Havana, Cuba	150		<b>CMJL</b> 1340 Camaguey, Cuba	75
	<b>CKCL</b> 580 Toronto, Ont.	100		<b>CMCD</b> 630 Havana, Cuba	250		<b>CMJO</b> 1180 Ciego de Avila, Cuba	50
	<b>CKCO</b> 1010 Ottawa, Ont.	100	✓	<b>CMCF</b> 810 Havana, Cuba	600		<b>CMJP</b> 1430 Camaguey, Cuba	75
✓	<b>CKCR</b> 1510 Waterloo, Ont.	100		<b>CMCG</b> 680 Havana, Cuba	1000		<b>CMJQ</b> 830 Camaguey, Cuba	500
	<b>CKCV</b> 1310 Quebec, Que.	100		<b>CMCJ</b> 1110 Havana, Cuba	500		<b>CMK</b> 720 Havana, Cuba	3000
	<b>CKCW</b> 1370 Moncton, N. B.	100		<b>CMCK</b> 1030 Havana, Cuba	...		<b>CMKC</b> 1250 Santiago, Cuba	150
	<b>CKFC</b> 1410 Vancouver, B. C.	50		<b>CMCL</b> 730 Havana, Cuba	10000		<b>CMKD</b> 1050 Santiago, Cuba	250
	<b>CKGB</b> 1420 North Bay, Ont.	100		<b>CMCM</b> 850 Havana, Cuba	....		<b>CMKF</b> 1460 Holguin, Cuba	250
	<b>CKIC</b> 1010 Wolfville, N. S.	50		<b>CMCO</b> 1200 Havana, Cuba	250		<b>CMKG</b> 1160 Santiago, Cuba	....
✓	<b>CKLW</b> 1030 Windsor, Ont.	5000		<b>CMCQ</b> 1410 Havana, Cuba	5000		<b>CMKM</b> 1120 Manzanillo, Cuba	200
	<b>CKMC</b> 1210 Cobalt, Ont.	50		<b>CMCR</b> 1380 Havana, Cuba	....		<b>CMKO</b> 1280 Holguin, Cuba	....
	<b>CKMO</b> 1410 Vancouver, B. C.	100		<b>CMCU</b> 1290 Havana, Cuba	500		<b>CMKR</b> 1400 Santiago, Cuba	100
	<b>CKNX</b> 1200 Wingham, Ont.	100		<b>CMCW</b> 1140 Havana, Cuba	500		<b>CMKS</b> 960 Guantanamo, Cuba	....
✓	<b>CKOC</b> 1120 Hamilton, Ont.	500		<b>CMCX</b> 1380 Havana, Cuba	150		<b>CMKW</b> 1350 Santiago, Cuba	....
	<b>CKOV</b> 630 Kelowna, B. C.	100		<b>CMCY</b> 570 Havana, Cuba	5000		<b>CMKX</b> 1190 Santiago, Cuba	....
	<b>CKPC</b> 930 Brantford, Ont.	100		<b>CMGC</b> 1400 Matanzas, Cuba	150		<b>CMOA</b> 1440 Havana, Cuba	150
	<b>CKPR</b> 730 Fort William, Ont.	100		<b>CMGE</b> 1370 Cardenas, Cuba	150		<b>CMOX</b> 1320 Havana, Cuba	200
	<b>CKSO</b> 780 Sudbury, Ont.	1000		<b>CMGF</b> 1120 Matanzas, Cuba	250	✓	<b>CMQ</b> 600 Havana, Cuba	25000
✓	<b>CKTB</b> 1200 St. Catharines, Ont.	100		<b>CMGH</b> 790 Matanzas, Cuba	500		<b>CMW</b> 880 Havana, Cuba	1400
	<b>CKUA</b> 580 Edmonton, Alta.	500		<b>CMHA</b> 1070 Sagua la Grande, Cuba	50	✓	<b>CMX</b> 920 Havana, Cuba	1000
	<b>CKWX</b> 1010 Vancouver, B. C.	100		<b>CMHB</b> 1240 Sancti Spiritus, Cuba	50	✓	<b>CRCK</b> 950 Quebec, Que.	1000
	<b>CKX</b> 1120 Brandon, Man.	1000		<b>CMHD</b> 1270 Calbarien, Cuba	250	✓	<b>CRCS</b> 1120 Chicotimi, Que.	100
	<b>CKY</b> 910 Winnipeg, Man.	15000		<b>CMHI</b> 1210 Santa Clara, Cuba	150	✓	<b>CRCY</b> 960 Toronto, Ont.	100
	<b>CMAB</b> 1340 Pinar del Rio, Cuba	300		<b>CMHJ</b> 1160 Cienfuegos, Cuba	175	✓	<b>FGN</b> 609 St. Pierre, Miquelon	250
	<b>CMBC</b> 950 Havana, Cuba	10000		<b>CMHK</b> 1330 Cruces, Cuba	250	✓	<b>HIX</b> 800 Trujillo, D. R.	800
	<b>CMBD</b> 1260 Havana, Cuba	500		<b>CMHM</b> 1450 Cienfuegos, Cuba	100	✓	<b>KABC</b> 1420 San Antonio, Texas	100
	<b>CMBF</b> 770 Havana, Cuba	10000		<b>CMHW</b> 820 Santa Clara, Cuba	100	✓	<b>KABR</b> 1420 Aberdeen, S. Dak.	100
	<b>CMBL</b> 750 Havana, Cuba	2500		<b>CMHX</b> 760 Cienfuegos, Cuba	200	✓	<b>KADA</b> 1200 Ada, Okla.	100
	<b>CMBQ</b> 680 Havana, Cuba	5000		<b>CMJA</b> 1010 Camaguey, Cuba	300	✓	<b>KALB</b> 1210 Alexandria, La.	100
	<b>CMBS</b> 1170 Havana, Cuba	150		<b>CMJC</b> 1390 Camaguey, Cuba	150	✓	<b>KALE</b> 1300 Portland, Ore.	500
	<b>CMBX</b> 1070 Havana, Cuba	500		<b>CMJE</b> 1220 Camaguey, Cuba	50	✓	<b>KAND</b> 1310 Corsicana, Texas	100
						✓	<b>KANS</b> 1210 Wichita, Kans	100



## NORTH AMERICAN B. C. STATIONS BY CALLS

	<b>KARK</b> 890 Little Rock, Ark.	500		<b>KFAM</b> 1420 St. Cloud, Minn.	100		<b>KFXD</b> 1200 Nampa, Idaho	100
	<b>KARM</b> 1310 Fresno, Calif.	100		<b>KFBB</b> 1280 Great Falls, Mont.	1000		<b>KFXJ</b> 1200 Grand Junction, Colo.	100
	<b>KASA</b> 1210 Elk City, Okla.	100		<b>KFBI</b> 1050 Ablene, Kans.	5000		<b>KFXM</b> 1210 San Bernardino, Calif.	100
	<b>KAST</b> 1370 Astoria, Ore.	100	✓	<b>KFBK</b> 1490 Sacramento, Calif.	5000		<b>KFXR</b> 1310 Oklahoma City, Okla.	100
	<b>KATE</b> 1420 Albert Lea, Minn.	250		<b>KFDM</b> 560 Beaumont, Texas	500	✓	<b>KFYO</b> 1310 Lubbock, Texas	100
	<b>KAWM</b> 1500 Gallup, N. Mex.	100		<b>KFDY</b> 780 Brookings, S. D.	1000		<b>KFYR</b> 550 Bismarek, N. D.	1000
	<b>KBIX</b> 1500 Muskogee, Okla.	100	✓	<b>KFEL</b> 920 Denver, Colo.	500		<b>KGA</b> 1470 Spokane, Wash.	5000
	<b>KBPS</b> 1420 Portland, Ore.	100		<b>KFEQ</b> 680 St. Joseph, Mo.	2500	✓	<b>KGAR</b> 1370 Tucson, Ariz.	100
✓	<b>KBST</b> 1500 Big Spring, Texas	100	✓	<b>KFGQ</b> 1370 Boone, Iowa	100		<b>KGB</b> 1330 San Diego, Calif.	1000
✓	<b>KBTM</b> 1200 Jonesboro, Ark.	100	✓	<b>KFH</b> 1300 Wichita, Kans.	1000		<b>KGBU</b> 900 Ketchikan, Alaska	500
	<b>KCKN</b> 1310 Kansas City, Kans.	100	✓	<b>KFI</b> 640 Los Angeles, Calif.	50000		<b>KGBX</b> 1230 Springfield, Mo.	500
	<b>KCMC</b> 1420 Texarkana, Texas	100		<b>KFIO</b> 1120 Spokane, Wash.	100		<b>KGCA</b> 1270 Decorah, Iowa	100
✓	<b>KCMO</b> 1370 Kansas City, Mo.	100		<b>KFIZ</b> 1420 Fond du Lac, Wis.	100		<b>KGCI</b> 1200 Coeur d'Alene, Idaho	100
	<b>KCRC</b> 1360 Enid, Okla.	250	✓	<b>KFJB</b> 1200 Marshalltown, Iowa	100	✓	<b>KGCU</b> 1240 Mandan, N. D.	250
	<b>KCRJ</b> 1310 Jerome, Ariz.	100		<b>KFJI</b> 1210 Klamath Falls, Ore.	100		<b>KGCX</b> 1450 Wolf Point, Mont.	1000
	<b>KDAL</b> 1500 Duluth, Minn.	100	✓	<b>KFJM</b> 1410 Grand Forks, N. D.	500		<b>KGDE</b> 1200 Fergus Falls, Minn.	100
	<b>KDB</b> 1500 Santa Barbara, Calif.	100		<b>KFJZ</b> 1370 Fort Worth, Texas	100		<b>KGDM</b> 1100 Stockton, Calif.	1000
	<b>KDFN</b> 1440 Casper, Wyo.	500		<b>KFKA</b> 880 Greeley, Colo.	500		<b>KGDY</b> 1340 Huron, S. D.	250
✓	<b>KDKA</b> 980 Pittsburgh, Pa.	50000		<b>KFKU</b> 1220 Lawrence, Kans.	1000		<b>KGEK</b> 1200 Sterling, Colo.	100
	<b>KDLR</b> 1210 Devils Lake, N. D.	100		<b>KFNF</b> 890 Shenandoah, Iowa	500	✓	<b>KGER</b> 1360 Long Beach, Calif.	1000
	<b>KDNC</b> 1200 Lewistown, Mont.	100		<b>KFOR</b> 1210 Lincoln, Neb.	100	✓	<b>KGEZ</b> 1310 Kallspeil, Mont.	100
	<b>KDON</b> 1210 Monterey, Calif.	100		<b>KFOX</b> 1250 Long Beach, Calif.	1000	✓	<b>KGFF</b> 1420 Shawnee, Okla.	100
	<b>KDTH</b> 1340 Dubuque, Iowa	500	✓	<b>KFPL</b> 1310 Dublin, Texas	100	✓	<b>KGFI</b> 1500 Brownsville, Tex.	100
✓	<b>KDYL</b> 1290 Salt Lake City, Utah	1000	✓	<b>KFPW</b> 1210 Fort Smith, Ark.	100		<b>KGFJ</b> 1200 Los Angeles, Calif.	100
✓	<b>KECA</b> 1430 Los Angeles, Calif.	1000		<b>KFPY</b> 890 Spokane, Wash.	1000		<b>KGFL</b> 1370 Roswell, N. M.	100
	<b>KEEN</b> 1370 Seattle, Wash.	100		<b>KFQD</b> 780 Anchorage, Alaska	250		<b>KGFW</b> 1310 Kearney, Neb.	100
	<b>KEHE</b> 780 Los Angeles, Calif.	1000		<b>KFRC</b> 610 San Francisco, Calif.	1000		<b>KGFX</b> 630 Pierre, S. D.	200
	<b>KELA</b> 1440 Centralia, Wash.	500	✓	<b>KFRD</b> 1370 Longview, Texas	250		<b>KGGC</b> 1420 San Francisco, Calif.	100
✓	<b>KELD</b> 1370 El Dorado, Ark.	100		<b>KFRU</b> 630 Columbia, Mo.	500		<b>KGGF</b> 1010 Coffeyville, Kans.	1000
	<b>KELO</b> 1200 Sioux Falls, S. Dak.	100		<b>KFSD</b> 600 San Diego, Calif.	1000	✓	<b>KGGM</b> 1230 Albuquerque, N. M.	1000
	<b>KERN</b> 1370 Bakersfield, Calif.	100		<b>KFSG</b> 1120 Los Angeles, Calif.	500	✓	<b>KGHF</b> 1320 Pueblo, Colo.	500
✓	<b>KEUB</b> 1420 Price, Utah	100		<b>KFUO</b> 550 St. Louis, Mo.	500	✓	<b>KGHI</b> 1200 Little Rock, Ark.	100
	<b>KEX</b> 1180 Portland, Ore.	5000		<b>KFVD</b> 1000 Los Angeles, Calif.	1000		<b>KGHL</b> 780 Billings, Mont.	1000
	<b>KFAB</b> 770 Lincoln, Neb.	10000		<b>KFVS</b> 1210 Cape Girardeau, Mo.	100		<b>KGIR</b> 1340 Butte, Mont.	1000
✓	<b>KFAC</b> 1300 Los Angeles, Calif.	1000		<b>KFWB</b> 950 Hollywood, Calif.	1000		<b>KGIW</b> 1420 Alamosa, Colo.	100

NORTH AMERICAN B. C. STATIONS BY CALLS

✓	<b>KGKB</b> 1500 100 Tyler, Texas			<b>KJR</b> 970 5000 Seattle, Wash.			<b>KOIN</b> 940 1000 Portland, Ore.
	<b>KGKL</b> 1370 100 San Angelo, Texas	✓		<b>KLAH</b> 1210 100 Carlsbad, N. Mex.		✓	<b>KOKO</b> 1370 100 La Junta, Colo.
✓	<b>KGKO</b> 570 250 Wichita Falls, Texas			<b>KLBM</b> 1420 100 La Grande, Ore.			<b>KOL</b> 1270 1000 Seattle, Wash.
	<b>KGKY</b> 1500 100 Scottsbluff, Neb.	✓		<b>KLCN</b> 1290 100 Blytheville, Ark.		✓	<b>KOMA</b> 1480 5000 Oklahoma City, Okla.
✓	<b>KGLO</b> 1210 100 Mason City, Iowa	✓		<b>KLO</b> 1400 500 Ogden, Utah			<b>KOMO</b> 920 1000 Seattle, Wash.
	<b>KGMB</b> 1320 1000 Honolulu, T. H.			<b>KLPM</b> 1240 250 Minot, N. D.		✓	<b>KONO</b> 1370 100 San Antonio, Texas
	<b>KGNC</b> 1410 1000 Amarillo, Texas			<b>KLRA</b> 1390 1000 Little Rock, Ark.			<b>KOOS</b> 1200 100 Marshfield, Ore.
	<b>KGNF</b> 1430 1000 North Platte, Neb.			<b>KLS</b> 1280 250 Oakland, Calif.			<b>KORE</b> 1420 100 Eugene, Ore.
	<b>KGNO</b> 1340 250 Dodge City, Kans.			<b>KLUF</b> 1370 100 Galveston, Texas		✓	<b>KOTN</b> 1500 100 Pine Bluff, Ark.
	<b>KGO</b> 790 7500 San Francisco, Calif.			<b>KLX</b> 880 1000 Oakland, Calif.		✓	<b>KOV</b> 1500 100 Valley City, N. Dak.
	<b>KGU</b> 750 2500 Honolulu, T. H.	✓		<b>KLZ</b> 560 1000 Denver, Colo.			<b>KOY</b> 1390 1000 Phoenix, Ariz.
	<b>KGVL</b> 1200 100 Greenville, Texas			<b>KMA</b> 930 1000 Shenandoah, Iowa		✓	<b>KPAC</b> 1260 500 Port Arthur, Texas
	<b>KGVO</b> 1260 1000 Missoula, Mont.	✓		<b>KMAC</b> 1370 100 San Antonio, Texas		✓	<b>KPDN</b> 1310 100 Pampa, Texas
	<b>KGW</b> 620 1000 Portland, Ore.	✓		<b>KMBC</b> 950 1000 Kansas City, Mo.			<b>KPFA</b> 1210 100 Helena, Mont.
	<b>KGY</b> 1210 100 Olympia, Wash.			<b>KMED</b> 1410 250 Medford, Ore.			<b>KPLC</b> 1500 100 Lake Charles, La.
	<b>KHBC</b> 1400 250 Hilo, T. H.			<b>KMJ</b> 580 1000 Fresno, Calif.		✓	<b>KPLT</b> 1500 100 Paris, Texas
	<b>KHBG</b> 1210 100 Okmulgee, Okla.	✓		<b>KMLB</b> 1200 100 Monroe, La.			<b>KPMC</b> 1550 1000 Bakersfield, Calif.
	<b>KHJ</b> 900 1000 Los Angeles, Calif.			<b>KMMJ</b> 740 1000 Clay Center, Neb.		✓	<b>KPO</b> 680 5000 San Francisco, Calif.
	<b>KHQ</b> 590 1000 Spokane, Wash.			<b>KMO</b> 1330 1000 Tacoma, Wash.			<b>KPOF</b> 880 1000 Denver, Colo.
	<b>KHSL</b> 1260 250 Chico, Calif.			<b>KMOX</b> 1090 5000 St. Louis, Mo.			<b>KPPC</b> 1210 100 Pasadena, Calif.
	<b>KHUB</b> 1310 250 Watsonville, Calif.	✓		<b>KMPC</b> 710 500 Beverly Hills, Calif.			<b>KPQ</b> 1500 100 Wenatchee, Wash.
✓	<b>KICA</b> 1370 100 Clovis, N. M.			<b>KMTR</b> 570 1000 Los Angeles, Calif.		✓	<b>KPRC</b> 920 1000 Houston, Texas
	<b>KID</b> 1320 500 Idaho Falls, Idaho	✓		<b>KNEL</b> 1500 250 Brady, Texas		✓	<b>KQV</b> 1380 500 Pittsburgh, Pa.
	<b>KIDO</b> 1350 1000 Boise, Idaho			<b>KNET</b> 1420 100 Palestine, Texas			<b>KQW</b> 1010 1000 San Jose, Calif.
	<b>KIDW</b> 1420 100 Lamar, Colo.			<b>KNOW</b> 1500 100 Austin, Texas			<b>KRBA</b> 1310 100 Lufkin, Texas
✓	<b>KIEM</b> 1450 500 Eureka, Calif.	✓		<b>KNX</b> 1050 5000 Los Angeles, Calif.		✓	<b>KRBC</b> 1420 100 Ablene, Texas
	<b>KIEV</b> 850 250 Glendale, Calif.	✓		<b>KOA</b> 830 5000 Denver, Colo.			<b>KRE</b> 1370 100 Berkeley, Calif.
	<b>KINY</b> 1310 100 Juneau, Alaska			<b>KOAC</b> 550 1000 Corvallis, Ore.		✓	<b>KRGV</b> 1260 1000 Weslaco, Texas
	<b>KIRO</b> 710 1000 Seattle, Wash.			<b>KOAM</b> 790 1000 Pittsburg, Kans.		✓	<b>KRIS</b> 1330 500 Corpus Christi, Tex.
	<b>KIT</b> 1250 250 Yakima, Wash.	✓		<b>KOB</b> 1180 10000 Albuquerque, N. M.			<b>KRKD</b> 1120 500 Los Angeles, Calif.
✓	<b>KIUL</b> 1210 100 Garden City, Kans.			<b>KOBH</b> 1370 100 Rapid City, S. Dak.		✓	<b>KRKO</b> 1370 50 Everett, Wash.
✓	<b>KIUN</b> 1420 100 Pecos, Texas	✓		<b>KOCA</b> 1210 100 Kilgore, Texas			<b>KRLC</b> 1390 250 Lewiston, Idaho
✓	<b>KIUP</b> 1370 100 Durango, Colo.			<b>KOH</b> 1380 500 Reno, Nev.			<b>KRLD</b> 1040 1000 Dallas, Texas
	<b>KJBS</b> 1070 500 San Francisco, Calif.			<b>KOIL</b> 1260 1000 Omaha, Neb.			

## NORTH AMERICAN B. C. STATIONS BY CALLS

	<b>KRLH</b> 1420 100 Midland, Texas		<b>KTMS</b> 1220 500 Santa Barbara, Calif. ✓		<b>KWLC</b> 1270 100 Decorah, Iowa
	<b>KRMC</b> 1370 100 Jamestown, N. Dak.	✓	<b>KTOK</b> 1370 100 Oklahoma City, Okla.		<b>KWLK</b> 780 250 Longview, Wash.
	<b>KRMD</b> 1310 100 Shreveport, La.		<b>KTRB</b> 740 250 Modesto, Calif.		<b>KWNO</b> 1200 250 Winona, Minn.
✓	<b>KRRR</b> 1500 100 Roseburg, Ore.	✓	<b>KTRH</b> 1290 1000 Houston, Texas		<b>KWOC</b> 1310 100 Poplar Bluff, Mo.
	<b>KRNT</b> 1320 1000 Des Moines, Iowa		<b>KTRI</b> 1420 100 Sloux City, Iowa	✓	<b>KWOS</b> 1310 100 Jefferson City, Mo.
✓	<b>KROC</b> 1310 100 Rochester, Minn.		<b>KTSA</b> 550 1000 San Antonio, Texas		<b>KWSC</b> 1220 1000 Pullman, Wash.
	<b>KROD</b> 1500 100 El Paso, Texas	✓	<b>KTSM</b> 1310 100 El Paso, Texas	✓	<b>KWTN</b> 1210 100 Watertown, S. Dak.
	<b>KROW</b> 930 1000 Oakland, Calif.		<b>KTUL</b> 1400 500 Tulsa, Okla.		<b>KWTO</b> 560 5000 Springfield, Mo.
	<b>KROY</b> 1210 100 Sacramento, Calif.		<b>KTW</b> 1220 1000 Seattle, Wash.	✓	<b>KWYO</b> 1370 100 Sheridan, Wyo.
	<b>KRQA</b> 1310 100 Santa Fe, N. Mex.		<b>KUJ</b> 1370 100 Walla Walla, Wash.		<b>KXA</b> 760 250 Seattle, Wash.
✓	<b>KRRV</b> 1310 250 Sherman, Texas		<b>KUMA</b> 1420 100 Yuma, Ariz.	✓	<b>KXBY</b> 1530 1000 Kansas City, Mo.
	<b>KRSC</b> 1120 250 Seattle, Wash.		<b>KUOA</b> 1260 5000 Siloam Springs, Ark.		<b>KXL</b> 1420 100 Portland, Ore.
	<b>KSAC</b> 580 500 Manhattan, Kans.		<b>KUSD</b> 890 500 Vermillion, S. Dak.	✓	<b>KXO</b> 1500 100 El Centro, Calif.
	<b>KSAL</b> 1500 100 Salina, Kans.		<b>KUTA</b> 1500 100 Salt Lake City, Utah		<b>KXOK</b> 1250 1000 St. Louis, Mo.
	<b>KSCJ</b> 1330 1000 Sioux City, Iowa		<b>KVCV</b> 1200 100 Redding, Calif.		<b>KXRO</b> 1310 100 Aberdeen, Wash.
	<b>KSD</b> 550 1000 St. Louis, Mo.		<b>KVEC</b> 1200 250 San Luis Obispo, Cal.	✓	<b>KXYZ</b> 1440 1000 Houston, Texas
	<b>KSEI</b> 900 250 Pocatello, Idaho		<b>KVGB</b> 1370 100 Great Bend, Kans.	✓	<b>KYA</b> 1230 1000 San Francisco, Calif.
	<b>KSFO</b> 560 1000 San Francisco, Calif.		<b>KVI</b> 570 1000 Tacoma, Wash.		<b>KYOS</b> 1040 250 Merced, Calif.
✓	<b>KSL</b> 1130 50000 Salt Lake City, Utah	✓	<b>KVOA</b> 1260 1000 Tucson, Ariz.		<b>KYSM</b> 1590 100 Mankato, Minn.
	<b>KSML</b> 1370 100 Salem, Ore.		<b>KVOD</b> 920 500 Denver, Colo.	✓	<b>KYW</b> 1020 10000 Philadelphia, Pa.
✓	<b>KSO</b> 1430 500 Des Moines, Iowa		<b>KVOE</b> 1500 100 Santa Ana, Calif.		<b>TGW</b> 1520 1000 Guatemala City, Guat.
	<b>KS00</b> 1110 2500 Sioux Falls, S. Dak.		<b>KVOL</b> 1310 100 Lafayette, La.		<b>TG1</b> 1510 Guatemala City, Guat.
	<b>KSRO</b> 1310 250 Santa Rosa, Calif.	✓	<b>KVOO</b> 1140 25000 Tulsa, Okla.		<b>TIEP</b> 880 1000 San Jose, Costa Rica
✓	<b>KSTP</b> 1460 10000 St. Paul, Minn.	✓	<b>KVOR</b> 1270 1000 Colorado Springs, Colo.		<b>TIPG</b> 625 2000 San Jose, Costa Rica
	<b>KSUB</b> 1310 100 Cedar City, Utah		<b>KVOS</b> 1200 100 Bellingham, Wash.		<b>TIX</b> 650 San Jose, Costa Rica
✓	<b>KSUN</b> 1200 100 Lowell, Ariz.		<b>KVOX</b> 1310 100 Moorhead, Minn.		<b>VAS</b> 685 2000 Glace Bay, N. S.
	<b>KTAR</b> 620 1000 Phoenix, Ariz.		<b>KVRS</b> 1370 100 Rock Springs, Wyo.		<b>VOAC</b> 1065 40 St. John's, Nfld.
	<b>KTAT</b> 1240 1000 Fort Worth, Texas	✓	<b>KVSO</b> 1210 100 Ardmore, Okla.		<b>VOAS</b> 940 100 St. John's, Nfld.
	<b>KTBC</b> 1120 1000 Austin, Texas		<b>KWBG</b> 1420 100 Hutchinson, Kans.		<b>VOCM</b> 1006 200 St. John's, Nfld.
	<b>KTBS</b> 1450 1000 Shreveport, La.		<b>KWEW</b> 1500 100 Hobbs, N. Mex.		<b>VOGY</b> 840 400 St. John's, Nfld.
	<b>KTEM</b> 1370 250 Temple, Texas		<b>KWC</b> 1200 100 Stockton, Calif.		<b>VONF</b> 1195 500 St. John's, Nfld.
	<b>KTFI</b> 1240 1000 Twin Falls, Idaho		<b>KWJJ</b> 1040 500 Portland, Ore.		<b>VOWR</b> 681 500 St. John's, Nfld.
✓	<b>KTHS</b> 1060 10000 Hot Springs, Ark.	✓	<b>KWK</b> 1350 1000 St. Louis, Mo.	✓	<b>WAAB</b> 1410 500 Boston, Mass.
	<b>KTCK</b> 1190 250 Visalia, Calif.	✓	<b>KWKH</b> 1100 10000 Shreveport, La.		<b>WAAF</b> 920 1000 Chicago, Ill.
				✓	<b>WAAT</b> 940 500 Jersey City, N. J.
					<b>WAAW</b> 660 500 Omaha, Neb.

## NORTH AMERICAN B. C. STATIONS BY CALLS

✓	<b>WABC</b> 860	50000	✓	<b>WBEN</b> 900	1000	✓	<b>WCBM</b> 1370	100
	New York, N. Y.		✓	Buffalo, N. Y.		✓	Baltimore, Md.	
✓	<b>WABI</b> 1200	100	✓	<b>WBEO</b> 1310	100	✓	<b>WCBS</b> 1420	100
	Bangor, Maine		✓	Marquette, Mich.		✓	Springfield, Ill.	
✓	<b>WABY</b> 1370	100	✓	<b>WBHP</b> 1200	100	✓	<b>WCCO</b> 810	50000
	Albany, N. Y.		✓	Huntsville, Ala.		✓	Minneapolis, Minn.	
✓	<b>WACO</b> 1420	100	✓	<b>WBG</b> 1440	1000	✓	<b>WCFL</b> 970	5000
	Waco, Texas		✓	Greensboro, N. C.		✓	Chicago, Ill.	
✓	<b>WADC</b> 1320	1000	✓	<b>WBIL</b> 1100	5000	✓	<b>WCHS</b> 580	500
	Akron, Ohio		✓	New York, N. Y.		✓	Charleston, W. Va.	
✓	<b>WAGA</b> 1450	500	✓	<b>WBLK</b> 1370	100	✓	<b>WCHV</b> 1420	100
	Atlanta, Ga.		✓	Clarksburg, W. Va.		✓	Charlottesville, Va.	
✓	<b>WAGF</b> 1370	250	✓	<b>WBLY</b> 1210	100	✓	<b>WKCY</b> 1490	10000
	Dothan, Ala.		✓	Lima, Ohio		✓	Covington, Ky.	
✓	<b>WAGM</b> 1420	100	✓	<b>WBNO</b> 1200	100	✓	<b>WCLE</b> 610	500
	Presque Isle, Me.		✓	New Orleans, La.		✓	Cleveland, Ohio	
✓	<b>WAIM</b> 1200	100	✓	<b>WBNS</b> 1430	500	✓	<b>WCLO</b> 1200	100
	Anderson, S. C.		✓	Columbus, Ohio		✓	Janesville, Wis.	
✓	<b>WAIR</b> 1250	250	✓	<b>WBNX</b> 1350	1000	✓	<b>WCLS</b> 1310	100
	Winston-Salem, N. C.		✓	New York, N. Y.		✓	Joliet, Ill.	
✓	<b>WALA</b> 1380	500	✓	<b>WBNY</b> 1370	100	✓	<b>WCMI</b> 1310	100
	Mobile, Ala.		✓	Buffalo, N. Y.		✓	Ashland, Ky.	
✓	<b>WALR</b> 1210	100	✓	<b>WBOQ</b> 860	50000	✓	<b>WCNW</b> 1500	100
	Zanesville, Ohio		✓	New York, N. Y.		✓	Brooklyn, N. Y.	
✓	<b>WAML</b> 1310	100	✓	<b>WBOW</b> 1310	100	✓	<b>WCOA</b> 1340	500
	Laurel, Miss.		✓	Terre Haute, Ind.		✓	Pensacola, Fla.	
✓	<b>WAPI</b> 1140	5000	✓	<b>WBRB</b> 1210	100	✓	<b>WCOG</b> 880	500
	Birmingham, Ala.		✓	Red Bank, N. J.		✓	Meridian, Miss.	
✓	<b>WAPO</b> 1420	100	✓	<b>WBRC</b> 930	1000	✓	<b>WCOL</b> 1210	100
	Chattanooga, Tenn.		✓	Birmingham, Ala.		✓	Columbus, Ohio	
✓	<b>WARD</b> 1400	500	✓	<b>WBRE</b> 1310	100	✓	<b>WCOP</b> 1120	500
	Brooklyn, N. Y.		✓	Wilkes-Barre, Pa.		✓	Boston, Mass.	
✓	<b>WASH</b> 1270	500	✓	<b>WBRK</b> 1310	100	✓	<b>WCPO</b> 1200	100
	Grand Rapids, Mich.		✓	Pittsfield, Mass.		✓	Cincinnati, Ohio	
✓	<b>WATL</b> 1370	100	✓	<b>WBRY</b> 1530	1000	✓	<b>WCRW</b> 1210	100
	Atlanta, Ga.		✓	Waterbury, Conn.		✓	Chicago, Ill.	
✓	<b>WATR</b> 1190	100	✓	<b>WBT</b> 1080	50000	✓	<b>WCSC</b> 1360	500
	Waterbury, Conn.		✓	Charlotte, N. C.		✓	Charleston, S. C.	
✓	<b>WAVE</b> 940	1000	✓	<b>WBTM</b> 1370	100	✓	<b>WCHS</b> 940	1000
	Louisville, Ky.		✓	Danville, Va.		✓	Portland, Me.	
✓	<b>WAWZ</b> 1350	500	✓	<b>WBZ</b> 990	50000	✓	<b>WDAE</b> 1220	1000
	Zarephath, N. J.		✓	Boston, Mass.		✓	Tampa, Fla.	
✓	<b>WAYX</b> 1200	100	✓	<b>WBZA</b> 990	1000	✓	<b>WDAF</b> 610	1000
	Waycross, Ga.		✓	Springfield, Mass.		✓	Kansas City, Mo.	
✓	<b>WAZL</b> 1420	100	✓	<b>WCAD</b> 1220	500	✓	<b>WDAH</b> 1310	100
	Hazleton, Pa.		✓	Canton, N. Y.		✓	El Paso, Texas	
✓	<b>WBAA</b> 890	500	✓	<b>WCAE</b> 1220	1000	✓	<b>WDAS</b> 1370	100
	West Lafayette, Ind.		✓	Pittsburgh, Pa.		✓	Philadelphia, Pa.	
✓	<b>WBAL</b> 760	2500	✓	<b>WCAL</b> 1250	1000	✓	<b>WDAY</b> 940	1000
	Baltimore, Md.		✓	Northfield, Minn.		✓	Fargo, N. Dak.	
✓	<b>WBAL</b> 1060	10000	✓	<b>WCAM</b> 1280	500	✓	<b>WDBJ</b> 930	1000
	Baltimore, Md.		✓	Camden, N. J.		✓	Roanoke, Va.	
✓	<b>WBAP</b> 800	50000	✓	<b>WCAO</b> 600	500	✓	<b>WDBO</b> 580	1000
	Fort Worth, Texas		✓	Baltimore, Md.		✓	Orlando, Fla.	
✓	<b>WBAX</b> 1210	100	✓	<b>WCAP</b> 1280	500	✓	<b>WDEL</b> 1120	250
	Wilkes-Barre, Pa.		✓	Asbury Park, N. J.		✓	Wilmington, Del.	
✓	<b>WBBC</b> 1400	500	✓	<b>WCAT</b> 1200	100	✓	<b>WDEV</b> 550	500
	Brooklyn, N. Y.		✓	Rapid City, S. Dak.		✓	Waterbury, Vt.	
✓	<b>WBBL</b> 1210	100	✓	<b>WCAU</b> 1170	50000	✓	<b>WDGY</b> 1180	1000
	Richmond, Va.		✓	Philadelphia, Pa.		✓	Minneapolis, Minn.	
✓	<b>WBBM</b> 770	50000	✓	<b>WCAX</b> 1200	100	✓	<b>WDNC</b> 1500	100
	Chicago, Ill.		✓	Burlington, Vt.		✓	Durham, N. C.	
✓	<b>WBBR</b> 1300	1000	✓	<b>WCAZ</b> 1070	100	✓	<b>WDOD</b> 1280	1000
	Brooklyn, N. Y.		✓	Carthage, Ill.		✓	Chattanooga, Tenn.	
✓	<b>WBBZ</b> 1200	100	✓	<b>WCBA</b> 1440	500	✓	<b>WDRC</b> 1330	1000
	Ponea City, Okla.		✓	Allentown, Pa.		✓	Hartford, Conn.	
✓	<b>WBCM</b> 1410	500	✓	<b>WCBD</b> 1080	5000	✓	<b>WDSM</b> 1200	100
	Bay City, Mich.		✓	Chicago, Ill.		✓	Superior, Wis.	

## NORTH AMERICAN B. C. STATIONS BY CALLS

✓	<b>WDSU</b> 1250	1000	✓	<b>WFIL</b> 560	1000	✓	<b>WHB</b> 860	1000
	New Orleans, La.			Philadelphia, Pa.			Kansas City, Mo.	
✓	<b>WDWS</b> 1370	100	✓	<b>WFLA</b> 620	1000	✓	<b>WHBB</b> 1500	100
	Champaign, Ill.			Clearwater, Fla.			Selma, Ala.	
✓	<b>WDZ</b> 1020	250	✓	<b>WFMD</b> 900	500	✓	<b>WHBC</b> 1200	100
	Tuscola, Ill.			Frederick, Md.			Canton, Ohio	
✓	<b>WEAF</b> 660	50000	✓	<b>WFOR</b> 1370	100	✓	<b>WHBF</b> 1210	100
	New York, N. Y.			Hattiesburg, Miss.			Rock Island, Ill.	
✓	<b>WEAN</b> 780	1000	✓	<b>WFOY</b> 1210	100	✓	<b>WHBI</b> 1250	1000
	Providence, R. I.			St. Augustine, Fla.			Newark, N. J.	
✓	<b>WEAU</b> 1050	1000	✓	<b>WFTC</b> 1200	100	✓	<b>WHBL</b> 1300	250
	Eau Claire, Wis.			Kinston, N. C.			Sheboygan, Wis.	
✓	<b>WEBC</b> 1230	1000		<b>WGAL</b> 1500	100	✓	<b>WHBQ</b> 1370	100
	Duluth, Minn.			Lancaster, Pa.			Memphis, Tenn.	
✓	<b>WEBQ</b> 1210	100		<b>WGAN</b> 640	500	✓	<b>WHBU</b> 1210	100
	Harrisburg, Ill.			Portland, Me.			Anderson, Ind.	
✓	<b>WEBR</b> 1310	100	✓	<b>WGAR</b> 1450	500	✓	<b>WHBY</b> 1200	100
	Buffalo, N. Y.			Cleveland, Ohio			Green Bay, Wis.	
✓	<b>WEDC</b> 1210	100	✓	<b>WGAU</b> 1310	100	✓	<b>WHDF</b> 1370	100
	Chicago, Ill.			Athens, Ga.			Calumet, Mich.	
✓	<b>WEED</b> 1420	100	✓	<b>WGBB</b> 1210	100	✓	<b>WHDH</b> 830	1000
	Rocky Mount, N. C.			Freeport, N. Y.			Boston, Mass.	
✓	<b>WEEL</b> 590	1000	✓	<b>WGBF</b> 630	500	✓	<b>WHDL</b> 1400	250
	Boston, Mass.			Evansville, Ind.			Olean, N. Y.	
✓	<b>WEUU</b> 830	1000	✓	<b>WGBI</b> 880	500	✓	<b>WHEB</b> 740	250
	Reading, Pa.			Scranton, Pa.			Portsmouth, N. H.	
✓	<b>WELI</b> 900	500	✓	<b>WGCM</b> 1210	100	✓	<b>WHEC</b> 1430	500
	New Haven, Conn.			Gulfport, Miss.			Rochester, N. Y.	
✓	<b>WELL</b> 1420	100	✓	<b>WGES</b> 1360	500	✓	<b>WHEF</b> 1500	100
	Battle Creek, Mich.			Chicago, Ill.			Kosciusko, Miss.	
✓	<b>WEMP</b> 1310	100	✓	<b>WGH</b> 1310	100	✓	<b>WHFC</b> 1420	100
	Millwaukee, Wis.			Newport News, Va.			Cleero, Ill.	
✓	<b>WENR</b> 870	50000	✓	<b>WGIL</b> 1500	250	✓	<b>WHIO</b> 1260	1000
	Chicago, Ill.			Gatesburg, Ill.			Dayton, Ohio	
✓	<b>WEOA</b> 1370	100	✓	<b>WGL</b> 1370	100	✓	<b>WHIP</b> 1480	5000
	Evansville, Ind.			Fort Wayne, Ind.			Hammond, Ind.	
✓	<b>WESG</b> 850	1000	✓	<b>WGN</b> 720	50000	✓	<b>WHIS</b> 1410	500
	Elmira, N. Y.			Chicago, Ill.			Bluefield, W. Va.	
✓	<b>WEST</b> 1200	100	✓	<b>WGNV</b> 1210	100	✓	<b>WHJB</b> 620	250
	Easton, Pa.			Newburgh, N. Y.			Greensburg, Pa.	
✓	<b>WEVD</b> 1300	1000	✓	<b>WGPC</b> 1420	100	✓	<b>WHK</b> 1390	1000
	New York, N. Y.			Albany, Ga.			Cleveland, Ohio	
✓	<b>WEW</b> 760	1000	✓	<b>WGR</b> 550	1000	✓	<b>WHKC</b> 640	500
	St. Louis, Mo.			Buffalo, N. Y.			Columbus, Ohio	
✓	<b>WEXL</b> 1310	50	✓	<b>WGRC</b> 1370	250	✓	<b>WHLB</b> 1370	100
	Royal Oak, Mich.			New Albany, Ind.			Virginia, Minn.	
✓	<b>WFAA</b> 800	50000	✓	<b>WGRM</b> 1210	100	✓	<b>WHN</b> 1010	1000
	Dallas, Texas			Grenada, Miss.			New York, N. Y.	
✓	<b>WFAB</b> 1300	1000	✓	<b>WGST</b> 890	1000	✓	<b>WHO</b> 1000	50000
	New York, N. Y.			Atlanta, Ga.			Des Moines, Iowa	
✓	<b>WFAM</b> 1200	100	✓	<b>WGTM</b> 1310	100	✓	<b>WHOM</b> 1450	250
	South Bend, Ind.			Wilson, N. C.			Jersey City, N. J.	
✓	<b>WFAS</b> 1210	100	✓	<b>WGVA</b> 1050	1000	✓	<b>WHP</b> 1430	500
	White Plains, N. Y.			Indianapolis, Ind.			Harrisburg, Pa.	
✓	<b>WFBC</b> 1300	1000	✓	<b>WGY</b> 790	50000	✓	<b>WIBA</b> 1280	1000
	Greenville, S. C.			Schenectady, N. Y.			Madison, Wis.	
✓	<b>WFBG</b> 1310	100	✓	<b>WHA</b> 940	5000	✓	<b>WIBG</b> 970	100
	Altoona, Pa.			Madison, Wis.			Glenside, Pa.	
✓	<b>WFBL</b> 1360	1000	✓	<b>WHAI</b> 1210	250	✓	<b>WIBM</b> 1370	100
	Syracuse, N. Y.			Greenfield, Mass.			Jackson, Mich.	
✓	<b>WFBM</b> 1230	1000	✓	<b>WHAL</b> 950	500	✓	<b>WIBU</b> 1210	100
	Indianapolis, Ind.			Saginaw, Mich.			Poynette, Wis.	
✓	<b>WFBR</b> 1270	500	✓	<b>WHAM</b> 1150	50000	✓	<b>WIBW</b> 580	1000
	Baltimore, Md.			Rochester, N. Y.			Topeka, Kans.	
✓	<b>WFDF</b> 1310	100	✓	<b>WHAS</b> 820	50000	✓	<b>WIBX</b> 1200	100
	Flint, Mich.			Louisville, Ky.			Utica, N. Y.	
✓	<b>WFEA</b> 1340	500	✓	<b>WHAT</b> 1310	100	✓	<b>WICA</b> 940	250
	Manchester, N. H.			Philadelphia, Pa.			Ashtabula, Ohio	
			✓	<b>WHAZ</b> 1300	1000			
				Troy, N. Y.				

## NORTH AMERICAN B. C. STATIONS BY CALLS

✓	<b>WICC</b> 600	500		<b>WKAQ</b> 1240	1000		<b>WMAS</b> 1420	100
	Bridgeport, Conn.			San Juan, P. R.			Springfield, Mass.	
✓	<b>WIL</b> 1200	100	✓	<b>WKAR</b> 850	1000		<b>WMAZ</b> 1180	1000
	St. Louis, Mo.			East Lansing, Mich.			Macon, Ga.	
✓	<b>WILL</b> 580	1000	✓	<b>WKAT</b> 1500	100		<b>WMBC</b> 1420	100
	Urbana, Ill.			Miami Beach, Fla.			Detroit, Mich.	
✓	<b>WILM</b> 1420	100	✓	<b>WKBB</b> 1500	100		<b>WMBD</b> 1440	1000
	Wilmington, Del.			East Dubuque, Ill.			Peoria, Ill.	
✓	<b>WIND</b> 560	1000	✓	<b>WKBH</b> 1380	1000		<b>WMBF</b> 610	1000
	Gary, Ind.			LaCrosse, Wis.			Miami, Fla.	
✓	<b>WINS</b> 1180	1000	✓	<b>WKBN</b> 570	500		<b>WMBG</b> 1350	500
	New York, N. Y.			Youngstown, Ohio			Richmond, Va.	
✓	<b>WIOD</b> 610	1000	✓	<b>WKBO</b> 1200	100		<b>WMBH</b> 1420	100
	Miami, Fla.			Harrisburg, Pa.			Joplin, Mo.	
✓	<b>WIP</b> 610	1000	✓	<b>WKBV</b> 1500	100		<b>WMBI</b> 1080	5000
	Philadelphia, Pa.			Richmond, Ind.			Chicago, Ill.	
✓	<b>WIRE</b> 1400	1000	✓	<b>WKBW</b> 1480	5000		<b>WMO</b> 1310	100
	Indianapolis, Ind.			Buffalo, N. Y.			Auburn, N. Y.	
✓	<b>WIS</b> 560	1000	✓	<b>WKBY</b> 1500	100		<b>WMOB</b> 1500	100
	Columbia, S. C.			Muskegon, Mich.			Brooklyn, N. Y.	
✓	<b>WISN</b> 1120	250	✓	<b>WKEU</b> 1500	100		<b>WMOB</b> 1370	100
	Milwaukee, Wis.			Griffin, Ga.			Jacksonville, Fla.	
✓	<b>WJAC</b> 1310	100	✓	<b>WKOK</b> 1210	100		<b>WMOB</b> 1420	250
	Johnstown, Pa.			Sunbury, Pa.			Uniontown, Pa.	
✓	<b>WJAG</b> 1060	1000	✓	<b>WKRC</b> 550	1000		<b>WMC</b> 780	1000
	Norfolk, Neb.			Cincinnati, Ohio			Memphis, Tenn.	
✓	<b>WJAR</b> 890	1000	✓	<b>WKY</b> 900	1000		<b>WMCA</b> 570	1000
	Providence, R. I.			Oklahoma City, Okla.			New York, N. Y.	
✓	<b>WJAS</b> 1290	1000	✓	<b>WKZO</b> 590	1000		<b>WMEX</b> 1500	100
	Pittsburgh, Pa.			Kalamazoo, Mich.			Boston, Mass.	
✓	<b>WJAX</b> 900	1000	✓	<b>WLAC</b> 1470	5000		<b>WMFD</b> 1370	100
	Jacksonville, Fla.			Nashville, Tenn.			Wilmington, N. C.	
✓	<b>WJBC</b> 1200	100	✓	<b>WLAK</b> 1310	100		<b>WMFF</b> 1310	100
	Bloomington, Ill.			Lakeland, Fla.			Plattsburg, N. Y.	
✓	<b>WJBK</b> 1500	100	✓	<b>WLAP</b> 1420	100		<b>WMFG</b> 1210	100
	Detroit, Mich.			Lexington, Ky.			Hibbing, Minn.	
✓	<b>WJBL</b> 1200	100	✓	<b>WLAW</b> 680	1000		<b>WMFJ</b> 1420	100
	Decatur, Ill.			Lawrence, Mass.			Daytona Beach, Fla.	
✓	<b>WJBO</b> 1120	500	✓	<b>WLB</b> 1250	1000		<b>WMFO</b> 1370	100
	Baton Rouge, La.			Minneapolis, Minn.			Decatur, Ala.	
✓	<b>WJBW</b> 1200	100	✓	<b>WLBC</b> 1310	100		<b>WMFR</b> 1200	100
	New Orleans, La.			Muncie, Ind.			High Point, N. C.	
✓	<b>WJBY</b> 1210	100	✓	<b>WLBL</b> 900	5000		<b>WMIN</b> 1370	100
	Gadsden, Ala.			Stevens Point, Wis.			St. Paul, Minn.	
✓	<b>WJDX</b> 1270	1000	✓	<b>WLBZ</b> 620	500		<b>WMMN</b> 890	500
	Jackson, Miss.			Bangor, Me.			Fairmont, W. Va.	
✓	<b>WJEJ</b> 1210	50	✓	<b>WLEU</b> 1420	100		<b>WMPC</b> 1200	100
	Hagerstown, Md.			Erie, Pa.			Lapeer, Mich.	
✓	<b>WJIM</b> 1210	100	✓	<b>WLLH</b> 1370	100		<b>WMPS</b> 1430	500
	Lansing, Mich.			Lawrence, Mass.			Memphis, Tenn.	
✓	<b>WJJD</b> 1130	20000	✓	<b>WLLH</b> 1370	100		<b>WMSD</b> 1420	100
	Chicago, Ill.			Lowell, Mass.			Sherfield, Ala.	
✓	<b>WJMS</b> 1420	100	✓	<b>WLMU</b> 1210	100		<b>WMT</b> 600	1000
	Ironwood, Mich.			Middlesboro, Ky.			Cedar Rapids, Iowa	
✓	<b>WJNO</b> 1200	100	✓	<b>WLNH</b> 1310	100		<b>WNAC</b> 1230	1000
	W. Palm Beach, Fla.			Laconia, N. H.			Boston, Mass.	
✓	<b>WJR</b> 750	50000	✓	<b>WLS</b> 870	50000		<b>WNAD</b> 1010	1000
	Detroit, Mich.			Chicago, Ill.			Norman, Okla.	
✓	<b>WJRD</b> 1200	250	✓	<b>WLTH</b> 1400	500		<b>WNAX</b> 570	1000
	Tuscaloosa, Ala.			Brooklyn, N. Y.			Yankton, S. D.	
✓	<b>WJSV</b> 1460	10000	✓	<b>WLVA</b> 1200	100		<b>WNBC</b> 1380	250
	Washington, D. C.			Lynchburg, Va.			New Britain, Conn.	
✓	<b>WJTN</b> 1210	100	✓	<b>WLW</b> 700	500000		<b>WNBF</b> 1500	100
	Jamestown, N. Y.			Cincinnati, Ohio			Binghamton, N. Y.	
✓	<b>WJW</b> 1210	100	✓	<b>WMAL</b> 630	250		<b>WNBH</b> 1310	100
	Akron, Ohio			Washington, D. C.			New Bedford, Mass.	
✓	<b>WJZ</b> 760	50000	✓	<b>WMAQ</b> 670	50000		<b>WNBX</b> 1260	500
	New York, N. Y.			Chicago, Ill.			Springfield, Vt.	

## NORTH AMERICAN B. C. STATIONS BY CALLS

✓	<b>WNBZ</b> 1290 100 Saranac Lake, N. Y.	✓	<b>WPTF</b> 680 1000 Raleigh, N. C.	✓	<b>WSFA</b> 1410 500 Montgomery, Ala.
✓	<b>WNEL</b> 1290 1000 San Juan, P. R.	✓	<b>WQAM</b> 560 1000 Miami, Fla.	✓	<b>WSGN</b> 1310 100 Birmingham, Ala.
✓	<b>WNEW</b> 1250 1000 New York, N. Y.	✓	<b>WQAN</b> 880 500 Scranton, Pa.	✓	<b>WSIX</b> 1210 100 Nashville, Tenn.
✓	<b>WNLC</b> 1500 100 New London, Conn.	✓	<b>WQBC</b> 1360 1000 Vicksburg, Miss.	✓	<b>WSJS</b> 1310 100 Winston-Salem, N. C.
✓	<b>WNNY</b> 1420 100 Watertown, N. Y.	✓	<b>WQDM</b> 1390 1000 St. Albans, Vt.	✓	<b>WSM</b> 650 50000 Nashville, Tenn.
✓	<b>WNOX</b> 1010 1000 Knoxville, Tenn.	✓	<b>WQXR</b> 1550 1000 New York, N. Y.	✓	<b>WSMB</b> 1320 1000 New Orleans, La.
✓	<b>WNYC</b> 810 1000 New York, N. Y.	✓	<b>WRAC</b> 1370 100 Williamsport, Pa.	✓	<b>WSMK</b> 1380 200 Dayton, Ohio
✓	<b>WOAI</b> 1190 50000 San Antonio, Texas	✓	<b>WRAP</b> 1310 100 Reading, Pa.	✓	<b>WSNJ</b> 1210 100 Bridgeport, N. J.
✓	<b>WOC</b> 1370 100 Davenport, Iowa	✓	<b>WRAX</b> 920 1000 Philadelphia, Pa.	✓	<b>WSOC</b> 1210 100 Charlotte, N. C.
✓	<b>WOI</b> 640 5000 Ames, Iowa	✓	<b>WRBL</b> 1200 100 Columbus, Ga.	✓	<b>WSPA</b> 920 1000 Spartanburg, S. C.
✓	<b>WOKO</b> 1430 500 Albany, N. Y.	✓	<b>WRC</b> 950 500 Washington, D. C.	✓	<b>WSPD</b> 1340 1000 Toledo, Ohio
✓	<b>WOL</b> 1310 100 Washington, D. C.	✓	<b>WRDO</b> 1370 100 Augusta, Me.	✓	<b>WSPR</b> 1140 500 Springfield, Mass.
✓	<b>WOLS</b> 1200 100 Florence, S. C.	✓	<b>WRDW</b> 1500 100 Augusta, Ga.	✓	<b>WSUI</b> 880 500 Iowa City, Iowa
✓	<b>WOMI</b> 1500 100 Owensboro, Ky.	✓	<b>WREC</b> 600 1000 Memphis, Tenn.	✓	<b>WSUN</b> 620 1000 St. Petersburg, Fla.
✓	<b>WOMT</b> 1210 100 Manitowoc, Wis.	✓	<b>WREN</b> 1220 1000 Lawrence, Kans.	✓	<b>WSVA</b> 550 500 Harrisonburg, Va.
✓	<b>WOOD</b> 1270 500 Grand Rapids, Mich.	✓	<b>WRGA</b> 1500 100 Rome, Ga.	✓	<b>WSVS</b> 1370 50 Buffalo, N. Y.
✓	<b>WOPI</b> 1500 100 Bristol, Tenn.	✓	<b>WRJN</b> 1370 100 Racine, Wis.	✓	<b>WSWB</b> 1500 100 Rutland, Vt.
✓	<b>WOR</b> 710 50000 Newark, N. J.	✓	<b>WRNL</b> 880 500 Richmond, Va.	✓	<b>WSYR</b> 570 1000 Syracuse, N. Y.
✓	<b>WORC</b> 1280 500 Worcester, Mass.	✓	<b>WROK</b> 1410 500 Rockford, Ill.	✓	<b>WTAD</b> 900 1000 Quincy, Ill.
✓	<b>WORK</b> 1320 1000 York, Pa.	✓	<b>WROL</b> 1310 100 Knoxville, Tenn.	✓	<b>WTAG</b> 580 1000 Worcester, Mass.
✓	<b>WORL</b> 920 500 Boston, Mass.	✓	<b>WRR</b> 1280 500 Dallas, Texas	✓	<b>WTAL</b> 1310 100 Tallahassee, Fla.
✓	<b>WOSU</b> 570 750 Columbus, Ohio	✓	<b>WRTD</b> 1500 100 Richmond, Va.	✓	<b>WTAM</b> 1070 50000 Cleveland, Ohio
✓	<b>WOV</b> 1130 1000 New York, N. Y.	✓	<b>WRUF</b> 830 5000 Gainesville, Fla.	✓	<b>WTAQ</b> 1330 1000 Green Bay, Wis.
✓	<b>WOW</b> 590 1000 Omaha, Neb.	✓	<b>WRVA</b> 1110 5000 Richmond, Va.	✓	<b>WTAR</b> 780 1000 Norfolk, Va.
✓	<b>WOWO</b> 1160 10000 Fort Wayne, Ind.	✓	<b>WSAI</b> 1330 1000 Cincinnati, Ohio	✓	<b>WTAW</b> 1120 500 College Station, Tex.
✓	<b>WPAD</b> 1420 100 Paducah, Ky.	✓	<b>WSAJ</b> 1310 100 Grove City, Pa.	✓	<b>WTAX</b> 1210 100 Springfield, Ill.
✓	<b>WPAR</b> 1420 100 Parkersburg, W. Va.	✓	<b>WSAL</b> 1200 250 Sallsbury, Md.	✓	<b>WTBO</b> 800 250 Cumberland, Md.
✓	<b>WPAX</b> 1210 100 Thomasville, Ga.	✓	<b>WSAN</b> 1440 500 Allentown, Pa.	✓	<b>WTCN</b> 1250 1000 Minneapolis, Minn.
✓	<b>WPAY</b> 1370 100 Portsmouth, Ohio	✓	<b>WSAR</b> 1450 1000 Fall River, Mass.	✓	<b>WTEL</b> 1310 100 Philadelphia, Pa.
✓	<b>WPEN</b> 920 1000 Philadelphia, Pa.	✓	<b>WSAU</b> 1370 100 Wausau, Wis.	✓	<b>WTHT</b> 1200 100 Hartford, Conn.
✓	<b>WPG</b> 1100 5000 Atlantic City, N. J.	✓	<b>WSAY</b> 1210 100 Rochester, N. Y.	✓	<b>WTCI</b> 1040 50000 Hartford, Conn.
✓	<b>WPRO</b> 630 500 Providence, R. I.	✓	<b>WSAZ</b> 1190 1000 Huntington, W. Va.	✓	<b>WTJS</b> 1310 100 Jackson, Tenn.
✓	<b>WPRP</b> 1420 100 Ponce, P. R.	✓	<b>WSB</b> 740 50000 Atlanta, Ga.	✓	<b>WTMJ</b> 620 1000 Milwaukee, Wis.
			<b>WSBC</b> 1210 100 Chicago, Ill.	✓	<b>WTMV</b> 1500 100 East St. Louis, Ill.
			<b>WSBT</b> 1360 500 South Bend, Ind.		

## NORTH AMERICAN B. C. STATIONS BY CALLS

✓	WTNJ 1280 Trenton, N. J.	500		XEBL 1220 Mazatlan, Sln.	50		XEL 1100 Mexico City, D. F.	250
✓	WTOC 1260 Savannah, Ga.	1000		XEBO 1310 Irapuato, Guan.	25		XELA 1240 Saltillo, Coah.	50
	WTOL 1200 Toledo, Ohio	100		XEBP 1150 Durango, Dgo.	250	✓	XELO 580 Tijuana, B. Cta.	10000
✓	WTRC 1310 Elkhart, Ind.	100		XEBS 1340 Mexico City, D. F.	200		XELZ 1370 Mexico City, D. F.	100
✓	WVWF 1400 Brooklyn, N. Y.	500		XEBU 1200 Chihuahua, Chih.	50	✓	XEMO 860 Tijuana, I. C.	5000
✓	WWAE 1200 Hammond, Ind.	100		XEBX 640 Sabinas, Coah.	250		XEMU 580 Piedras Negras, Coah.	250
✓	WWJ 920 Detroit, Mich.	5000		XEBZ 810 Mexico City, D. F.	100		XEMX 1280 Mexico City, D. F.	100
✓	WWL 850 New Orleans, La.	10000		XEC 1150 Tijuana, L. C.	100		XEN 780 Mexico City, D. F.	1000
	WWNC 570 Asheville, N. C.	1000		XECZ 1370 San Luis Potosi, S.L.P.	100		XENC 860 Mexico City, D. F.	50
✓	WWRL 1500 Woodside, N. Y.	100		XED 1160 Guadalajara, Jal.	2500	✓	XENT 910 Nuevo Laredo, Tams.	150000
✓	WWSW 1500 Pittsburgh, Pa.	100		XEDA 1220 Grai. Anaya, D. F.	200		XEOK 760 Tijuana, L. C.	2500
✓	WWVA 1160 Wheeling, W. Va.	5000		XEDF 810 Nuevo Laredo, Tams.	100	✓	XEP 1160 Juarez, Chih.	500
✓	WXYZ 1240 Detroit, Mich.	1000		XEDH 1340 Villa Acuna, Coah.	200	✓	XEPN 730 Piedras Negras, Coah.	100000
	W3XDD Whippany, N. J.	50000		XEDP 1080 Mexico City, D. F.	500		XERA 840 Villa Acuna, Coah.	250000
	W3XJ 1060 College Park, Md.	100		XEDW 1150 Minatitlan, Ver.	20		XERB 730 Rosarito Beach, B. Cta.	100000
	W8XO 700 Cincinnati, Ohio	500000		XEE 1210 Durango, Dgo.	50		XES 990 Tampico, Tams.	250
	XEAA 750 Mexicali, B. C.	200		XEF 1450 Juarez, Chih.	100		XET 600 Monterrey, N. L.	5000
	XEAC 980 Tijuana, L. C.	1000		XEFA 1180 Tacuba, D. F.	500		XETB 1310 Treon, Coah.	125
	XEAF 990 Nogales, Son.	750		XEFB 870 Monterrey, N. L.	200		XETF 1220 Veracruz, Ver.	12
	XEAG 1310 Cordoba, Ver.	10		XEFC 550 Merida, Yuc.	100		XETH 1210 Puebla, Pue.	100
	XEAI 1250 Mexico City, D. F.	500		XEFE 980 Nuevo Laredo, Tams.	250		XEU 1010 Veracruz, Ver.	250
	XEAL 660 Mexico City, D. F.	1000		XEFI 1440 Chihuahua, Chih.	250	✓	XEW 890 Mexico City, D. F.	50000
	XEAM 750 Matamoros, Tams.	25		XEFM 1160 Leon, Gto.	20		XEX 1310 Monterrey, N. L.	125
	XEAO 660 Mexicali, B. C.	250		XEFQ 1010 Cananea, Son.	50		XEXB 1270 Jalapa, Ver.	250
	XEAP 1340 Obregon, Son.	50		XEFV 1210 Juarez, Chih.	100		XEXD 1340 Jalapa, Ver.	350
	XEAS 1160 Saltillo, Coah.	100		XEFW 1310 Tampico, Tams.	300		XEXE 1270 Texcoco, D. F.	17
	XEAT 1210 Parral, Chih.	250		XEG 1230 Monterrey, N. L.	250		XEXH 1250 San Luis Potosi, S.L.P.	250
✓	XEAW 960 Reynosa, Tams.	100000		XEH 720 Monterrey, N. L.	250		XEXM 610 Mexico City, D. F.	500
	XEB 1030 Mexico City, D. F.	10000		XEI 1370 Morelia, Mich.	125		XEXS 1310 Mexico City, D. F.	100
	XEBA 1080 Guzman, Jal.	20		XEJ 1020 Juarez, Chih.	1000		XEYO 610 Mexico City, D. F.	500
	XEBG 820 Tijuana, B. Cta.	1000		XEJP 1130 Mexico City, D. F.	100		XEZ 630 Merida, Yuc.	500
	XEBH 930 Hermosillo, Sonora	500		XEJW 870 Mexico City, D. F.	500		ZNS 540 Nassau, Bahamas	400
	XEBI 1000 Aguascalientes, Ags.	25		XEK 890 Mexico City, D. F.	100		YSS 640 San Salvador, E. S.	....
	XEBK 1080 Neuvo Laredo, Tams.	100		XEKL 1240 Leon, Guan.	500			



## The Fanning Island "Station"

In response to a report sent to station VQ1AB, which announced its location as Fanning Island, J. E. Gardner of Cleveland received a letter from Mr. F. N. Harry which is quoted here in full:

"Two letters have arrived from you addressed to VQ1AB Shortwave Radio Station Fanning Island. I am the cable operator here and am in charge of the post office. As there are only two other white men apart from the cable staff of ten, the post office is more or less for our own convenience and therefore run by us.

"Whoever is signing himself as VQ1AB has been misleading a very large number of you radio chaps. I get several requests so addressed every mail and instead of returning them marked 'Unknown' I have been opening them and replying individually.

"Several years ago there was a chap on Fanning Island with that call but you can take my word for it that there is definitely no one working an amateur radio station here now. . . .

"Your Christmas card and greetings were a kind thought. We do two years on the Island, and as we arrived on Christmas Eve, 1936, this is our second Christmas spent here, although the first was spent mostly in unpacking our goods.

"We have a regular boat every three months but have been very fortunate lately in having a Coast Guard Cutter from Honolulu calling. The last one was the 'Roger B. Taney' in October and expect she will be calling again towards the end of January, which will be our next mail."

## At DEADLINE . . .

Construction Permits for new stations have been granted to Harwell V. Shepart of Denton, Texas and to the Cache Valley Broadcasting Co. of Logan, Utah. The Denton station will work on 1420 kcs. with 100 watts, daytime only. The Logan station was assigned 1500 kcs. with 100 watts, fulltime.

The call letters KPAB have been assigned to the new Laredo, Texas station on 1500 kcs. The Beaumont, Texas station on 1420 kcs. will have the call letters KRIC.

From the operators of the Swedish shortwave stations, we learn that SBO transmits on 6065 kcs. and SBP operates on 11705 kcs. Station SM5SX at Stockholm transmits on 15155 kcs. All these stations employ 500 watts power. The address to which reports should be sent is Telegrafverket Tjanstebrev Nr. 5, Stockholm.

The American Telephone and Telegraph Co., Long Lines Department, has received authorization to utilize a communication band width of 10 kilocycles for commercial radio telephony. This company is developing an improved "band splitting" type of privacy apparatus. The stations which will use this new type of secret transmission are WKA, WLA, WMA, WNA, WOA and WPM.

Some Australian changes made during the past month are: 4TO Townsville, from 1160 to 780 kcs.; 4RO Rockhampton, from 1330 to 1080 kcs; 2AD Armidale, from 1080 to 1130 kcs; 4BU Bundaberg, from 1480 to 1330 kcs; 4MK Mackay, from 1080 to 1390 kcs.

Some new Mexican stations recently licensed, according to Samuel A. Meyer of Rochester, N. Y., and Harry F. Hawkins of Manchester, N. H., include a station XEOJ, 600 kcs., power and location not known; XEFQ, 1010 kcs., 50 watts, Cananea,

Son.; XEBP, 1150 kcs., 250 watts, Durango, Dgo.; XEFM, 1160 kcs., 20 watts, Leon, Gto.; XEXX, 1170 kcs., 1 kilowatt, Mexico City; XEAZ, 1230 kcs., 200 watts, Zacatecas, Zac.; XEME, 1240 kcs., 50 watts, Merida, Yuc.; XEBU, 1250 kcs., 50 watts, Chihuahua, Chih.; XEAI, 1250 kcs., 500 watts, Mexico City; XEAU, 1320 kcs., Tijuana, B. Cfa.

It has been reported that KUMA will move from Yuma to Flagstaff, Arizona.

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**INSURE YOUR RADIO ENJOYMENT**

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 14717 Detroit Ave.,  
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Street and Number.....

City and State.....