

THE MARCH, 1935

RADIO INDEX

THE ALL-WAVE RADIOMAGAZINE



25^c

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Which is the Best Antenna for You?
Around the Clock on the Short Waves
The March Calendar of DX Programs
Where to Get the Day's News

No. 87

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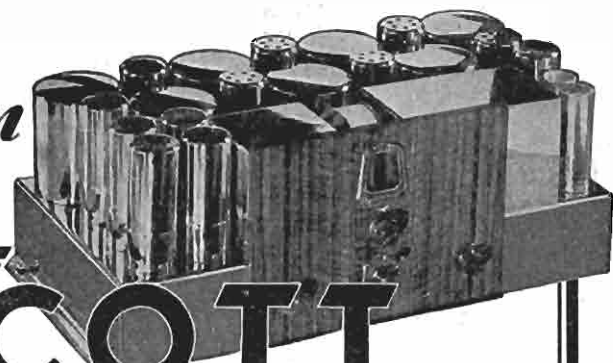
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March 1, 1935



RADIO INDEX

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Editor and Publisher



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Technical Editor

PAGE TAYLOR
Short Wave Editor

ELEVENTH YEAR

NUMBER 87

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Which is the BEST ANTENNA?

• • • By B. FRANCIS DASHIELL

ANY type of antenna will intercept radio signals. If you toss one end of a piece of wire out of a window, it will work surprisingly well. But, this is something like going fishing with only a piece of string and a hook. Now we know that no modern fisherman would think of starting out unless provided with a variety of tackle and bait. So, for the same reason, the enthusiastic owner of new and expensive all-wave equipment, should not be satisfied to fish for signals from the four corners of the earth unless the antenna to which the receiver is attached is correctly designed and erected.

"Man-Made" Static

Antenna troubles are of every imaginable kind. But this is quite natural. Anyone can go out and buy a modern, ready-to-use radio, but the antenna is something that must be erected, although it may come in a box assembled as a "kit." Then, too, most of us make our homes in a variety of locations and live under different housing conditions. Some of us live in wide, open spaces, far removed from the static interference of man's electrical servants. Many more people are crowded in noisy, congested areas. For every person having a house surrounded by spacious grounds there are hundreds who live in smaller city homes and apartments where antenna space is at a premium.

The new, sensitive and powerful radio sets have brought listeners up against the problem of noise. The advent of the all wave receiver has increased this nuisance many fold, for, instead of dealing with one wave band, that between 200 and 550 meters, it adds four new wave bands, between 5 and 200 meters. All of these are super-sensitive radio channels.

Noise-Reducing Antennas

Electrical noises, fortunately, do not carry far from their sources, and we are able to combat them with *noise-reducing antennas*. We can place the antenna flat-top section high up in a region that is almost entirely removed from the field of "man-made" static. Immediately we accomplish this we are confronted with another problem, that of bringing the *lead-in* wire down *through* the static region—that is, past electric wires, telephones, oil burner heating systems, elevators, switches, and power apparatus. But this lead-in can be insulated against static waves, while the pick-up of radio signals will be confined entirely to the flat antenna-top. Nature's static in the at-



Charming Grace Moore, equally famed in opera, stage, screen and radio. Who was it that sighed for "other fields to conquer?" There seem to be none left for Miss Moore. Her picture "One Night of Love" may bring her the Filmland medal for 1934. You may hear her Tuesdays at 9:00 p. m. EST on the WJZ chain.

mosphere, however, will always affect the antenna; there is nothing we can do about it.

Short waves are used almost exclusively for the now popular and fascinating world-wide radio. However, the ordinary antenna that performs so well with standard broadcast receivers is inadequate for short-wave reception. And short-wave antennas, which do not always work any too satisfactorily over the entire short-wave band, are much less perfect on the broadcast band.

What Kind Of Antenna?

There has developed a belief that certain antenna arrangements can be made that will perform miracles. Of course, there is no question that a new antenna, of the type indicated for a particular purpose, when properly located and erected, will represent time and money well spent. But, it should be remembered, no antenna system is perfect.

The question confronting the owner of a tuned-radio-frequency or superheterodyne receiver that responds *only* to the broadcast band, or an all-wave or short-wave set, or one of the short-wave converters, concerns the type of antenna that ought to be used.

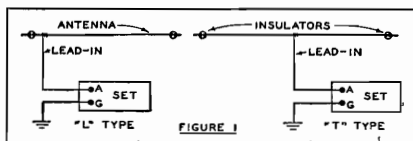
Shall the antenna be a single wire—short or long, or a new doublet system? Does one antenna serve equally well with broadcast and short-wave receivers? Must the lead-in be shielded? If so, how? Which is best—twisted, transposed or parallel lead-ins? Where should the antenna be located? What is the best size? Are cage antennas better than single wires?

General Instructions

Always use new, bright copper or bronze wire. It may be solid, Nos. 12 or 14, or large flexible antenna wire, with 7 strands of No. 25, or glazed porcelain insulators are best to use. The lead-in wire or wires should be the same size as the antenna proper. This should be heavily insulated and waterproofed. Joints must be care-

fully soldered with a non-corrosive fluxing material. Whenever possible, antenna and lead-in should be one piece.

Locate the antenna high in the air. Do not run it parallel to other antennas and wires. Thoroughly insulate both ends and stretch the wires tightly between well-braced masts. Keep the wires away from metallic objects, such as tin roofs and spouts. Shun all electric wires, power lines, elevator machinery on the roof, switches, electrical devices, and streets congested with trolley car and automobile traffic.



For Broadcast Receivers

If your receiver operates only on the broadcast band—200 to 550 meters, or higher, no matter if it has a tuned-radio-frequency or a superheterodyne circuit, containing a few or many tubes, it should be used with a single-wire or multi-wire antenna of the Marconi type. This may have either the "L" or "T" arrangement, as shown in Figure 1. Doublet antennas are *not* used with receivers that operate exclusively on the broadcast band. Marconi type antennas are not confined to any one size, but lengths from 50 to 100 feet have been found to work as well as any.

If your broadcast receiver is located out in the country where electricity is not available, either of the Marconi "L" or "T" types will be suitable. Since the locality will be free from "man-made" static, there will be no noise from that source. A single-wire lead-in is used to bring radio signals down from the top. It is not necessary to shield this lead-in.

Shielding The Lead-In

But, if your broadcast-band receiver is located in some congested part of

town, where "man-made" static abounds, the ordinary type of single-wire lead-in will not prevent static from reaching the radio set. In this case a *shielded* lead-in wire is recommended.

The insulated lead-in wire is passed down through a braided, flexible metallic covering or tube. This shielding container usually is grounded. In some antenna systems, notably the Lynch "No-Stat," the shield is not grounded, but is used as one side of the double transmission line coming down from the antenna. However, the mere use of a shield around a lead-in wire, extending from antenna to receiver, is not very satisfactory because of the high signal loss that occurs through a capacity effect existing between the outer shielding case or tube and the inner lead-in wire. Now, if we lower the potential of the radio signal passing down the lead-in we can eliminate this condenser effect with its subsequent loss of energy. Transformers are used for this purpose.

Impedance-Matching Transformers

To prevent signal losses in the shielded lead-ins used with broadcast antennas, *impedance-matching transformers* or *couplers* are used between the receiver and the lead-in wire with its shielding tube. The lead-in now becomes a *transmission line*, and is used only with noise-reducing and doublet antennas. The best scheme is to employ *two* such transformers, one at the upper end to match the impedance of the antenna, and one at the lower end to match the impedance of the radio receiver.

A good receiving antenna for all broadcast-band radio sets should be 60 feet long. This length will bring it into resonance with most radio waves falling within the broadcast band. At some convenient point along the antenna wire, one end for the "L" type, or the middle for the "T" type, at-

"Keep Out"

Says the RCA Noise-Reducing World-Wide Antenna to Man-Made Interference

No more need your short-wave reception be prey to every passing street car—every electrical gadget in your building! The new RCA double-doublet antenna says "No!" to man-made noises—and brings in far more foreign stations.

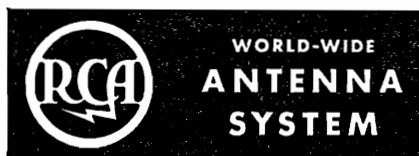
Ask your dealer or service engineer for a *Certified Installation*. Write for booklet "Antenna Facts".



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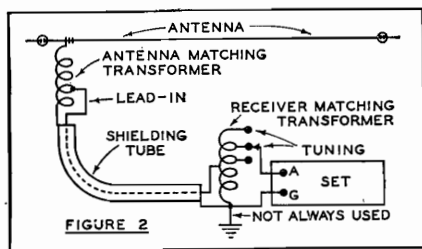


tach the *antenna* impedance-matching transformer.

A Lightning Arrester

Connect the single, inner lead-in wire of the transmission line to one terminal of the transformer. Then attach the metallic, shield tube to the other terminal. Now run the shielded transmission line directly to the receiver, holding it at least 12 inches from any metal and masonry walls by means of insulators. At the lower end the transmission line should be firmly anchored before it enters the house. Here a good lightning arrester must be located with a well-made ground and large individual grounding wire. Most antenna "kits" furnish the proper type of lightning arrester.

The free end of the shielded lead-in is carried through a wall or window, around the base-board, over doors and windows, as may be necessary, so as to reach the receiver. At this point a receiver impedance-matching transformer is connected. Its output is attached directly to the antenna and ground terminals of the radio set. Matching couplers have two or three antenna terminals so the input impedance of any radio broadcast receiver can be matched. These connections are shown in Figure 2.



For All-Wave Receivers

Now, if you own any size or kind of all-wave receiver, short-wave set, or short-wave converter, a different treatment is indicated. The old Marconi antenna does not prove suitable. The *doublet* antenna is unani-

mously accepted as preferable for modern all-wave and short-wave receivers. It is used in noise-free and noise-producing regions, for it is a noise-reducing antenna under all circumstances. The different trade names given to the standard or fundamental doublet antenna mean very little to the user for he has very few essential differences to choose between when selecting a doublet antenna.

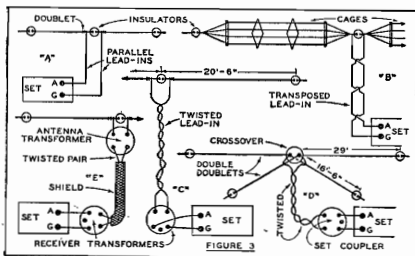
Doublet antennas are shown in Figure 3. At "A" we see how a flat-top Marconi "T" antenna is opened at the middle to make a doublet. But it has a pair of lead-in wires, each taken from the inner ends of the two halves of the doublet. It becomes simply two "L" type antennas placed "heel" to "heel" in one straight line. A doublet can be constructed of single copper wires, or each section can be arranged as a "cage," as shown in "B" of Figure 3. The cage type is believed by many to be slightly superior on very short waves.

Erecting The Doublet

The two halves of a standard doublet are each 20½ feet long. This length has been determined as the result of many experiments. A complete antenna, 41 feet in length, will be resonant to about 16 to 19 meters, and is just as efficient at 25, 31 and 49 meters, where most of the world's short-wave transmission is carried on. However, some doublet systems have different lengths. The particular make selected is usually ordered because it fits the space available on the roof. That is about the main reason for "choosing" between the many styles now on the market. Doublets, because they have slight directional effects, should be placed along a northwest-southeast line for all general reception.

Impedance-matching transformers must be used to couple the two halves of the doublet antenna to the receiver. Some systems use two transformers, one at the antenna and one at the re-

ceiver; others use but one transformer—at the receiver end of the transmission line. One type, the “Giant Killer,” does not use transformers. In any case, the final connection between the receiver transformer output and the antenna input of the short-wave or all-wave set should be very short—less than one inch.



The Transmission Line

All doublet antenna “kits” contain a transmission line. Or, if the antenna is erected by the listener, he may select any line he wishes—one is about as good as another when antenna and transformers are equal. The three types—*twisted*, *transposed* and *shielded*, are shown in “B,” “C,” and “E,” respectively, of Figure 3. They all reduce static noise. Some systems call for certain lengths of transmission line. This is particularly true with the RCA “double-doublet” system. All “kit” manufacturers give specific instructions.

Because doublet antenna systems call for a double rather than a single lead-in, most modern all-wave sets now provide for two connections to the antenna. In fact, some makers have developed special antenna connections. This is outstanding in the new Stewart-Warner receivers. Then, too, special doublet antennas, such as *Philco*, *RCA-Victor*, *Atwater-Kent*, *Sparton*, etc., have been developed for use with similar makes of receivers.

With Old Receivers

When old receivers, having only one

(Continued on page 38)

The Singleton Contest

Who has a verification from some station which no one else in North America possesses? Obviously this must be a foreign station. If you have such a verification of some low-powered and far-distant station, advise us and we will enter it in our list to your credit until it is eliminated by someone reporting a similar verification. Do not send the verification to us but, on the other hand, do not report a station for which you do not have a bona-fide verification.

SINGLETONS

- ZTD, Durban, South Africa. Claimed by C. E. Lowe, Merced, Calif.
 2ZP, Wairoa, New Zealand. Claimed by Charles Hesterman, Saskatoon, Sask.
 2YC, Wellington, N. Z. Claimed by Harold Alexson, Vancouver, B. C.
 2CA, Canberra, Australia. Claimed by W. Pollard, Victoria, B. C.
 JOBG, Maebashi, Japan. Claimed by R. W. Schofield, Missoula, Mont.
 VUG, Delhi, India. Claimed by Robert Slosson, Milwaukee, Wis.
 OER3, Vienna, Austria. Claimed by Lincoln A. Wood, Lynn, Mass.
 CX18, Montevideo, Uruguay. Claimed by Marvin D. Dixon, Shelby, N. C.
 RLS, Buenos Aires, Argentina. Claimed by Murray D. Bryce, Royal Oak, B. C.
 Copenhagen, Denmark. Claimed by Ray La Rocque, Worcester, Mass.
 Langenburg, Germany. Claimed by Ray La Rocque, Worcester, Mass.
 JQAK, Dalren, Manchuria. Claimed by Charles Hesterman, Saskatoon, Sask.
 2KO, Newcastle, Australia. Claimed by Charles Hesterman, Saskatoon, Sask.
 CTIGL, Parede, Portugal. Claimed by Art. Collins, Buffalo, N. Y.
 OKB, Brno, Czechoslovakia. Claimed by Gerald Vail, East Marion, N. Y.
 2XN, Lismore, Australia. Claimed by Roy N. Licari, Allenwood, N. J.
 KZIB, Manila, P. I. Claimed by James Blase, Bronx, N. Y.
- The following are submitted as singletons by John A. Shanks, Russellville, Tenn.: 4ZW, 4BK, 5AD, 7ZL and 3HA.
- The following by Guy B. Welsh, Reynoldsville, Pa.: 3HA, 7UV, 2GN and 2KO.
- The following by Karl J. Halpern, Brooklyn, N. Y.: 2AY, 2BL, 2CH, 2FC, 2NC, 2UE, 2XN, 3AR, 3LO, 5CL, 5CK, 6ML, 6PR, 6WF, 1ZB, 1ZH, 1ZR, 2ZF, 2ZH, 2ZI, 2ZW, 3PR, 4ZP.

ELIMINATORS

- Radio Trieste awarded to Ray La Rocque, Worcester, Mass., eliminated by James A. Dunigan, New Britain, Conn., Gerald Vail, East Marion, N. Y., and Wm. Vornkahl, Jr., Westport, Conn.
- JOLK awarded to R. W. Schofield, Missoula, Mont., eliminated by Raymond C. Corbett, Sacramento, Calif., Clyde E. Lowe, Merced, Calif., and Art Collins, Buffalo, N. Y.
- 3BO awarded to Robert R. Rawstron, Worcester, Mass., eliminated by Karl J. Halpern, Brooklyn, N. Y.
- 6PR awarded to Art. Collins, Buffalo, N. Y., eliminated by Karl J. Halpern, Brooklyn, N. Y.

Discussing SHORT WAVE Results

• • • With PAGE TAYLOR

THE most interesting short-wave news this month concerns the new broadcasters in Budapest, Hungary. Stations in this city have been heard, off and on, for over a year, transmitting experimental broadcasts, but last month regular transmissions addressed to America were inaugurated. A large number of transmitters is located at Skekesfehevar, near Budapest, but the two chosen for these programs are HAS3 on 15.370 megcs. or 19.51 meters, and HAT, 5.400 megcs. or 55.52 meters.

Several different schedules of operation have been announced, but HAS3 is heard on Sundays only, from 8 until 9 a.m., EST. HAT is supposed to work from 8 to 9 p.m., EST, on Sundays, or from 8 to 9 a.m. on Mondays, but HAT has not been reported at either time. The former, HAS3, is well heard and has been reported by many listeners in the United States. Their method of verifying reports is novel; instead of using the conventional type of QSL card, picture post cards with views of the city of Budapest are used. Listeners wishing to report reception of these stations can write to the Research Laboratories for Electrical Communications, Royal Hungarian Post Office Authority, Gyalı St. 22, Budapest, Hungary.

About HP5B

"Following is some information on the new Panamanian station, taken from their verification card," contributes Donald Smith, 12 South St., Woburn, Mass. "The call letters are HP5B and the wave, 49.75 meters, 6030 kcs. The name of the station is Estacion Radiodifusora Miramar de la Radio Panama, S. A. The address, Apartado 910, Panama City. Their

schedule is given as noon to 1 p.m. and 8 to 10:30 p.m., EST, daily. Announcements are in English and Spanish and are easily recognized by their numerous slogans, such as Where the Winds of the World Blow, The Crossroads of the World, Where the land was Divided so the World Could be United, etc.

"I am pleased that I am able to clear up the matter concerning IRF or IRS. Quoting from their letter: 'Please note however that the call letters of our transmitter are IRF and not IRS as you thought you heard. The wavelength is meters 37.15.' This is another of the numerous Italo Radio stations, whose address is Societe Italo Radio, Servizi Radio-elettrici, Via Calabria No. 46-48, Roma 125, Italy."

The Army Stations

"Concerning the report on two mysterious stations VK1 and IS3 in a recent number of RADEX, I think I can clear up the mystery," commences almost a hundred letters from readers all over the United States and Canada. We cannot possibly acknowledge all the letters.



This is Norquay Scott, 279 Briar Hill Ave., Toronto, Ontario with some of his hundreds of verifications. He hears stations from all over the world with his short wave receiver.

so merely say THANKS to everyone who took the trouble of writing. These are Army Airways stations working on various wavelengths near 45-46 meters or 6645 kc/s. at all hours of the day and night. A list of these stations, compiled from the letters sent in by our readers, follows:

A77, Barksdale Field, La.; BB1, Maxwell Field, Montgomery, Ala.; FG7, Langley Field, Va.; G24, Fort Crockett, Texas; IS3, Bolling Field, Va. (Washington, D. C.); JJ6, an army airplane; MN6 and MN7, Maxwell Field, Ala.; PD1, Maxwell Field; PE2, Wright Field, Dayton, Ohio; VK1, Selfridge Field, Mt. Clemens, Mich.; WO9, Mitchell Field, N. Y. The locations of the following stations are unknown: M36, M37, M38, SP91, SP93, and SP94. A "Wing One" in California was also reported.

DX Time in the Rockies

DX'ers in the Mountain States seem to be scarce, so a report from Eric Butcher of Cokeville, Wyo., one of the two lone members of the IDA in that state, was read with considerable interest. "TIEP is heard every p.m., also COH, COC and HJ1ABB, but a fellow in this locality has to guess at about half of these station programs; 6200 ft. elevation in the mountains makes clear reception difficult," writes Mr. Butcher. "South Americans are rarely understandable although PRF5 is pretty good. W9XAA of Chicago reads letters from listeners every Saturday and Sunday afternoon. One of my best catches is JVM which I heard talking to KWO. I have just logged the new Panama station HP5B which came through with surprising clarity."

S. W. in England

"DX reception on the broadcast band has been very poor lately so I have been obliged to turn to the shortwaves," writes John M.



Arnold Johnson, conductor (left), and Ray Perkins "comedian," during a bit of horse-play in connection with the National Amateur Night program over the See-Bee-Ess. They audition hundreds of amateurs each week and present those they think best qualified. Those that fail get the Perkins' raspberries. Sundays from 6:00 to 6:30 p. m. EST.

Wheeler, Redcourt, Lee-on-the-Solent, Hampshire, England. "The stations best received are COC, W8XK on 48.86, VE9GW and W8XAL. During the past week I have observed a powerful Spanish-speaking station on 49.52 meters working after 7 p.m., GMT. I have not heard any call or announcement in English but believe the station is LU8AB in Buenos Aires. A clock strikes each hour, three hours behind GMT. This would tally with the Argentine as they are now in summer time. I expect by the time this letter reaches you this will be stale news." As the time given, 7 p.m., corresponds with 2 pm, EST, it is nearly impossible to hear this strange station here. Will some of our South American readers kindly aid Mr. Wheeler in identifying his stranger?

Does DJC Reach the West?

"Germany seems to be greatly worried over the distance DJC covers, and doesn't cover. Every evening before ringing the time at 5:45 pm, EST, they mention that they receive many reports from eastern USA but none from the mid-west and western sections, and wonder if they are not being heard out there," from Geo. W. Acker, 267 N. Lyman St., Wadsworth, Ohio. "It seems to me that at least a peep ought to be heard out of DJC in the

west, the way it pounds in here. The main trouble with DJC seems to be, in my opinion, the fact that every jerk-water station that springs up, works on DJC's frequency. First it was XEBT, sometimes COC, now HP5B. It is a shame that such stations should ruin the splendid programs of the German stations."

New One in Manizales

"Tonight I positively identified a new Colombian on about 49.15 meters from 5 to 6 pm, CST. It was HJ4ABM, Manizales," postcards John A. Shanks, Russelville, Tenn. "I have heard a station which I believe to be TGW on 50.3 meters but am not sure. Also receive the new Dutch station PCJ."

A change has been made in the PCJ schedule. Mr. Seelenberg of N. V. Philips advises us that PCJ works on Sundays only, simultaneously with PHI, from 8 until 11 am, EST. PCJ is on 15220 kc/s. or 19.71 meters.

On one of their recent Saturday night broadcasts, COC at Havana announced their new schedule as 8:30 am to 12:30 pm, and 4 to 7 pm, EST, daily, and on Saturday nights from 11:30 pm to 12:30 am.

S. W. on One Tube

"I have a little one tube portable receiver and have very good results from it," comments E. C. Cope, 120 Platt Ave., Hamilton, Ont. "The following are some of my best catches: Daventry, Zeesen, Geneva, Rome, ORK, PHI, PRF5, PRADO, HJ1ABB, -4ABB, HC2RL, KNRA and YV2RC. I use only 15 feet of antenna. This length seems to give the best results."

"The outstanding stations of the month here are DJD, GSD and W3XAL on 16.8 meters, which, for the past few weeks have really always been at least R7 to R9," contributes A. C. Lyell, P. O. Box 4536, Johannesburg, South Africa.

"Sydney, VK2ME, is seldom heard here for some unknown reason, but VQ7LO and W9XF come through quite regularly."

Another from Britain

"Some readers may be interested in s.w. reception on this side," surmises W. H. Pierce, 6 Glanfield Road, Beckenham, Kent, England. "The most consistent U. S. stations are W3XAL on 17780 kcs. during the afternoons and W8XX on 6140 kcs. at night. Usually they are R8-9 on the loudspeaker, using 6 valves in a superhet circuit. I have logged at good strength VK2ME, PLF, PMB on 20606 kcs. and the Colombian stations also come through excellently sometimes and I am now hoping to get the Philippines and Hawaii. South Africa seems almost impossible to get here but VUB Bombay arrives clearly although not very loud."

Briefing some Reports

"I wish to report a catch which I recently got, HP5B in Panama City, which I hear between 7 and 8 pm, CST on 6030 kcs. with good volume," writes G. T. Magee, 2809 So. 13 Ave., Birmingham, Ala. "I am using a Perfect Phone adapter with good results. Would like to hear from persons using a Grunow 1151 with phones."

"Recent shortwave catches include the following," postcards Irving Goodeve, 1619 Krom Ave., Kalamazoo, Mich. "HI4D at 11:45 pm, EST, on 6440 kcs. PHI at 10:30 am, QSA5, R8; ORK in Brussels comes through well at the end of its schedule, 3:45 pm, with R7 volume."

"I am a newcomer to shortwaves but am getting to be just as much a fan as anyone else. In the early part of December I bought an RCA Victor 118. I now have 51 stations on s. w. and my log is growing rapidly, including Daventry, Zeesen, HIX, HJ1ABG, HVJ, HBL and as I write I am listening to what I be-

lieve is HJ1ABB." The reporter is Richard W. Fales, Intervale Ave., Roslyn Estates, Long Island.

Two Spanish-Speaking Unknowns

"I heard a Japanese station running a series of v's on 6770 kcs. at 4:30 pm today. He signed JNL and JNM. His sig seemed to be tone modulated and I wonder if he ever uses voice," questions L. T. Lee, Jr., Box 12, Union Springs, Ala. "The 49-meter band is fine now, with 31 and 25 meters very poor. I wonder if readers can help me identify a Spanish-speaking station on about 74.3 meters, and another on 7100 kcs. I am an ex-ham, former W4IA for years, but now my radio activity is confined to listening. I have a converter on which I have logged 40 countries during the past year."

Correspondence from DXers in every part of the world is invited by Harley G. Slough, 3835 W. 20th Ave., Vancouver, B. C. Mr. Slough commenced tuning the shortwaves last October with a 6-tube Globe Trotter, but now has the 12-tube model with an RCA s. w. antenna on which many foreign stations have been heard.

Like Their Sets

"I just bought a National A.C.S.W.-3, a set which meets my desires exactly," enthusiastically writes Dr. Francis E. Bedinger, Equitable Bank Bldg., Walton, Ky. Of course I do not have a log of stations to compare with those who have been tuning for a long time, but I did get up early one morning and logged VK3ME and VK3LR. Have had some difficulty identifying the South Americans but definitely logged YV3RC, HJ1ABB, HJ5ABD, Prado, etc. I hope to become a good DXer when I become more familiar with my set and have a little more time to spend with it."

"I started my log a month ago and it now contains 70 broadcasting stations and 30 s. w. stations. My set is an Over-Ocean and I wonder if

other people with sets like mine have very good luck. Stations I have logged are HP5B, PRF5, TIEP, Pontoise, in addition to the usual Europeans and South Americans." So writes Arthur Viner, 5554 Kenwood Ave., Chicago, Ill.

Gets Australian Verie

"I have finally received my verification from VK2ME, just as you said I would in the December RADEX, although I waited four months for it," comments J. Ficere, 3510 E. 2 St., Long Beach, Calif. "I am sending International Reply Coupons* now instead of pennies and nickels. I recently bought a Patter-son 185 all wave set which goes down to 8 meters and it just about gets everything. I use it in conjunction with an RCA antenna."

Charles Dooley, 731 Elberon Ave., Zanesville, Ohio, has just obtained a G. E. 8-tube all-wave set and is about to start collecting verifications, but meanwhile would like correspondence from owners of General Electric radios.

The strange station is Santiago de Cuba mentioned in last month's RADEX was identified by Ansel Gridley, P. O. Box 1294, Sarasota,



Here we have the Vallee family, Brother Bill, Rudy and Father Charles. The reunion took place at the time of the beginning of a winter engagement of the popular entertainer at the Hollywood Restaurant in New York. On the Yeast Hour each Thursday over the NBC-WEAF chain at 8:00 p. m. EST and Tuesdays at midnight on WJZ and affiliates.

Fla., as CO9GC. Their address is mentioned as P. O. Box 137.

A Good Day

"This afternoon was the most unusual I have had so far on my radio. About 5:00 pm, CST, I picked up HJ1ABB, Barranquilla, Colombia, playing an American musical program which included such songs as The Old Oak Tree, Moonlight on the Colorado, Rose Marie, etc. Afterwards I heard W2XAF, Schenectady, N. Y. and HJ1ABB working duplex. They decided to have another program in a few weeks. Later the same evening I heard 2XAF talking to LSX in Buenos Aires." A. V. Deterly, 125 East Blvd., Baton Rouge, La., is the writer of the letter.

"I have been out of radio for about 10 years, and only a week ago got myself a 7-tube super. Using only a wire around the border of the room, I picked up, on a Saturday night and a Sunday morning, COC, VE9GW, many amateurs and police, then, at 3:55 am, I turned to the dialing for Australia and to my intense surprise heard the kookaburra of VK2ME. Later in the day I logged GSE, RNE, GSB and YV3RC. No unusual stations here, perhaps, but I was very surprised to say the least of getting these Europeans in the daytime!" writes Roy E. DeMent, Plainview, Texas. "Since this first highly successful day I have logged on the dynamic EAQ, CP5, HJ5ABD, Prado, TIEP and KNRA."

Concerning W1XAL

Advance copies of the monthly programs of W1XAL, Boston, will be sent on request to the Educational Director, University Club. Since the inauguration of these programs last December countless numbers of reports have been received from every state in the Union, Canada and many foreign countries. A slight change has been made in the operating hours of W1XAL; on Sundays transmis-

sions are from 5 until 7:30 pm, while on Tuesdays and Thursdays they commence at 7:30 pm and continue for about two hours. W1XAL is found on the dials between GSA and DJC and for the past month have quite successfully ruined reception of these two European stations.

Two readers would like correspondence from others. Irving Thome, 508 16th Ave., Newark, N. J., wants to hear from users of a Philco 45. Irving is a successful tuner, having nearly 50 foreign stations to his credit.

Elmer Wall of RFD No. 1, Box 116, Mountain Lake, Minn., solicits letters from all DXers. Elmer uses a one tube all-wave set on which he has logged 26 overseas stations on every continent except Africa.

The New YV6RV

The completion of the new Venezuelan station YV6RV was delayed for several months due to their difficulty in getting certain parts, but just as we go to press the initial test transmissions are being heard nightly on their assigned frequency of 6030 kcs. It is fortunate that YV6RV chose the early evening, prior to 6:30, for his tests, as this frequency is also employed by HP5B and if these two powerful signals were to be on the air at the same time the result would be interference of the worst kind.

YV6RV, known as "La Voz de Carabobe," is situated in Valencia, Venezuela, being the property of the Sres. Hermann Guillermo Degwitz. 500 watts power is employed at present. During its test transmission an interval signal was heard a few times, consisting of 5 musical tones played in ascending and descending scale. No English was used but the location, given in Spanish, is easily understood. YV6RV is heard between 6 and 6:30 pm, EST.

*International Reply Coupons may be secured from any Postmaster. They are good for one letter from any country.

A RADIO with a "MAGIC BRAIN"

• • • By B. FRANCIS DASHIELL

THE 1935 RCA-Victor creations provide everything that is automatic in all-wave radio reception. The makers say these sets have "Magic Brains." Perhaps this is not a bad idea—calling the tuning unit of a radio receiver its brains. After all, the ability of the modern all-wave receiver to reach far out and tune in station after station to the exclusion of all others, calls for something akin to mechanical, magic brains.

These all-wave receivers are modern to the highest degree. The perfect tuning unit—The "Magic Brain"—concentrates the set entirely on the station that is being sought. All other signals are shut out. In fact, the tuning circuit enables the listener to operate the receiver as if it were a separate set built individually for each of the several wave bands used. Tuning is critically accurate, but the actual operation of dialing is easy and almost entirely automatic. The tone quality favorably demonstrates the high fidelity of sound reproduction in the audio and speaker units.

Models 143 And 242

Of several models, one of the most popular types, a good all-around eight-tube receiver, operates on four separate wave bands. This chassis also is offered in two models—No. 143, a semi-cathedral table type, and No. 242, a large, console cabinet type.

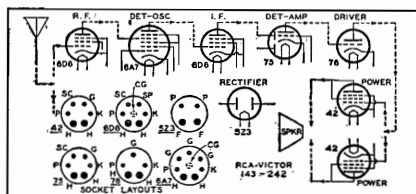
Model 242, which uses the same chassis as model 143, is an eight-tube superheterodyne set. It has a tuning range that embraces four wave bands. The long wave, or famous RCA-Victor "X" band, covers a range from 140 to 410 kilocycles. This band brings to the listener the business of aviation as well as important and useful hourly weather reports. Also, there is long-wave broadcasting from

some European stations to be heard on this band.

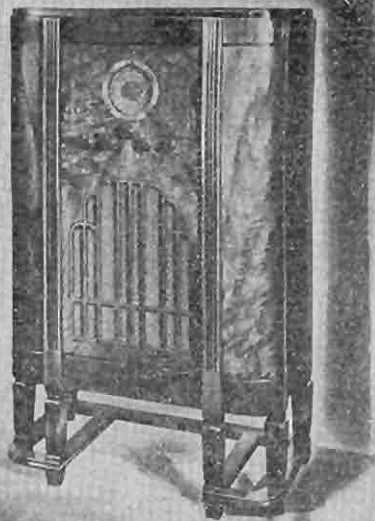
Four Wave Bands

The standard broadcast band, between 540 and 1,800 kilocycles, includes all broadcast stations. Most of the police calls appear also on the short-wave end of this band. Next comes No. 3 band. It is the first of the short-wave bands and has a range from 1,800 to 5,600 kilocycles (1.8 to 5.6 megacycles). It covers the police, amateur and aircraft signals. The second of the short-wave bands includes all of the short waves, international and domestic, between 5,600 and 18,000 kilocycles (5.6 to 18.0 megacycles). This is the fourth and last wave-band of the receiver.

Eight tubes are used in the No. 143 and No. 242 chassis. The first is the 6D6 radio-frequency amplifying tube. A 6A7 pentagrid converter tube is used as a combination first-detector and oscillator. It performs simultaneously the functions of two tubes, but with the independent control of each. One stage of intermediate-frequency amplification—a 6D6 type tube—is satisfactory. A type 75 tube is used as second-detector, amplifier and automatic volume control. The audio-frequency driver tube is a type 76; it feeds into two pentode power tubes—type 42s. The audio circuit provides high gain with an output of six watts un-



Tube Layout of the "Magic Brain"



The RCA-Victor Model 242

distorted power. This gives plenty of energy for weak signals. A type 5Z3 tube is used as a rectifier. The layout of the tube sockets and a general arrangement of the tubes in the circuit is shown in the simple diagram illustrating the model 143 and 242 chassis.

Dial And Speaker

While the chassis used in types 143 and 242 is identical, the former model utilizes an eight-inch dynamic speaker set in a table model cabinet, and the latter has a ten-inch dynamic speaker in a large, console cabinet.

The improved dial with its double-end indicating needle makes tuning a pleasure. It is illuminated to give excellent visibility. The simplified action enables anyone easily to pick up the difficult-to-locate signals from the four corners of the earth. The tuning control-knob and its drive has a dual ratio, that is, it has a slow action of 50 to 1 for the very short waves, and a faster 10 to 1 action for broadcast and long waves. The

tuning knob is pulled out to shift to the 50 to 1 tuning ratio.

The Controls

The tone control is variable throughout the range of audio frequencies. This insures high fidelity of reproduction. A switch changes the tuning to band spreading on the short waves. There is an accuracy-pointer for this separate band-spread scale. It is geared to the main tuning dial-needle so as to provide super-vernier tuning. A sensitivity control cuts down the interstation noise by adjusting the receiver to the amount of energy being picked up from weak stations. The chassis also is adapted to the RCA double-doublet antenna and has provisions for easy connections. Any doublet antenna may be used in connection with a receiver impedance-matching transformer or coupler.

The airplane type dial is divided into the four wave bands covered by the 143 and 242 models. When the selector switch is set to any one of these four bands an appropriate letter indicating the band in use instantly appears in the lower, center half of the dial. The chassis can be adapted for reception of C. W. code signals without changes in wiring by employing additional beat-note oscillation. The makers are prepared to furnish these details.

Other Models

In addition to the models 143 and 242, there is a five-tube dual-band broadcast and short-wave receiver. This is model 118. It embraces all the broadcast band from 550 to 1,720 kcs., and a single short-wave band from 5,400 to 18,000 kilocycles. It uses the 6A7, 6D6, 6B7, 41 and 80 types of tubes.

Model 128 is very popular. It has six tubes and covers three bands—540 to 1,720 kcs., 1,720 to 5,400 kcs., and 5,400 to 18,000 kcs. There is an eight-inch loud speaker. Model 124 has the same chassis but

(Continued on page 45)

INTRODUCING *the* New Lady Comic

• • • By "BETTY"



BEATRICE LILLIE was born at Toronto, the daughter of John Lillie, an Englishman who had served his country abroad for many years, and Lucie Shaw, concert singer of Spanish-Irish extraction. Beatrice and her sister Muriel both received musical instruction, the future comedienne as a vocalist, and her sister as a pianist. The girls went to primary school in their native city. A fellow pupil was a curly-headed blonde named Mary Smith who later became rather well known as Mary Pickford.

Mrs. Lillie wanted both her daughters to go on the concert stage, and while Muriel progressed nicely, she became somewhat discouraged about Beatrice. She got the latter a position singing in a church choir.

Beatrice next was sent to study

with a local teacher named William Shakespeare. She was trying to become a "serio-comic" singer. Part of her training was devoted to the study of "elegant" gestures. After a short period Mrs. Lillie decided to take a chance and take her daughters on a concert tour with her. They were billed as the Lillie Trio. Beatrice put an end to this engagement very quickly. During one of her mother's solo numbers she went behind the curtain and whacked her parent with a broom through the backdrop. The resultant discordant screech may have been the inspiration for many of her present deliberate off-pitch cackles.

Sister Muriel in the meantime was doing very well at the piano, and her parents decided that a year or two of instruction with a European coach would be the thing. Germany was selected. The family sailed, and before they reached the other side the World War broke out and Muriel never did get to Germany. The Lillies settled in London.

Hunting a Job

Beatrice started out to find a job on the stage. She went from theatre to theatre and from booking-office to booking-office demonstrating her talent as a "serio-comic" artist. Her unquenchable sense of humor proved to be a saving grace. She managed to get a hearing before Andre Charlot, the noted producer, who held the same position in London that the late Florenz Ziegfeld had in New York.

She had always had a penchant for mimicry and burlesque. Not caring a great deal whether she got the job or not, Beatrice decided that Mr. Charlot would hear a broad and ri-

diculous parody of "serio-comic" singing. She did her number and ended it by falling over a suitcase she had brought along in utter confusion. The showman in Charlot recognized that here was something new, and the young Canadian girl won her first contract.

Bea Lillie was far from an overnight success. As a matter of fact, the first thing that called her to Londoners' attention was the applause she received from Canadian troops who came to hear her during their leave from the trenches. Her first great hit came through her rendition of a song imported from America by a little-known composer named Irving Berlin. The tune was "I want to Go Back to Michigan." By the end of the war Beatrice was the toast of London. She married Sir Robert Peel, scion of a distinguished British family. One of her triumphs during this period was "Nine O'clock Revue," the music for which was written by her sister Muriel.

Her American Debut

Beatrice Lillie was first seen by American audiences in 1924 when she starred in "Charlot's Revue." For the next few years she became a regular transatlantic commuter, with leading producers in New York and London angling for her services constantly.

While she was appearing in Chicago her father-in-law died in London. This meant that her husband succeeded to the family title and estates and she became Lady Peel. Professionally she regards it as a disadvantage. In addition to stage work in this country, she has also appeared before Hollywood cameras.

She is five feet two, but seems taller because she's so slender . . . does all her broadcasting from a high chair . . . once thought she would like to become a tragedienne but decided she could never muster up enough seriousness . . . lives on fash-

ionable East End Avenue in New York and her apartment overlooks the river . . . a piano which she plays badly with two fingers stands in her living room . . . her intimates include Noel Coward, Marc Connelly, Cole Porter and Alexander Woollcott . . . is an expert rifle shot.



DRAKE of "DIANE"

Alfred Drake is a promising young baritone who took his first vocal lesson in June, 1934, and six months later was selected from more than 300 competitors to sing with Rhoda Arnold, prominent Columbia soprano, on "Diane and Her Life Saver," broadcast over the CBS every Monday and Wednesday at 8:00 p. m. EST. He made his radio debut on a nationwide hookup on January 7, 1935, without any previous microphone experience whatever.

Alfred is an attractive young chap, just 20 years old, with brown hair and green gray eyes. His real name is Alfred Frederick Capurro and he

takes pride in a distinguished Italian lineage running back on his father's side to the days of Roman warriors and on his mother's side to a family of Genoese nobles. The young singer was born in Brooklyn on October 7, 1914. While normally athletic and active in school affairs young Drake proved to be a voracious reader and the list of his favorite authors would make a sizable dent in a well-equipped library.

He has a dozen hobbies—cards, stamp collecting, tennis, pocket billiards, the study of paintings and many other activities. He helped to defray his expenses at Brooklyn college by singing in various glee clubs and choirs and helping in his father's restaurant. Today he isn't quite sure where he found time to follow up all his pursuits with his interest in sports and his musical activities.

He is now president and baritone soloist of the Brooklyn College Choral Club and found time to develop familiarity with three foreign languages, French, Spanish and Italian. Next to people and music Drake takes his keenest pleasure in Italian cooking. He's quite an expert himself in preparing ravioli, beef and scallopini Vittelate.

Incidentally, "Cappy" as he is called by his classmates, is a genial soul with a long list of pet "hates," including mathematics, Latin, the works of several popular authors (whose names we shall omit), spinach, perfume, etc. Alfred's voice is a robust mellow baritone and its development will be worth following.

* * *

WANTED: ONE FEMALE TUBA PLAYER. Such was the demand of Phil Spitalny, director of the all-feminine orchestra now featured on Lin-it's "Hour of Charm" each Thursday at 8:00 p. m. EST over CBS. Yet out of 1,100 girls who tried out for the 32-piece band, there wasn't a single candidate for the position of tuba

tooter. Not easily discouraged, Phil hired a trombone player and proceeded to teach her how to play the "hippo horn" of the orchestra. She's Billy Jenks, former student at a New York conservatory.

* * *

Frank Munn is going to take a real vacation one of these days, for in eleven years of broadcasting, the noted tenor of the air hasn't taken a trip beyond a day's drive from Manhattan. It's because Frank has been constantly in demand on the air and hasn't felt the need of a protracted absence from the microphone. But when he does leave for a trip, Frank declares, "I'm going to take the first boat that goes the longest distance from New York."

* * *

Frank Luther, who is probably radio's most versatile performer, has reversed the adage: Jack of all trades and master of none! Luther is one of the country's leading recording stars; is featured regularly in moving picture shorts; appears as soloist on several well-known broadcasts, and plays several instruments in concert and on the air. He's also organizer and leader of the male trio, The Men About Town.

* * *

When Conrad Thibault, baritone star of "Club Romance," which Hinds' Hall of Fame is presenting over CBS Sundays at 8:00 p. m. EST, was given the leading role in the musical serial and asked to act as well as sing, the offer didn't find him unprepared. For the past 18 months, in addition to his singing, Thibault has been studying under a famous dramatic coach. He takes three dramatic lessons a week.

* * *

Frank Parker will probably restrict his radiocasting to Jack Benny's Sunday programs when he joins the cast of the "Follies" as rumors have it he will. Frank is becoming

known as "the comedian-tenor," and his experience in handling comic lines on the Benny programs is a factor in receiving an offer from the producers of the elaborate revue.

* * *

Hollywood stars who head East with a yen for the spoken drama have their eyes on the Lux Radio Theatre on NBC's blue network Sunday afternoons. With contracts in the movies now permitting film stars only one or two radio appearances a year, the biggest stars of the talking pictures "aim" at the Lux Radio Theatre because they have a whole hour in which to do their stuff.

* * *

Mary Pickford, who has added to her prestige as "America's Sweetheart" by her successful presentation of tabloid dramas on NBC, still goes to school. She takes weekly lessons in diction from Oliver Hinsdell, Hollywood dramatic coach, and music lessons twice a week. For years she has studied French with the result that today she speaks it like a native Parisian.

* * *

Peeps into the personality of Frank McIntyre, skipper of Captain Henry's Show Boat on NBC: Still has, and uses, after 30 years on the stage, the same dressing gown with which he began his theatrical career . . . has a collection of 200 neckties . . . lives at the Lambs Club in New York, where he has been a resident 25 years . . . pet aversion, wrestling matches.

* * *

Jane Froman and her husband, Don Ross, are both making movie tests for M.G.M. A number of film companies have been after the lass with the orchid-lined voice and she finally consented to make a test. But she will not go to Hollywood until spring.

Wants More Tips

AFTER standing by for a period of over two years, the dials are twisting again at Station ICJ," proclaims Irving C. Johnson, 1926 Argyle St., Chicago, Ill. "A Zenith 880 is now the official receiver at this station with an AK doublet antenna. Give us more real DX tuning tips. The average DXer does not care a whoop if some other fellow has logged 838 but if he can glean just one good tuning tip from some contributor, he will certainly be gratified. With present-day receivers it is not difficult to run up a long log. In 40 days we have logged over 600 stations—400 on the b. c. b.

"Here are my tips: That Spanish-speaking station on 990 referred to by John L. West, is XEAF at Nogales, Son. (Moved this month to 540. Ed.) The station that gives KYW a battle every night on 1020 is XEJ at Juarez. KFRO at Longview, Texas, is a new one that can be found in the early morning testing on 1370. For the s. w. fans, CT1AA is now on the air Saturdays also and can be heard with a nice signal from 4:30 to 7:00 EST. Almost every morning around 4:30 EST, JVT, Tokio, comes in with a clear but not very loud signal. From what little I could understand, they act as s. w. transmitter for JOAK. If you have never logged them, just tune in at the time mentioned on 6.750 megs. and, if you hear music and talk, the like of which you have never heard before in your life, you will know you have them. A confirmation from Rome indicates that IRA uses the call 2RO when broadcasting American programs on 6.070. They can be tuned in every Monday, Wednesday and Friday around 6:00 EST with a powerful signal when transmitting as 2RO."

THE EDITOR *and* "His Public"

WE ARE planning what should be a very popular article for the April issue. We have asked Mr. Dashiell to write a story on "How to Run Down Radio Noises." More of the letters we receive from our readers concern this matter of man-made static than any other one problem. Sooner or later a noise bobs up to interfere with the reception of every listener.

Some of the points we want to cover in this article are how to diagnose the noise, that is, how to tell from the sound of the noise something of what causes it; how to decide whether the noise is from the set itself, from the home or from the neighborhood; how to locate it in the house; how to trace it down if it is in the neighborhood.

A Cover Is Convenient

"My RADEX is almost completely worn out by the end of the month. Can't they be bound more securely so they will stand this wear?" This is an inquiry that comes to us frequently. It is impossible to bind the leaves to stand the amount of wear that an issue of this magazine receives. We could bind by side-stitching as are the thick, heavy magazines but such books do not open up well or remain open. We think that this method of stitching would not be convenient for a reference book such as this. Those of our readers who have secured the leatherette cover find the problem completely answered. In this cover, the book is held by a silken cord which passes through the center of the book thus taking all strain off the staples.

In this connection, we often receive inquiries for a cover which will hold the ten issues of each year. The cost of such covers is greater than the cost of the year's subscription. We have not supplied them because

we feared the number who would care to go to this expense to bind their old issues, would be too small to warrant the investment.

Choosing the Best Programs

Under the sponsorship of Philco, there has been formed The Radio Institute of the Audible Arts with headquarters at 80 Broadway, New York City. The purpose of the Institute is "to increase the listening audience for worth-while programs." To this end the Institute has published three small hand-books analyzing the better programs on the air and presenting interesting information regarding each. One of these is entitled "Talks" and another "Music." The former lists the more worth-while talks available by hours and days and tells something of the subject-matter of each. The latter likewise lists the recommended musical programs and gives the names of the principal artists, conductor,



"Let's Dance" is the invitation these three maestros extend to the radio audience for three hours each Saturday night over the WEA F chain of the NBC. All over the continent rugs are rolled back and dancers sway to the music of the orchestras of (left to right) Benny Goodman, Kel Murray and Xavier Cugat. At 10:30 p. m. EST.

etc. A third brochure is entitled "Recommended Radio Music Programs with Comments". These books may be secured by any listener by addressing the Institute. To those who are seeking the best the radio has to offer, it is recommended that they ask to have their names placed on the Institute's mailing list.

Still the letters come in from Canadian readers in regard to the ballot on systems. Some of these point out at great length why the result of the ballot was not truly representative of the opinion in Canada. We wish we had room for these reviews but we have given about all the space to this feature than can be spared and will therefore have to declare the ballot closed, inconclusive as the result was.

"The Universal Radio DX Club of San Francisco, Calif., celebrated its first birthday on December 1," announces Russell Heller, 42 N. 5th St., Emaus, Pa. "During this year it has grown to a club of 165 members. The dues are one dollar a year. The club issues a bulletin every ten days containing tips and news with a s. w. section. The Universal has joined the inter-club co-operative movement with the IDA, NRC and CDXR to prevent their DX specials from interfering with each other. The headquarters are at 2559 Polk St., San Francisco."

"I am putting on a little DX tips and news period over WLAC every Saturday night from 11:50 to midnight, CST," states Cappie T. Hadley, 909 Gilmore Ave., Nashville, Tenn. "The station is heard pretty consistently from coast to coast."

It is reported that WLBW will change its call to WHIO now it has moved to Dayton. As there is already a short wave WHIO we are awaiting developments before making the change in calls.

Closing with the subject we started

out with, some of the articles we have already published are given below for the benefit of those who would like to make reference to them. "Can Static be Eliminated?" in September, 1931; "Getting Rid of Radio Noises," in April, 1932; "The Problem of Eliminating Hum," in May, 1932; "Minimizing the Noise Nuisance," in April, 1933; "Static-Reducing Antenna Systems," in October, 1933; "Is Your Antenna 100 Per Cent Efficient?" in the October and November, 1934, issues. We can send any of the back issues upon receipt of price.

Experimenting with Aerials

● ● ● By WALTER C. EVERHART

I AM situated in the business district and have plenty of trouble with man-made static—signs, street-cars, etc. As a result of much experimenting, I now have three aerials which give me excellent results. One is around 70 feet high and 80 feet long including leadin. It runs SW by NE with the leadin coming off the north end. The aerial slants down to the set. I have found that having aerial and leadin one piece and with the set end of the aerial lower than the far end, make a big difference in reception.

My second aerial is only about 30 feet long running straight north and south and the construction is the same as the first. The third aerial runs east and west with the leadin coming off the center and the two halves of the aerial sloping toward the leadin somewhat like a flattened letter Y. The three aerials run to a double-throw switch so that I can use 1, 2, or 3. By running a short wire from the aerial post of the set with a clip I can use all three aerials or any combination of them.

I have found that the east-west aerial is better for South American

s. w. reception and that the longest one (NE by SW) is best for Europeans. The short aerial I use when interference is bad. I switch from one to the other depending upon the section of the country in which the station is located. As all three are different lengths it helps to separate stations. I sometimes find that by switching from one to the other brings back a station that has faded out. There isn't much I can't get and my Scott 12-tube all-wave set is four years old with all the original tubes.

Three Grounds

Likewise I have three grounds all of which are connected together, however. One is an old automobile radiator, one a galvanized pipe nicked every couple of inches so the water will seep out, and one an old copper boiler with a wire soldered to it. Pipes extending from each of these grounds to the surface, enable me to keep them well supplied with water in which I dissolve common table salt and a little blue vitrol.

I find that this combination gives me the best result and I have tried many other aerials and grounds. The underground aerial cuts signal strength, the umbrella isn't as good as my straight line type, the counterpoise is too noisy; the inductance, the indoor and the loop are limited in their pick-up.

I have a log of close to 500 stations on the b. c. band of which around 200 are 100-watters and less. These cover every state except Maine and New Hampshire, Canada, Mexico, Cuba and Haiti. I can get every frequency at night and have almost everything on the Pacific Coast from San Diego and El Centro up to Vancouver.

On the short waves I have France, England, Germany, Italy, Spain, Cuba, Australia, Haiti, Mexico, Japan and South America. The Paris and English stations I can get any time in the afternoon along with the



Rosaline Greene is Mistress-of-Ceremonies for "The Hour of Charm." Radio's first all-girl vocal and instrumental ensemble. Miss Greene is one of the feminine pioneers of Radio. Phil Spitalny. Miss Greene and 30 girl instrumentalists and singers may be heard every Thursday evening over the Columbia System at 8 p. m. EST.

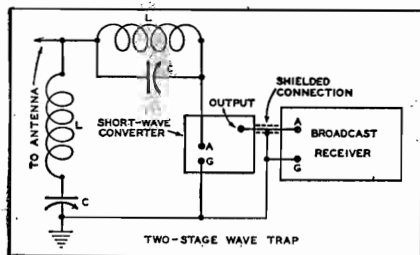
Americans and Canadians which I have completed and which I can receive at will. Germany, Italy and Spain come in well but a little weaker and not so regularly. Cuba and Mexico come in very strong but fade badly. They are quite regular. Australia is very strong and clear. The South Americans all come in very strong and I think I would have just about all of them if I only could understand them. Japan is understandable but quite noisy with a lot of fading.

In closing, here is a kink which may prove of value to those who use head-phones. I came across it by accident and it seems to help greatly when the static is bad as it clears it up so that you can listen to those stations which come in strong but can't be understood because of the static. Simply pull one phone tip out of the jack and listen to the phones through one cord. It cuts the signal strength in half but it also reduces the noise background. At the same time it seems to pitch the music up higher in the scale so one can hear it better. It's worth a try.

*104 Front Street, Fargo, N. Dak.

Noises, Whistles, Weak Signals, Etc.

● ● ● By THE TECHNICAL EDITOR



THE dial of my Crosley Jewel-Box 7-tube receiver has to be set at 1,000 kilocycles for best results when using it with a Philco shortwave converter. The converter is peaked at 1,000 kcs., Station WHO, on 1,000 kcs, therefore comes through the converter and interferes. Does the fault lie with the Crosley because of broad tuning? If so, how can it be overcome? If I change the dial setting of the receiver from 1,000 kcs., when the converter is being used, I get a station on the frequency to which the set is tuned. What do you suggest?

A very short antenna will provide sufficient energy to a present-day broadcast receiver. Therefore you can easily see that your receiver will function because the wire connecting the converter and receiver acts as an antenna. This wire must be very short and should be thoroughly shielded, as should the receiver also. This will prevent the reception of undesired signals to which the receiver may be tuned—in this case on 1,000 kcs.

If the undesired signals are still heard, a filter should be used. This is the fixed-tuned type. The proper circuit for a pretuner wave trap is shown in the accompanying diagram. The coils, marked L, are standard broadcast tuning coils, and the condensers, marked C, have capacities of

.00035 mfd. each. This circuit is tuned to 1,000 kilocycles, and the sharpness of the tuning will provide greater selectivity and less interference.

A Weak Philco

My Philco 16X does not seem to "DX" at all. Can I tune the antenna so as to get more distance? They say this set has an automatic device for tuning the antenna. How should it be adjusted?

The Philco model 16X is designed for distant reception. When properly adjusted and in good condition, the short wave system should give excellent distance results.

There is a wave trap in the antenna circuit of this receiver for the purpose of reducing image-frequency interference. This has nothing to do with tuning the antenna for high frequencies. The only way that this can be done is with the use of a doublet antenna, cut to the proper dimensions for the frequencies desired. A pre-selector is not needed.

Your Philco either has lost sensitivity through poor tubes, incorrect adjustment, or some actual defect in the circuit. The falling of adjustment is the most likely cause of the three.

If the receiver is out of adjustment on the high frequencies it would be wise to get the best serviceman available as this is a very difficult task and only a few shops are fully equipped to do such work.

This Set Whistles

I have a 1933 Philco all-wave 16B receiver. It has developed a whistle between stations on the broadcast band. Code stations try to push through on 930 and 1,040 kcs., although interstation noise-suppressor is on. I have a doublet antenna with twisted

transmission line. Can it be the i.f. transformer is not peaked right? The code comes loudest on 930, which is exactly twice the intermediate frequency of the set.

If the undesired code signals have sufficient intensity to form a signal in the broadcast band above the noise level or at least above the minimum required to actuate the noise suppressor circuit, the noise suppressor is not likely to do any good.

This receiver is provided with a wave trap tuned to 465 kcs., at the antenna circuit. Some of the signal pickup may take place beyond this trap and thus get into the r.f. and i.f. systems. The adjustment and shielding of this unit as well as the leads to and from it are important. Without this wave trap there is only one tuned circuit ahead of the first detector, and this is not able properly to select the desired signal from the undesired signal, especially in the case of a powerful code signal on a frequency near 465 kilocycles.

The whistling on distant stations of the broadcast band may be attributed to oscillation of the i.f. amplifier. This in turn may be due to coupling of one stage with the previous stage through the automatic volume control system. If any of the a.v.c. filter units are open, this feedback will occur.

We advise you to look for open bias by-pass condensers and associated resistors, as open units will cause oscillation. Your serviceman can quickly detect these open units with his testing apparatus.

His Kadette Jr. Hums

There is a bad hum in my Kadette Jr., radio set. Can you suggest the location of this annoyance?

Hum in this set, which employs only two tubes, is likely in the filter portion of the circuit. You need not be concerned about the resistance in

the cord as long as the tubes light up.

There is a bypass condenser attached to one of the leads from the power line. One side is grounded, and you must make sure it is operating and not open or disconnected. There is a small resistor between the grounded chassis and one of the three sections of the triple filter condenser unit that goes to the cathode and grid of the 12A7 tube; make certain that this resistor is not broken or defective. There is another similar resistor across the remaining two sections of the triple condenser. The lead from the speaker field coil feeds two plates and a grid of the 6F7 tube through three different resistors; all should be perfect.

Hum in Majestic 70

How can I correct a bad hum in my Majestic 70 receiver? Most of this trouble seems to appear between 550 and 750 kilocycles.

Hum of this kind, which is not heard over the entire limits of the dial, may be caused by some outside source. Tunable hum, as distinguished from constant hum, frequently exists in the short wave portion of an all-wave receiver, and not so often in the section indicated by you. The sources may be an old tube; improper plate, grid or filament voltages; poor shielding of tubes or coils; or incorrect alignment of certain circuits.

Leaking or defective condensers, a defect in the voltage divider, faulty tubes, an old rectifier tube, and one or more broken or open resistors, particularly to the grid of some tube or its cathode, can cause constant hum.

Failing in the above likely sources, try replacing the -27 detector with a type 56 tube. Perhaps a metal shield over the detector will stop the hum. Check the three filter condensers, particularly the first one, by

testing from the -80 tube filament to the ground. If a low resistance or short circuit is found, the condensers will need replacing.

Set Has Low Volume

I have a Majestic 290 long wave set with Majestic 10 adapter for short waves. This radio can only be operated on long waves late at night with very little volume. The volume knob works only to medium strength, and when trying to give it more volume it begins to diminish instead of getting louder.

Overloading of this set at high volume levels without distortion, such as occurs in your case when you turn the volume control all the way up, is unusual. This volume control is wholly within the audio system of the receiver. We believe the trouble can be attributed to poor characteristics of the silent tuner control tube. A trace of gas in this tube will also give the same effect. Gas in the first audio tube will cause overloading but usually will be accompanied by considerable distortion. This condition does not indicate any permanently defective part in the receiver, but some unit that becomes defective when a radio signal is applied to its own particular circuit. We trust you have not made the mistake of confusing the noise suppressor control for the volume control.

Exponential Horn

Please explain the construction and theory of the exponential horn. If I construct one will it give better results than my cone type of dynamic speaker?

The exponential horn was designed to reproduce with great volume all the movements of the diaphragm of the sound reproducing unit. But, unless the sound unit reproduces with good fidelity of tone, the speaker will not prove to be a source of true and life-like tones. The dynamic speaker, in this respect, is the best

reproducer of tones we have. The horn, however, because of its volume, is useful in public address systems.

This horn will radiate a wide range of sound-wave frequencies with nearly equal intensities throughout the audio limits. Such reproduction requires a gradually increasing taper to the horn, and this ratio is called the exponential rate. The cross-sectional area of the horn doubles with each unit of increase in length.

Suppose that the cross section of a horn at its throat is one square inch and the expansion of the horn is such that at one foot from the throat (where the reproducing unit is placed) the area increases to 2 square inches; at 3 feet the area increases to 4 square inches; at 4 feet the area of the mouth will be 8 square inches, and so on.

Because of this gradual increase the exponential horn is not less than 6 feet in length. The reproducing unit, which is quite similar to a telephone receiver, is attached to a fairly small throat so as to enable the diaphragm to displace the air and get a better "grip" on the column of air within the horn. A large mouth is essential to eliminate resonance and distortion. A round cross section gives maximum volume with the minimum of enclosing surface. The square horn is satisfactory and much easier to construct.

"C" Battery

What is a "C" battery? Is it true that any battery can be used as a "C" battery?

The "C" battery, so called to distinguish it from the low-voltage "A" or filament lighting battery and the high-voltage plate charging "B" battery, is used to give a negative electric potential or charge to the control-grids of radio tubes. Any battery will act as a "C" battery provided it is connected properly into the circuit. The negative, or zinc, terminal at the side, is attached to the grid

circuit of the receiver. The positive or center carbon terminal is attached to the ground or negative terminal of the "B" battery. You can get -45 volts from the negative end of a 45-volt "B" battery; a run-down battery of this type can be used for a long time as a "C" battery. Two dry cells or flash-light cells, each of which gives $1\frac{1}{2}$ volts, in series will provide -3 volts "C" current.

An Open Grid

Why is it that my set is dead except when I touch the grid cap of one of the -24 tubes? Signals then come in and the set continues to play as long as I maintain the touch to the cap.

The fact that the set operates when you touch the control-grid of a -24 tube indicates trouble somewhere between that tube and where the radio signal comes in from the antenna. The tubes most likely are the first and second radio-frequency stages. Try touching the antenna lead-in to the top caps of all three -24 tubes, and if the set works at all these points look for the trouble in the antenna coupling coil. A break in the wire leading to the following tube top-cap is indicated. Otherwise, a break in a grid-cap circuit of one of the secondaries of one of the radio-frequency transformer coils is causing the trouble.

An Open Grid

When the aerial wire is attached to the antenna post of my Sonora D 50 set the signals become very weak. But when I touch the tuning condenser the signals are about normal. What is the cause of this trouble?

When you touch the antenna wire to the tuning condenser you attach the wire direct to the control-grid of one of the tubes. From your description we cannot determine just which tube this is, but it is either the r.f. or first detector. This effect indicates that there is a break in the grid circuit between the antenna



The cameraman, roving backstage, caught the world favorite coloratura soprano, Lily Pons, and maestro Andre Kostelanetz in a tete-a-tete. You may hear Miss Pons' wonderful voice on Wednesday from 9:00 to 9:30 p. m. EST over your favorite Columbia station.

post and one of the following tubes. Look carefully for loose or open connections, or a break in the wire of the antenna or r.f. coil.

More Voltage Wanted

How can I change the transformer in my Fansteel-Balkite "BW" eliminator so as to get 180 volts instead of the 45 and 90 volts this "B" device now gives?

It is impracticable to use a new transformer in this eliminator so as to give a higher voltage at the output. The present device is designed to give 45 and 90 volts. If the transformer is replaced it means the output will therefore be doubled. Doing this will require a new filter system, condensers, chokes, and resistors in order to handle the increased voltage. The resistances in the voltage divider would have to be changed, and a new calculation of values would be necessary. The rectifier unit, in order to handle the greater potentials from the trans-

former, would also require alterations in sizes and values.

Rebuilding Old Set

I would like to rebuild my Fada 5-tube receiver so as to use battery tubes of the newer types. What shall I do?

As you have not specified the model of your set we assume it to be one of the old 192-A 5-tube battery receivers using 01A types. These tubes can be replaced with 30s. A 2-volt battery, such as the Aircell type, is required. The "B" and "C" batteries may remain the same.

Transformer Gets Hot

My Majestic Special Master "B" eliminator gets hot and the compound runs out. I have replaced the condenser block. What can be wrong?

We do not understand whether the black compound in the transformer or condenser-block runs out. If there is some sort of short circuit in the secondary of the transformer the over-load will heat the transformer and cause its compound to run. It is possible the trouble is in the new condenser block. A defective condenser will short the output of the transformer and prevent the eliminator from working. This, too, might cause some heating in the condenser block. If you replace the transformer you must get the special transformer for this unit.

Short circuits in the winding of the primary may also cause heating. This can be determined by disconnecting the transformer from the eliminator and then connecting it to a 110-volt source without any load on its output. If it overheats it is defective.

That Voice Coil

Will you please explain to me how to locate the voice coil in the speaker of my Philco 20 receiver?

The voice coil is wound on a collar which is part of the point or apex end of the rear of the parch-

ment cone of your loud speaker. It is directly behind the center of the cone, when looking at the front, and is a part of the cone. Two fine, flexible wires connect the voice coil on the cone to the output of the power audio transformer.

Doublet Antenna Coil

The maker of my Scott all-wave receiver has installed a special antenna coil so a Lynch doublet antenna can be used. But now the set does not work well and has a grinding noise. Touching the tubes, however, causes a strong pickup of signals. Is this a proper antenna to use with the Scott receiver?

It is our understanding that the Scott people are recommending the Lynch antenna exclusively for their receivers. Therefore, the antenna used by you should be a proper one. We do not think the trouble is in the antenna.

It is indicated fairly definitely that the signal circuit to the grids of the r.f. 58 tube and the first-detector 57 tube is more or less incomplete. When you touch the grids of either of these tubes your body acts as a signal pickup antenna. There must be a break in the signal circuit from the antenna to the grids of one or more of these tubes. Obviously it is impossible for us to tell you just where this break has occurred, but your facts seem to hint that it may be in the grid circuit of the r.f. or first-detector tubes.

It seems also that a defective resistor, perhaps one of more or less questionable character, such as a carbon type having a high value, may be at fault in the grid return circuit of the r.f. tubes used for a.v.c. purposes.

The new antenna coupling coil arrangement will not cause this trouble alone, and it seems quite likely that the makers installed it properly and thoroughly tested it before returning to you.

Club News of the I. D. A.

• • • Edited by JAMES T. SPALDING

HELLO IDA members! Through the kindness of RADEX, this is your page. Whatever success it may enjoy will be due to you. So make it what you will. We want to hear from all IDA members. What you hear, when and how, and what you hear it on. This page is open to all IDA members, whether you live in Peoria, Ill., or Auckland, N. Z., so send in your reports. We want especially to hear from foreign members. Send your reports to James Spalding, 2012 Alexander Ave., Louisville, Ky., U. S. A.

* * *

Listen for these IDA programs: XGOD, Hangchow, China, on March 15 and 16, from 10:30 to 12:30 G.M.T. This program arranged by Bill Ellis of Hughson, Calif. Send reports to Mr. E. Pon, Eng. XGOD, Telephone Administration, Chekiang Prov. Govt., Hangchow, China.

2UE, Sydney, Australia, 1025 kcs., will DX each Saturday in March from 5:30 to 6:30 a.m. EST.

* * *

The IDA contest is now in full swing. First prize, the Randolph Trophy, will be from 36 to 48 inches in height. Specially designed, silver columns will support a large Golden Globe which will be surmounted by a figure of Victory. The Trophy, donated by Mr. Randolph Hunt, will be composed of silver, gold and copper. Sun gold cups will be awarded as District prizes.

This contest closes August 31, 1935. It is not too late to enter. All IDA members are eligible. A sample copy of the magazine, The Globe Circler, and requirements for membership will be sent free to all DX-ers applying to the above address or to the President, C. A. Morrison, 1018 N. Prairie St., Bloomington, Ill.

From the British Globe Circler, edited by C. K. McConnan, we learn that W3XAL, PPU, W8XK, W2XE, VK3LR, PRF5 and CT1GO are being heard very well in England. On b.c.b., or, as they have it "medium waves" WABC, WENR, KDKA, KMOX, KSOO, XENT and LR5 are being heard. Latest reports show that R. T. Coales of Southsea, England, is leading the European members in the IDA contest with 18 veries for a total of 975 contest points. Two local chapters are located in England—one in London and one in Manchester. There are some hundred IDA members in various parts of Europe. Information about the European section may be



Deems Taylor, distinguished American composer and critic, is the narrator of the Chase & Sanborn Opera Guild broadcasts on the NBC Red Sundays at 8 p. m. EST. Taylor composed "The King's Henchman" and "Peter Ibbetson" which were enthusiastically received by the musical world. As a critic he has devoted much of his writing to popularizing classical music.

had from Mr. Frank Crowder, 12 Belle Vue Place, Leeds 3, England.

* * *

How many are hearing these new stations? HAS, Budapest, Sunday 8:00 to 9:00 a.m. HAT, Budapest, 5400 kcs., 8:00 to 9:00 p.m. CT1GO, Parede, Portugal, 6200 kcs., on Wed., Fri. and Sun., testing irregularly from 7:00 to 11:00 p.m. This data comes from Capt. Hall and other IDA members. Capt. Hall also reports Radio Suva, Fiji Islands, on 22.94 meters.

John Shanks reports HP5B on 6030 kcs. The writer heard them very well on their IDA special on Jan. 26. This station is located in Panama City, Panama. John also reports HJ4ABM, Manizales, Col., 49.15 meters, 5:00 to 6:00 p.m. CST, and the European B. C. stations, Frankfurt, 1195 kcs., and Toulouse, 913 kcs., at 3:45 p.m. CST.

* * *

Not a few DXers have been puzzled by those Army Airport stations which certainly use queer calls. Some used are VK1, RF3, 1S3, F67 and WO9. They are heard mornings, with good signals, on about 6300 kcs. We are told that some of them verify.

* * *

Capt. Hall has invented a new DX idea. He adds up the mileage of his DXing for the day. One day Skipper totaled 120,000 miles of reception. We tried it and on the first try managed to reach 109,000 miles in 11½ hours. Try it.

* * *

For DXers who want to send self-addressed envelopes for veries instead of reply coupons, we refer them to R. Schofield, 300 Evans St., Missoula, Montana. Prices will be gladly sent any DXer writing to Mr. Schofield.

* * *

How many DXers are stamp collectors? More than one would think. For these philatelist DXers who want to exchange duplicates with each

other, the writer is conducting a stamp exchange. Send your duplicates to us and we'll try to get others that you want. There is no charge for this service but return postage is requested.

* * *

With this we sign off until next month. Be sure and write us. So here's wishing all DXers "vy 73."

A Radex Special

STATION CRCS, Chicoutimi, Quebec, on 950 kc. with 100 watts, has very kindly offered to give a special DX program for RADEX readers on Sunday morning, March 3rd, from 2 to 3 EST. The program will consist of recordings interspersed with station calls, location, frequency, etc. CRCS uses a Canadian Marconi transmitter with Class "B" output, modulated to a depth of 100 per cent. The transmitter is located on the top of a hill about 300 feet above sea level and about two-thirds of a mile from the River Saguenay. Two 80-foot masts support an inverted "L" type antenna.

All reports will be verified provided they are accompanied by the necessary return postage. Do not send U. S. stamps. If you do not have Canadian stamps, send three pennies.

This magazine is co-operating to bring the greatest possible number of reports on this small-power station. A year's subscription to RADEX will be awarded to the most distant listener in Canada with a similar award to the most distant in the U. S. The five next farthest will each receive a copy of the current RADEX while the next five will receive a copy of the current *DX Log of the World*.

For the best report submitted based on neatness, completeness of report, data valuable to the station, etc., we will give a copy of the new book "The Beginner's Story of Radio."

Our Readers Report

the Stations Received

SOONER or later, dear readers, you are going to tune in a foreign station on that set of yours. When that thrill comes you will want to be ready to identify it or half the pleasure will be lost. Just notice from the reports of our readers this month how very many of them are picking up foreign stations. Europeans are being picked up quite regularly away up in Saskatchewan and over-the-Pacific stations are logged as far east as Nova Scotia. So equip yourselves now with a complete list of the foreign stations.

The total number of the foreign stations on the broadcast band is almost as great as the number in North America. We have found it quite impossible to provide space in this magazine to cover these foreign stations properly. We have therefore brought out the *DX Log of the World* in which *all* the stations of the world are listed three ways just as the North Americans are in RADEX.

Likewise we have found it impossible to publish in these pages the complete list of the phone stations on short waves. We are now including these stations in the *DX Log* and they are similarly listed three ways. This makes the *DX Log* the most nearly complete and quite the most convenient and up-to-date publication of its kind in the world. The February-March-April issue is now on the news stands. It may be readily recognized by its alternate black and white diagonal stripes. The price is only ten cents the copy for this really amazing encyclopedia of broadcasting stations.

"You Ain't Heard Nothing Yet"

"I get a kick out of the complaints of readers who live in small cities and villages in regard to being both-

ered by noise," exclaims A. J. Umlauf, 623 Manida St., Bronx, N. Y. "Well, my friend, how would you like to live in a city like New York and have all sorts of electrical appliances, trolleys, subways, buses, automobiles and what-have-you going full blast 24 hours a day? In spite of all this, I have verified stations in 45 states and need only Wyoming, Nevada and New Mexico to complete my roster. I have verified about 300 stations of which 200 are in the Central, Mountain and Pacific sections with a power of from 100 watts to 5000. I have verifications out to PP, LR5, Normandie and Frankfort. On the s. w. I have heard most every-



Broadway's youngest producer, Ted Hammerstein is the grandson of the famous impresario, Oscar Hammerstein. He recreates for radio the atmosphere of the Old Victoria Music Hall, presenting old and new stars of variety on his "Music Hall" program. Sundays from 2:30 to 3:00 p. m. EST. On the Columbia.

thing any DXer has and I think I have a singleton in HAS-3, Budapest, Hungary, on-19.51 meters. It operates on Sundays from 8 to 9 a. m. EST. I am using a new Scott 15 and, boy, show me a set that can beat it. I have tried any number and types of antennas but find the old flat-top the most efficient. I would like to see more reports from New York City. Would like to hear from users of the new Scott and will answer all letters."

"It's a Darn Shame"

"I added up my log yesterday and find to my great pleasure that I have a total of 638 stations," reviews Warren E. Winkley, P. O. Box 12, Hughson, Calif. "I have 431 in the U.S., 34 in Caanda, 32 in Mexico, 36 in Japan, 19 in Australia, 7 in China, 6 in Cuba, 2 in Alaska, 2 in Hawaii, 4 in New Zealand, one each in Germany, French Indo-China, Guate-



Peg La Centra, diminutive contralto, who is featured with Harry Reser and his Spearmint crew over the WEA F net, Sundays at 4:30 p. m. EST. Miss Peg is blue-eyed, weighs 93 pounds and has a deep-throated contralto voice. She was an announceress over a Boston station while still in school.

mala, Puerto Rico, Philippines, Manchukuo, 4 in Argentina. To date I have 190 verifications. KTM, KGFJ, KGDM, KJBS, KFAC and KMTR stay on all night every night. It is a darn shame! XGOA can be heard here as early as 12:34 a. m. PST. KGBU comes through with good signal strength after 1:02 a. m. PST. KGU comes in well any time after 10:15 p. m. but loses out to JOBK-1 along about 1:55 a. m.

"Radio station 'Hsinking' is the station on 560. They are owned jointly by Japan and Manchukuo. They relay JOAK-1 chain and sometimes XGOA. They can be heard best from 2 a. m. until 4:15 a. m. and from 5:30 to 6:15 a. m. Who is the English-accented station on 705? Who is the Chinese on 860 along about 5:30 a. m.? Who is the station on 563, heard irregularly? Randolph Hunt heard and reported an hour's program from HSP1 in Bangkok, Siam!"

Uses a Wave Trap

"We are in a tough spot here in Kansas City with a poor set for distance and selectivity," laments M. F. Meade, 819 Wyandotte St. "We have street car lines on four sides and are surrounded by tall buildings and manufacturing concerns using large motors. The set is a four-tube Philco 53 of 1932, I think. We were using 180 feet of aerial in a right angle with an iron rod driven into the earth for a ground. This aerial we are now using with a home-made, one-tube regenerative s. w. set. We have constructed a new aerial for the b. c. set V-shaped, about 100 feet long, stranded copper wire. This is about four feet above a flat roof. Aerial is well insulated with a rubber-covered, well-insulated leadin. A wave trap and phones are used as these give better reception. With this outfit we have logged 235 U.S., 6 Canadian, 10 Mexican and one Cuban stations on the b. c. b. and 500

on the s. w. including stations from Germany, Brazil, Peru, Colombia and a host of Mexican, Central American, Cuban and Canadian stations." Mr. Meade, being in the printing business, has prepared his own printed reports for verification.

European Tips

"From my experience and that of a DXing friend, I have the following tips on Europeans: Berlin, 841, comes on at 1 a. m. EST, Breslau, 950, at 1:15 a. m., Hamburg, 904, at 1:15 a. m., Poste Parisien, 959, at 2:10 a. m., and Radio Normandie, 1456, at 2:30 a. m." This info comes from Stephen J. Flynn, 517 Beach 133 St., Belle Harbor, L. I., New York. "I have just completed my first year of beb and six months of sw. I use a Philco 66B. On the b.c. I have 175 with PP, Radio Normandie, Cardiff, 6 Cubans, 8 Mexicans and many other good catches. On the s. w. I have 183 including VK2ME-3ME, 3LR, VLK, ZLT, KKH, CT1AA, H11A, H1H, KNRA, PPQ, OA4AD and HP5B. John L. West mentioned a Canadian on 6005. This is VE9GM. I would appreciate tips on KGU, KZRM, the JO's and XGOA and the Aussies. Would like to hear from correspondents anywhere and promise to answer their letters as promptly as possible."

Raymond M. Bell, 616 S. Allen St., State College, Pa., who is specializing in the long-wave stations reports: "Since December 15, I have heard Radio-Paris, 182 kc., and Droitwich, 200, several times. The best reception from Paris was December 26, 1:45 to 2:30 a. m. EST at R8. Droitwich was R8 December 27, 6:45 to 7:00 p. m. EST. I used a tentube Lafayette. On December 26, I had PP on 959 R8 from 2:10 to 2:30 a. m. EST. I suppose you have had some reports of the unusual reception of SA's the last three days of December and January 1. I heard three stations announce—LR5 was R8 from 9:10 to 10:10 p. m. EST.



A short time ago Gabrielle de Lys was a law student in the University of Southern California. Now she is one of the featured stars on the Carefree Carnival, that happy-go-lucky bunch of West Coast entertainers. Listen to them on the Blue chain of the NBC at 8:30 p. m. EST.

At ten o'clock a large clock chimed twelve for the New Year. LRC was R7 from 7:57 to 8:27 p. m. LS2 was R5 from 7:15 to 7:45 p. m. Several other BA stations were weaker. This is the first time I ever heard them."

He's Going Places

J. R. Maloney, Ora Mill, Shelby, N. C., has logged every state in the U. S., as well as the following countries: Australia New Zealand, Portugal, France, Germany, Columbia, Uruguay, Dominica, Venezuela, Japan, Guatemala, Italy and Czechoslovakia. "The last-named is the hardest to get because KFI is on the air until 3 o'clock EST except Sunday when they leave the air at 2 o'clock and I think this is the only time OKP can be heard because at 3 o'clock here it is 8 o'clock there and their signals would be too weak.

Italy and France can be heard around 2 o'clock. The French stations best heard are on 940 and 1456 kcs." (PP is on 959; we do not know of any French station on 940. Ed.) "I would like to correspond with DXers using the Majestic 11-tube and all letters will be answered," adds Mr. Maloney.

In the Middle of the Pacific

"Here in the Hawaiian Islands, our closest stations aside from the two locals, are more than two thousand miles away," observes John W. Cooper, U. S. Fleet Air Base, Pearl Harbor, T. H. "Yet no one thinks anything of picking up b. c. stations on the Pacific coast or even those in the MST zone. The only time we really get excited is when we pick up some 500-watter in the Central or Eastern zones. One of my friends, using a four-tube Elray, logs the East Coast consistently. Using an RCA 141 since September, 1933, I have logged 215 stations on the mainland and in foreign countries which includes England, France, Germany, USSR, Japan, China, Australia, Philippines, Suva, Java, India and, of course, Canada and Mexico. I have but three or four SA stations; for some reason they just don't seem to come through very well."

From Westport, Nova Scotia, E. L. Peters (Box 65) sends us a copy of the IDA Eighth District Bulletin which he edits. He also edits weekly DX columns in two Halifax dailies, the "Chronicle" and the "Star." My log has grown to approximately 850, all separate transmitters and changes in calls not counted. Last season I won the Elgin watch offered by a NNRC member for the ten best verifications from October to April. My entries were: Hamburg (1500 watts), Lwow (only report ever received from Canada), Praha No. 1, Radio—Algiers, Turin, KGU, 2YA, 2BL, LR5 and KFPM. Have also verified 2SM and 3YA and many other foreigners. Have about 25 re-

ports out now, chiefly to low-powered TA's including Nurnberg, San Sebastian, Bratislava, Moravska, Valencia, EAJ-15, Juan-les-Pins and others."

Manila from Nova Scotia

"I have had fair success on the b. c. b.," remarks Douglas F. Mason, 53 Atlantic Ave., Halifax, Nova Scotia. "Among those heard were Budapest, Munich, Leipzig, EAJ1, Poznan, LR, Hamburg, Toulouse, PP, Hilversum, Koenigsburg, Radio Bari, Juan Les Pins, Radio Normandie, Algiers, LR3-4-5, LT1, CP4, PRAA, HJN, OAX, YV1RC, KGU and KZRM. Also succeeded in logging my first Aussie, 3LO in Melbourne. It was very weak but perfectly intelligible. Now that I've heard one, I'm quite sure more will follow. (Picking up KZRM in Nova Scotia is something to brag about Ed.) "On the s. w. I have



She is known just as "Maxine" and is the featured soloist of the "Hour of Charm," the all-girl program directed by Phil Spitalny. Spitalny heard the deep-throated voice of Maxine in an amateur show and recognized her possibilities. On the CBS each Thursday from 8:00 to 8:30 p. m. EST.

heard nearly all the powerful U. S. and Canadian stations and the following foreigners: HJ2ABD-3ABI-4ABB-4ABE, VK2ME-3ME, COC, HBL, IRM, EAQ, DJC-D-N, XETE, XEBT, YV5BMO, YV3RC, FYA-B, GSA-B-C-D-E, LSX and RNE."

"I have been DXing for a little more than four months and in that time, I have logged 387 stations in six countries with 65 verified," sums up John Kofron, Jr., 3171 Euclid Heights Blvd., Cleveland Heights, Ohio. "Although there were but two really good nights during last month's frequency checks, I managed to add 70 new ones. On January 3, there was no static at all and those 100-watters in the south were rolling in R7-8. My best so far are CKWX, KFPM, KWYO, KTRB, CKJP, LR5, TGW, XEWZ, XEFZ, KDB, CX-26. My receiver is a RCA-Victor 120, six tubes. Would like to hear from users of the same model and would especially like to correspond with Alaska, Australia, New Zealand and our western coast."

Learning Code

"Last winter using a 6-tube Fada, I logged 283 stations with a total mileage of 425,563 miles," computes R. A. Butts, 307 S. Pearl St., Ellensburg, Wash. "My father, S. A. Butts, who passed away last September at 68 years of age, helped me log last winter's list. He would tune in the early mornings while I logged from 6 p. m. to midnight. He surely enjoyed RADEX and spent many hours DXing with it by his side. This winter I have a log of 260 stations with a mileage of 378,807 and hope to log 300 by April. I have a log of 485 stations from 1924 to 1934 with a total mileage of 793,102. I am studying s. w. radio and learning the code and hope to be on the air with a phone xmitter in two years."

"I have a Kennedy 61-LS and wonder if you could put me in touch with a DXer using the same kind of a set," queries Don H. Studebaker, 125 Northwood Blvd., Ft. Wayne,



Harry Reser, Commander-in-Chief of the Spearmint Crew may be heard in a fifteen-minute program of popular music each Sunday afternoon at 4:30 EST over the WEAFL key of the NBC. Equally noted for his banjo solos and his direction of modern dance music, Harry Reser was a continuous performer over NBC nets for eight years.

Ind. "I have a fair log of 302 stations on the b. c. b. Have received fine verifications from the high-fidelity stations especially W6XAI, Bakersfield, Calif. They just simply roll in here. I have logged all the states except Wyoming; is it possible to get them during the regular run of programs in the evening? My best Veri came from KF XM, San Bernardino. One Sunday morning I was fooling around the radio and picked them up and from then on, my only love was the radio."

Amateur from South Africa

Howard R. Garrett, 171 Hilldale Ave., Toronto, Ont., has added up his log and finds that he has a total of 1774 stations on the b. c. b. and s. w. "On the b. c. I have every state and province, Venezuela, Australia, Argentina, Brazil, France, New Zealand, Guatemala, Hawaii, Salvador, Puerto

Rico and Germany. On the s. w. my best are VBS, FXC, RKB, EAH, EAV, GIK, DGG, OEK, PDS, OKH, ORX, OXL, OXR, VVM, CUY, JNH, JAH, SUR, HAS2, HAT2, PZA, JHM, PLC, and-CEA. My best foreign amateur is ZSIC in Capetown. I've heard ships from 8 countries. Will correspond with anyone, anywhere, anytime. All b. c. work was done on my Victor R-35 neutrodyne."

"To date my log consists of 435 b. c. stations received on a Radiola 20," submits R. N. Maxwell, Jr., 4815 Ward St., Cincinnati, Ohio. "Although this is an old battery receiver, it is very sensitive and unusually selective. I have 25 in California and all the states except Wyoming and Nevada. Some of my best are 4RK, 4QG, 2BL, KGU, KGFJ, XEFZ, CKOV, KGDM, KFVD, KXA, KWJJ, KFSG, KMTR, KMJ, CMCW, VE9EK, 10-BP, TGW and WKAQ. Those Cubans and Mexicans sure do have fine entertainment but it gives a guy a headache chasing them all over the E. C. B. Would like to hear from any DXer in or near Ohio who uses a Radiola 20."

"It's Swell Fun"

"I have been DXing all morning and all I caught was a loss of six hours' sleep," bemoans Bruce P. Lundy, Jr., R. D. 1, Box 121, Jersey Shore, Pa. "It was one of those fine mornings when I got hooked but that is one of the reasons I always come back for more. I cannot think of any indoor sport I like better than DXing. I believe I can help out John L. West on the station heard in back of WHO on 1000 playing organ music. Believe it or not, it was KFVD, Los Angeles as I, too, have heard it. Can't something be done about these stations that come on testing and won't give any call letters? Some of them I've heard for over a half an hour and all I get is music or talking or signal whistle or just the hum but no call letters. They ought to give a guy a break once in a while. You listen real earnestly for one you just know

you haven't got and after half an hour or so of waiting, you find it is somebody you already have. Oh, well, it's swell fun anyway."

"Where have the TP's gone to during the past month or so?" seeks Charles Meyer, Jr., 411 Blake St., St. Joseph, Mo. "Along in November I could receive about 15 J's and VK's during the early morning hours and now I can just barely hear 4QG who used to come in at R7-8 volume nearly every morning. However I have been hearing what I think is an Aussie on 1150. I heard them broadcasting a play in English on the morning of January 2. For the benefit of John L. West, I believe the station he had on 1150 was XEWZ as they came in here very strong the other night and signed off about 1:15 a. m. CST."

A Three-Quarter Harmonic

"I receive WOKO, 1430, on about 1072," writes Geo. B. Holland, Jr., 1059 Parkwood Blvd., Schenectady N. Y. "This would be just three-fourths of its frequency or a three-quarter harmonic." Mr. Dashiell tells us these freak frequencies are not harmonics of the station but of the intermediate frequency of the set. In this case, 1430 minus 1072 is 358. Is this the i. f. of this set? "I have approximately 350 stations verified," George goes on, "with my best being JOIK, 4QG, 2GB, YV1RC, LR5 KGFJ, KWG KERN, XEFB, CKWX and the old 10-AB. Luckily I landed KLCN the other morning after trying for a couple of years. Have also logged two of the Mexican Pacific Ccasters, XEBC and XEMO."

"This summer I visited Mexico City and while there I went up to XEB, XEW and XEN. Mr. Enrique Guerrero of XEB welcomed me cordially and the chief engineer of XEB took me over to XEW. XEW has the most modern and beautiful studios in Mexico." This note comes from Samuel A. Meyer, Jr., 83 Canterbury Road, Rochester, N. Y., who says further: "My log on the b. c. b. has



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increased to 502 with 367 verified. I consider CFCT, 75 watts Victoria, B. C., my best verie. I have heard LS2, PP and XEAF several times. I use a 9-tube GE with a Pilot converter."

"Yes, it is no Verie"

Ralph B. Baldwin, 1017 Oakland Ave., Ann Arbor, Mich., is puzzled (and no wonder) to know whether this is a verie or not: "Dear Radio Fan: We thank you very much for your nice report of December 13, in which you tell us you heard our transmission of December 8 on 1150 kcs. with 100 watts. Broadcasting Station XEWZ." Ralph uses a Colonial 650, 5-tube, all-wave, with a double-doublet aerial. Since the middle of August he has logged 330 b. c. b. stations and s. w. stations in fifteen foreign countries. He needs Wyoming, Idaho, New Hampshire and Delaware to complete his roster.

"My total log on both bands is now about 900," says a SWL card from George W. Banks, 105 South Main St., North Brookfield, Mass. "I have 400 on the b. c. b. and 150 s. w. My latest and best catches are JOAK-1, TGW, LS2, LR3, LR4, LR5, PP, Bordeaux, Toulouse, Hilversum, SBB, Rennes, Scottish and Wales Regionals. I use a Bosch 6-tube superhet with a Pilot 4-tube Superwasp converter. Have now heard stations in 38 countries on six continents, all 48 states and the D. C."

"I have joined the CDXR and the IDA, two of the best DX clubs in the world," declares Richard W. Fales, Intervale Ave., Roslyn Estates, N. Y. "I think every DXer should join at least one as they are certainly worth the dollar or so for dues. My log now stands at 142 with my best being CMBX, CMCW, CMOX, KPO, KFI, KNX, WSYB, WNRA, WPAX, XEPN, XEAW and W9XBY. I certainly am satisfied with my RCA-Victor five-tuber. Both KOA and KSL roar in nightly with a signal that is usually R6-7/QSA5. I have just started verifying and have about 20 reports out."

"All-Night Nuisances"

"I started all over again on August 24th, 1934," submits A. G. Schleiter, Box 91, Freedom, Pa. "In these five months I have received 587 stations. On the frequency tests each month, I received all except 22, ten of which were in Washington and Oregon. There ought to be something done about the all-night nuisances while these tests are going on. This morning, January 20, I was unable to get even one of the Canadian frequency tests. The Canadians should change their frequencies to a later hour in the morning. I am trying hard to make my log 600 by February 1."

"I heard PP on January 12 from 2:15 to 3:00 EST," reports Merrit Wilcox, R. R. 1, Glanworth, Ontario. "I have heard their signals faintly nearly every morning but on the 12th, they came in with loud speaker

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volume. My best are XEFV, XEFZ, KGIW, KGDM, KJBS and KIDW. On January 1, I heard a station on 845 to 850 from 5:10 to 5:30 a. m. At first they seemed to be playing dance numbers but toward 5:30 the announcer seemed to be giving out something. What could this have been? My radio is a 1924 Rogers with seven tubes. I would like to correspond with DX fans anywhere and will answer all letters."

"Have an ideal location for radio reception," declares Lyle Stanard, 817 King St., Three Rivers, Mich. "The only electrified thing within half a mile of my home is the power lines leading up to the house. I never really got many stations until I purchased my Scott All-Wave 15. I would advise DXers to try the Scott before buying a receiver. Would like to hear from other Scott owners." Lyle sends his log of s. w. stations which pretty nearly covers our 100 Best.

Short Only Fifty

"Looking over my records since Christmas of 1931, my outstanding catches have been: 10-AT, KFPM, WHBC, VE9EK, CMCU, CFCT, 2BL, 2YA, YV1RC, LR5, TGW, WNEL, WKAQ," recapitulates Stuart R. Garnett, 4131 Wolf Road, Western Springs, Ill. "I now lack about 50 stations to make my log of the US complete. During the past year I raised my total to 696 with 629 verified. It wasn't until last fall that I had the thrill of picking up the TP stations all over the dial."

From Frank W. Hoxie, Box 15, South Orrington, Me.: "I have been hearing PP and Toulouse with almost unbelievable volume nearly every day. PP does not sign off until 6:15 or 6:30 p. m. EST except on rare occasions. Toulouse quite often rings a series of gongs between selections and will announce occasionally saying 'Hallo, hallo, ici Radio Toulouse.'" I also logged Hamburg, 904, with very strong volume soon after 4 p. m.

one day recently. My log is now 631 with 161 verified."

"I followed the DX Calendar today and, from 3:00 until 6:00 a. m., I tuned in 31 of the 34 stations listed, 25 of which I had not logged before," remarks Clarence L. Dodge, South Lancaster, Mass. "Thus far this winter I have logged 334 b. c. stations. Some of my best are CHWC, CMBX, XEFG, KERN, KOTN, KPJM and KWYO. I have had ten 100-waters in Texas. I am using a five-tube John Wanamaker superheterodyne, Model 55. Would like to hear from anyone else using this set."

TA and TP in Illinois

From Hilding Gustafson, 2228 6th St., Rockford, Ill.: "My log has now increased to 652 all of which are now active. My latest catches are 2HD, 2UW, 4TO, 3DB, Stuttgart, Cologne, PP, Frankfurt, Hamburg, Fecamp, VE9EK, VONF and YV1RC. I use a Crosley Showbox 8 tube. For those who want a TA, I advise PP when they come on the air at 1:10 a. m. CST and Cologne, 658, after WMAQ signs off at 1:00 a. m. CST. Both of these have excellent volume at times. The station readers are hearing back of WBZ is XEAF. They also broadcast after WBZ has left the air."

"During the present DX season, I experienced my greatest success in logging distant stations," observes Robert W. Botzum, 633 Moss St., Reading, Pa. "Among them are 2YA, 2UE, CX6-26, LS2, LR8, HJN, CP4, HIX, TGW, WNEL, PP, SBH, Leipzig, LR, IIRO, VONF, VE9EK, KFPM and KJBS, I am still using my five-year-old AK 8-tube t. r. f. set. Am using an umbrella aerial with a 40 foot pole on the roof with four wires about 50 feet long running in different directions. My log has now passed the 600 mark with 435 verified."

"When I tuned in WFBL of Syracuse this morning, Jan. 12, at 4:15 a. m. PST, I recorded it in my log book as the 100th station that I have

received on the b. c. b. over 2000 miles away," affirms Raymond C. Corbett, 619 12th St., Sacramento, Calif. "This is not bad for far Western reception. Between six and ten o'clock, p. m. I listen to the following stations every night: WGN, WSB, WJR, WJZ, WBBM, WFAA, WBAP, WWL, XEAW, KDKA, WBS, KYW, WTAM and a score of others."

From the upper, righthand corner of the U. S., comes this report by Elliot T. Kimball, 57 South Chestnut St., Augusta, Maine. "In three years I have acquired 581 verifications all on the b. c. band. My best include 32 Californians, KFXJ, KRMD, KGCX, KFPM, KTSM, KWYO, CJCJ, CHAB, VOAS, XEU, TGW, JHN, YV1BC, PP, Radio Normandie—all verified and letters out to Bordeaux, Rennes, Cologne, Frankfurt, Munich, Hamburg, Berlin, Breslau, LR5, EAJ7 and Scottish Regional. Would like to hear from others having 500 or more b. c. verifications."

"I am the proud owner of a Philco 16X," avers John Holub, 1419 South Clarence Ave., Berwyn, Ill. "In three months I have logged 500 amateur stations from all districts of the US, from four districts in Canada, one in Cuba and one in Puerto Rico. I have logged only 83 b. c. stations but among these are TGW, and CMCD. On s. w. I have EAQ, DJB, GSD, RNE, RKI, VK3ME and VK3LR. I also logged KNRA, the 'Seth Parker.' hear from others having 500 or more of the Philco 16X."

Miss Margaret Hamilton, Coopersville, Mich., wants to know if there is a really good battery-operated set on the market—one which would be fully as good as any of the a. c. sets. She is troubled with so much man-made interference and with such fluctuations in the current that she has about decided to trade in her Atwater Kent for a battery set. Some of our readers who are getting really good results from battery sets, might advise Miss Hamilton.

Bringing in the Aussies

● ● ● By Guy B. Walsh*

UP UNTIL August 26, 1934, my log contained only six Aussies and two Zedders with five verified. Then I started hunting. I happened to get up at 5:15 a.m. EST on the above date and discovered a seemingly distant station on 1145. To my surprise it was 4BC. So I tried for old reliable 2BL and they were coming in weak. Then I took a list of Aussies and tried all waves with 1000-watters and over. I heard 2NC fairly well but no other broke through the light static.

Australia in August certainly amazed me. I resolved to spend all my efforts in that direction. Aug. 27 brought in 2BL and 4BC again with a new one, 2SM. Aug. 28 brought in all reliables with one new catch, 3DB. On the 31 I got 2UE and 2UW. I then experimented with aerials changing from 300 feet NW by SE to 50 feet NW by SE and 250 feet NE by SW—L-shaped—and in the next two days added 2CH. Then I added another 100 feet to the NE-SW end of the aerial and began to get results.

Sept. 7 sent in 2KY through KJBS; the 8th, 4RK; the 9th, 7UV; the 14th, 2HD; Oct. 2, (the best yet), 4TO; Oct. 4, 3AW came in fair; the 5th brought 2KO; the 6th, 3KZ. On Oct. 9, I heard a few carriers pulling through on waves on which 50-watters were located and by diligent dialing, I pulled in 3WR which was heard only three minutes including station identification. On the 9th I also heard 4RK and 3UZ.

Now, believe it or not, Oct. 12 brought in 4BO through WIGB with carriers from 3TR, 4RO and 3GL. With one more morning of activity, my luck left. On Oct. 15 I heard 5CL and 5CK. From then on only the big ones were heard. The big shot was easily 4BC. Twice I heard

him at QSA5, R6-8, and he never missed a morning in September or October.

During August and September reception was at a peak from 5:15 to 5:45 a.m. October 1 to 15 gave best results from 5:30 to 5:45. October 15 on gave best reception from 6:15 to 6:45.

You can see from the above the time and patience I gave to these stations. I tried one system which worked. When a "2" was coming in, I tried all the "2" stations; when a "3" came in I tried them all, etc. I will not claim positive and undeniable reception of all these stations but I heard sufficient to write to all of them. Sometimes I had to hold my dial on a wave for five to fifteen minutes before signal was heard. Fading was always present.

*114 Brown Street, Reynoldsville, Pa.

Which is Best Antenna?

(Continued from page 7)

antenna terminal, are connected to doublet antennas where two lead-in wires are used, there always arises doubt as to whether the set can properly be connected to such an antenna. There is only one satisfactory answer to be given to owners of these all-wave or short-wave receivers and converters.

An impedance-matching transformer or antenna coupler must be placed between the lower end of the transmission line and the receiver antenna and ground terminals. This will eliminate the difficulty that comes when one lead of the double transmission line, where it attaches to the ground terminal of the receiver, becomes directly grounded. In this way, also, the impedance of the antenna coil in the receiver and that of the antenna

transmission line can be matched or balanced—something quite essential for the efficient operation of the doublet antenna with any receiver.

List Of Antennas

For the further guidance of our readers, a list of antenna systems with names and addresses of manufacturers is given below.

"RCA Double-Doublet" All-Wave Antenna; RCA-Victor Co., Camden, N. J.

"Hi-Fi" Receiver Impedance-Matching Transformer or Coupler; "No-Stat" Broadcast-Band Antenna; "Duplex," "Simplex," "Marconi" and "Giant Killer" all-wave antenna systems; A. H. Lynch, 227 Fulton Street, New York, N. Y.

"Noiseless" All-Wave Antenna; "Taco" Noise Rejector or receiver impedance-matching coupler; Technical Appliance Co., 27 Jackson Avenue, Long Island City, N. Y.

"Tobe" All-Wave Antenna; Tobe Deutschmann Co., Canton, Mass.

"ICA" All-Wave Antenna; Insuline Corp. of America, 23 Park Place, New York, N. Y.

"Noise-Master" All-Wave Antenna; Cornish Wire Co., 30 Church Street, New York, N. Y.

"Birnback" All-Wave Antenna; Birnback Radio Co., 145 Hudson Street, New York, N. Y.

"A-K Type 'D'" All-Wave Antenna; Atwater-Kent Mfg. Co., 4700 Wissahickon Avenue, Philadelphia, Pa.

"Three Purpose" All-Wave Antenna; Philco Radio Corp., Tioga and C Streets, Philadelphia, Pa.

Lead-In Shielding and Antenna Material; Lenz Electric Co., 1751 No. Western Ave., Chicago, Ill. Belden Mfg. Co., 46 Van Buren St., Chicago, Ill. Cornish Wire Co., 30 Church St., New York, N. Y.

A Verification from Manchukuo

I HAVE just received a verification of which I am enclosing an exact copy, which I think should be a singleton," submits Chas. H. Hesterman, 2214 Herman Ave., Saskatoon, Sask. "I think that the word 'earliest' probably means 'first.' Enclosed with the verie was a fine collection of photographic views of the studio, transmitter, staff, operating room, sending room and central office. As you will notice, the verification takes the form of a personal letter—a thing I appreciate much more than the usual card.

"I also received last week, a verification from 2KO, Newcastle. On their verie they state they are operating with 200 watts only but expect to increase this to 500 watts by the end of December. Whether this is a singleton or not, I think it a good

Darien, JQAK.

Manchukwo, 15th Dec., 1934

Mr. Charles Hesterman,
2214 Herman Ave.,
Saskatchewan, Canada.
Gentlemen:

It is a very great pleasure for yours faithful letter for my station.

When you would catch on my station at 6.30 P. M. Chinese Time. Oct. 31. just it was sending Chinese man speaking and Time Bell.

And next to when my station sending at 8.50 to 9.50 P. M. on Manchukwo Time. The daily news.

P. S. I am very sorry that have not the verification card for your clever right report.

The please pardon me, the verification should be forgiveness with my reply letter.

I thank you that you are the very earliest fan of my station.

I sincerely thank you Canada Mans from North.

I am,
yours faithfully.

J. Migate.

one anyway as 200-watt Aussies are not so very common around here.

"Another verie that arrived last week gives me great pleasure, nothing less than Radio Normandie-Fecamp on 1456. I heard them December 1 and received their verie on January 3. I now have I1MI, Stuttgart, PP and Radio Normandie as my verified European catches on the b. c. b.

"So far as I can discover, these veries cannot be duplicated in western Canada. I would appreciate hearing from any other DXer who can equal these catches, residing as I do, over 1800 miles from the Atlantic. I quite fail to understand why the Europeans get into Saskatoon at any time as the 50,000-watt NY stations are rare visitors here. I venture to state that not more than ten people living in Saskatoon, receive any of the New York stations more than four or five times a year. Curiously enough, the mornings that the Europeans break through are poor mornings for eastern reception. For instance, the morning I heard Radio Normandie, only WGY was audible and that only R5, whereas Normandie came through for 17 minutes at R5 to R7 and for 8 minutes at R3. Thirteen days later, I heard them again but have not had time to get the second verification. Again on that occasion the NY stations failed to get here with the exception of WGY and again they were not better than R5-6. Radio reception is a funny thing."

The "Voice of Iceland," TFK of Reyjavik, was heard on their first broadcast by Frank D. Andrews, 436 N. Vermont Ave., Los Angeles. The signal was QSA 4 about R8. Mr. Andrews does not give the frequency but states he was tuning for Bolinas at the time.

Four Years for NERC

THE New England Radio Club will celebrate its fourth anniversary in February, 1934. The club was founded as a local organization under the name of Radio Listeners Club of Central New England. This name, however, became very inappropriate when the club began to spread out over the New England States and the much more efficient name of New England Radio Club was adopted. Although the organization has become national and even international in scope the name still clings as a remembrance of the pioneer days of membership.

The club now issues a mimeographed paper in colors every two weeks containing the most up-to-date DX information and has one of the most active Courtesy Program Committees in the country. The paper besides having many interesting feature items such as the "With The Members" column, is ably and humorously illustrated by cartoons cleverly drawn by our staff artist, Jimmy Lynch.

The dues are only one dollar (\$1.00) per year in any country of the globe and entitle you to receive the "DX News," our newspaper, for a period of one year from the date of joining. The DX News is published throughout the DX season, from September to May on a regular basis and irregularly during the summer.

At the present time the members of the New England Radio Club are privileged to take part in three DX Competitions—the award for the winner in each case being a membership in the NERC for an extra six months.

Besides these competitions, the club is sponsoring the NERC DX Championship Contest, a new and novel feature planned to assist in furnishing the stations with useful and informative reports as well as to entertain our members.

The winners of first and second position in the above contest will be award-

ed beautiful hand drawn certificates declaring their rank in the contest.

A sample copy of the DX News will be sent upon request to any interested DXer writing to the secretary at 135 Highland Street, Worcester, Mass.

Penny Wise and Pound Foolish

BILL ELLIS of Hughson, Calif., writes us that he has gone over the reports of reception received by KTRB as a result of their recent DX program. "The station has received 69 reports to date. Many were fine, telling the station just what every station wants to know—modulation, static, quality, fading, QRM, how their signal compared with those of other stations in the locality — but, and here is the sad part, there were many, many post-cards (and some were from well-known DXers, too) with no or very little report and asking for a verie. These cards, generally were of very few words, giving one announcement or one selection and asking for a verification. Such practices as the above are going to ruin DX. From the reaction of the management of KTRB, I can issue a warning to the readers of RADEX: Think twice before sending a card asking for a verification." We have had letters from so-called DXers bragging that they had so many verifications and that they had never sent postage to a station! This is chiseling of the worst sort. If one cannot afford to prepay the postage for his own verifications, he had better be content with just logging the stations and letting it go at that. Verification is simple courtesy on the part of the station. Do not try to take advantage of this courtesy or you are going to have it withdrawn and then even those who have always been honorable about sending return postage, will be punished too.

Time on the Air of Europeans

FROM K. Judd, 68 Mayfield Ave., Orpington, Kent, England, comes the following information relative to the times of some of the leading European stations: Radio Normandie until 2 a. m. EAJ-7, Madrid, Sundays, Tuesdays, Thursdays until 2 a. m. EAJ-8, San Sebastian, Mondays until 2 a.m. EAJ-1, Barcelona, Wednesdays and Saturdays until 1 a.m. EAJ-3, Valencia, Fridays until 1 a. m. Radio Vitoria, 1465 kc until 3:30 a. m. daily. Radio Toulouse, until 12:30 a.m. daily. Frankfurt, Cassel, Kaiserslautern, Trier and Freiberg, 1195 kcs.,

Stuttgart, 574, all daily until 1 a. m. Juan-les-Pins, Sundays until 1 a.m. Reykjavic, Iceland, on the long waves, 183 kc., Saturdays and Sundays until 1 a. m.

The stations which are on early are as follows: Berlin, 841, Breslau, 950, Frankfurt, Cassel, Kaiserslautern, Trier, Freiberg, all 1195, Koenigsberg, 1031, Danzig, 1303, Leipzig, 785, Dresden, 1285, Munich, 740, Augsburg and Nurnberg, 1267, Stuttgart, 574, Gleiwitz, 1231, Hamburg, 904, Bremen, Flensburg, Hanover, Stetten and Magdeberg, 1330, all Sundays from 5:35 a. m., weekdays from 6:00 a. m. RV1, 174 kc. from 5 a. m. Sundays OKP, 638, from 6 a. m. daily. All times given are GMT.

“Mr. and Mrs. is the Name”



Mark Hellinger, famous Broadway columnist, and Gladys Glad, his wife, are host and hostess on the Penthouse party. Hellinger's daily newspaper column is syndicated by scores of papers. His latest book, "The Ten Million," is a best seller.



Gladys Glad, former Ziegfield Follies show girl, is now the hostess of the Penthouse Party series which each Wednesday night entertains some distinguished guest artist. On the WJZ net of the NBC at 8:00 p. m. EST.

Boiled Down DX REPORTS

IT IS quite impossible for us to print in full all of the interesting letters we receive. We must pick out here and there the high spots which seem to interest the greatest number of readers. We do not have room even for all the DX reports although we try to give these space if at all possible. What fun is it doing anything if nobody knows about it?

"Am using an RCA-Victor 280, 12 tubes, b. c. band only and am enjoying wonderful reception out here on the plains," comments J. L. Shea, 1012 West 11th Ave., Amarillo, Texas. "During the past year I have logged some 400 stations. Have heard LR4 and several of the Japanese and Aussies but haven't written for a single verification being content to know that the station was properly identified."

"Have I heard the foreigners?", exults Clifford Drain, 617 Camden St., Parkersburg, West Va. "Here are a few to whom I have sent reports: Milan, Trieste and Turin, Italy; Berlin, Munich, Leipsig and Frankfurt, Germany; Poste Parisien, Rennes, 'Lafayette', Bordeaux and Radio Normandie, France; CT1GL, Parede, Portugal; CP4, HJN, CX26, LR5, LR6, YV1RC, TGW, HIH. Others are KGU, KGMB, WKAQ, VE9EK, 10BQ, 10BP and XEZ."

"In four months of DX, I have logged 223 stations in the U. S., Canada, Cuba, Mexico, Australia, South America and Japan," summarizes George Pilon, 10701 85th Ave., Edmonton, Alberta. "My best are 4QG, JOIK, JOHK, JOAK-1, LR5, CPX, CMQ, COX, KGU, KGBU, WJAX, CKAC, CKLW, CFCT, W1XBS and W9XBY. They are all verified except Japan and LR5 which haven't answered yet. I have a 1933 9-tube Majestic."

"On December 21, after KPO signed off, I received HJN R4 and held them for ten minutes," asserts Frank Wheeler, 406 Eagle Point, Lakeside, Erie, Pa. "I have just verified WHEB, KPRC and WELL. In 1932 I heard 190 stations, the best being 10-AB, YV1BC and WKAQ. In 1933, 182 and the best KREG, LR5 and HIX. In 1934, 154 with CFCT, WNEL, TGW and HJN. My all-time log is now 631."

"I have been DXing on and off since 1930 and to date have 616 verifications on the b. c. b., reports Clinton W. McGraw, 88 Pleasant Street, Ayer, Mass. "All of these stations were heard and verified at the same location in my home in Hamden, Conn. Among my best catches I find: KERN, KXO, KGFJ, KREG, KDB and the 50-watt KPPC in Pasadena. I have over 220 verified with 100 watts power or less. I also have seven 'SA's' but only 2 'TA's.'"

From Ed Olson, 36 Second St., Natick, Mass.: "Hurry the new *DX Log of the World* to me. I sure need it the way the TA's are coming in. Here is a list of them since December first: Hamburgh, Langenberg, Frankfurt, Heilsberg, Fecamp, PP Paris, Bordeaux, Lyons, Turin, Hilversum, Horby, Copenhagen and Madrid. My total is 582 b. c. stations. Europe is at its best about 2 a.m. EST and around 3 they have practically all faded away except PP and Fecamp."

From John Godwin, 14, Ivydale Road, Higher Tranmere, Birkenhead, Cheshire, England: "The American stations have been coming in fine. My log covers all the principal stations as far west as Chicago. My set is a Marconi Radiogram, 3 tubes, with a patent outdoor aerial equal to 53 feet joined to a 50-foot indoor

aerial. I am going to build a s. w. converter when I get home from a series of Mediterranean cruises."

From M. E. Smith, 259 Chester St., Painesville, Ohio: "On Jan. 8, I received LR5 and kept them for three-quarters of an hour from 2:30 to 3:15 a.m. This month I have received CJLS, CKSJ, CKX, CKCD, CHGS, CKMC, CHML and VE9EK. This makes 34 in Canada for me—all of the provinces. I have received 25 K stations with 100 watts or less. I got both Puerto Ricans this month, WNEL four times."

"To start the year off right," begins H. H. Searles, 349 Broadway, Rochester, N. Y., "I bought a new RCA-Victor 6-tube and, take it from me, there is none better. My log now stands at 543 with 401 verified. My best are PP, LR5, YV3RC, TGW, XEFZ, XEWZ, COA, VE9EK, KWG, KFPM and KGGM, all verified."

"I remember reading that someone claimed that large steel buildings were a hindrance to reception," remarks Robert Brady, Jr., 47 Eastman Ave., Rochester, N. Y. "I disagree as all my signals from s. e. to w. must come through three to four thousand feet of such structures which tower 150 feet or more above my antenna. Yet I've received and verified several 100-watters from Calif., 2YA, 4QG and several from S. A."

From Raymond Swanson, 2325 10th St., Rockford, Ill.: "My log has nearly reached 650 stations. It includes 2CO, 2YA, 7ZL, 3AR, 5CK, 3YA, 2FC, 4QG, 5CL, 3LO, 2GB, 2BL, 4BC, 2UE, 2UZ, JOIK, JOAK-1, JOCK-1, JOOK, JOHK, LS2, LR5, YV1RC, TGW, WNEL, WKAQ, KGU and numerous low-powered Coast stations. All TP's were snared with a Radiola 18. I am now using an Echophone 18."

From Jack Mason, 28 Wallace Ave., Covington, Ky.: "So far I've logged 40 states, Canada, Cuba and



After a considerable absence from the air while on a tour of America and Europe, His Royal Hi-de-Highness, Cab Calloway and his band are back among the kilocycles. Cab and his inimitable lowdown Harlem dance rhythm are heard over the WABC-CBS net thrice weekly—Friday, Saturday and Sunday, from Midnight to 12:15 a. m. EST.

Mexico. I am verifying only the most distant stations. I've logged 240 stations on the bc. b. and Australia, Brazil, Aregentina, Cuba, England and Spain on s. w. I will be glad to correspond with anyone using RCA-Victor 143 or GE M-81. I would like to join a good DX club; can you tell me how to do this?" Referred to the clubs.

From J. A. McIver, 18 Jean St., Port Arthur, Ont.: "I have been DXing for almost a year now and have received 285 stations from 45 states. Included are WKAQ, KFPM, the 15-watt station in Greenville, Texas, 6 in California, WLXBS on 1530, 7 Mexicans, with my best catch XFC, 250 watts."

From Clyde A. Ritter, 320 Leonard St., Bloomsburg, Pa.: "My present set is a Philco 45, 6-tube, all-wave and it is very good. I have

logged 400 since September. On the s. w. I have GSB, EAQ, DJC, TIEP, IRS, LSL. Would like to correspond with any owner of Philco 45."

From Robert N. Hoffman, 306 West School Lane, Germantown, Philadelphia: "I have sent my log up to 406 including 27 in Canada, 10 in Mexico, 6 in Cuba and two in Central America. Latest additions are TGW, WNEL, KGDY, WAAW, CHGS and KSOO. Would like to hear from any owner of a Crosley 179."

The Great Lakes Radio Club branch of the CDXR is anxious to get into touch with every DXer living in the Niagara Peninsula and asks that they phone or write Albert Sandham, 99 Page Street, St. Catharines, Ontario. A convention of DXers is being planned for the coming summer.

From Lloyd Harrison, 130 S. Hague Ave., Columbus, Ohio: "I have not heard from any other DXer using a McMillan set so I am claiming the record for this set, having pushed my log to 605 in US, Canada, Mexico, Cuba, Puerto Rico, Guatemala and Argentina. Still have Wyoming to get in the US. Haven't had the luck to hear any TPs or TAs."

From Charlie L. Gochenour, Spary, Ore.: "I am using a Radiola 20 with a directional aerial. I have heard 8 JOs, XGOA, KGU, six Mexicans and 50 US stations east of the Rockies. My best is CMGI, Colon, Cuba. I can hear the Chinese station almost any morning between 5 and 7 o'clock."

From Robert Emory Base, 4105 Alto Road, Windsor Hills, Baltimore: "Since the beginning of this season, I have received 60 new stations bringing my total to 787 with 665 verified. Of these 79 are 2000 miles away. Since September I have heard: LS2, YV1RC, TGW, VOGY, CJRC, CJKL, 4BC, 4BH, XEAF,

CFCT, KIEM, WNEL, KFBK, VONF, CKBI, XEFZ and KIT among others."

"On November 20, I bought a Scott," says Joe Tamele, 13201 Coath Ave., Cleveland, Ohio. "I have logged exactly 421 in 30 days. On November 29, I tuned out XEW and brought in YV1RC at 8:30 p.m. They announced in English. On December 15, I tuned out CRCT and brought in CMQ. I waited 90 minutes for this call."

"The February-March-April issue of the *DX Log of the World* is certainly a joy," writes a reader in Chicago. "It is such a convenience to have all the stations of the world, both s. w. and b. c. in one book and to have them all listed by frequencies, countries, and calls. This issue certainly gives DXers everything they could possibly ask for."

"I have an Erla 5-tube superheterodyne which gives wonderful results," remarks P. L. Rolerson, 95 Battles St., Brockton, Mass. "A few of my catches are KSL, Salt Lake, WOAI, San Antonio, KVOO, Tulsa, WAPI, Birmingham, WWL, New Orleans and many others. This is a small set only 8 by 8 by 15 inches."

Philip Guernsey, 157 Atkins St., Meriden, Conn., tells us he now has 580 active stations on his log with 350 verified. His best are PP, YV1RC, HJN, TGW, XEE, CMJP, LR5, LS2, Toulouse, VOAC, KSUN, KWYO, KFPM and Konigsberg, Germany. He is using a 7-tube Philco 70 and would like to hear from other DXers.

"I have heard Hamburg, Breslau, Munich, Leipzig, Berlin, Cologne, PP, Radio Normandie, Bordeaux, Montpellier and West Regional," epitomizes Paul E. Jolicoeur, 93 Sewall St., Augusta, Maine. "On the other side I have heard 2YA, 2BL, 4BC, KGU and CKWX. Also LR3, LR5 and LS2."

From John B. Grund, Box 456, Hillsboro, N. H.: "I am a sophomore in high school and can DX only on Saturday and Sunday. I have logged 316 stations since September. Some of my best are KJBS, KGDM, HJN, KFPM, KCKC, and KGEK. I use a Philco 70 7 tubes and a T type antenna about 125 feet long. I did use an inverted L but find the T brings them in better."

THE MONTH'S CHANGES

POWER

570	KGKO	Wichita Falls, Tex., 250 to 500
580	WDBO	Orlando, Fla., 250 to 1000
600	CFCF	Montreal, Que., 500 to 400
	CRCW	Windsor, Ont., 500 to 1000
	WICC	Bridgeport, Conn., 250 to 500
680	WPTF	Raleigh, N. C., 1000 to 5000
730	CJCA	Edmonton, Alta., 500 to 1000
860	WHB	Kansas City, Mo., 500 to 1000
930	CKPR	Fort William, Ont., 50 to 100
1010	WNAD	Norman, Okla., 500 to 1000
1070	KJBS	San Francisco, 100 to 500
1100	KGDM	Stockton, Calif., 250 to 1000
1110	KSOU	Sioux Falls, S. D., 100 to 2500
1120	CKX	Brandon, Man., 500 to 100
	KFSG	Los Angeles, 500 to 1000
	KRKD	Los Angeles, 500 to 1000
1280	WIBA	Madison, Wis., 500 to 1000
1290	WNBZ	Saranac Lake, N. Y., 50 to 100
1360	WQBC	Vicksburg, Miss., 500 to 1000
1400	KTUL	Tulsa, Okla., 250 to 500

FREQUENCIES

540	XEAF	Nogales, Son., from 990
840	XEP	Mexico City from 820
970	XEFE	Nuevo Laredo from 1370
960	XEAM	Nuevo Laredo from 750
990	XES	Tampico, Tams., from 970
1160	XEU	Veracruz, Ver., from 1010
1260	KGVO	Missoula, Mont., from 1200
1270	XEG	Ensenada, B. C., from 1280
1320	WORK	York, Pa., from 1000
1430	CMBX	Havana, Cuba, from 1420

NEW

740	XELC	Mexico City
950	KHSL	Chico, Calif.
1200	WMFM	Anderson, S. C.
1210	CJCU	Aklavik, N. W. T.
	WMFN	Clarksdale, Miss
1220	XETF	Veracruz, Ver.
1240	XELA	Saltillo, Coah.
1280	XEMX	Mexico City
1310	XEAJ	Cazaca, Cam.
	XELM	Mineral del Monte, Dgo.
1370	KELD	El Dorado, Ark.
	.....	Decatur, Ala.
1420	WLEU	Erie, Pa.
	KRLC	Lewiston, Idaho
	WPRP	Ponce, P. R.
	XEAZ	Guanajuato, Gto.

DELETED

1200	WBHS	Huntsville, Ala.
	IOBU	Canora, Sask.

PERMIT TO MOVE

600	WMT	Waterloo, Iowa, to Cedar Rapids
1210	WGCM	Gulftport, Miss., to Mississippi City
1370	WBBD	Mount Orab, Ohio, to Portsmouth
1430	KRNT	Cedar Rapids, Iowa, to Des Moines

CALLS

560	WFIL	Philadelphia from WFI-WLIT
1260	WHIO	Dayton, Ohio, from WLBW
1420	KABN	Aberdeen, S. D., from KABR
	WPRP	Ponce, P. R., from WMFK
1430	KRNT	Cedar Rapids from KWCR

LOCATIONS

1500	WKEU	Griffin, Ga., from La Grange
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The "Magic Brain"

(Continued from page 14)

a ten-inch speaker in a console cabinet. Both of these models use the 6D6, 6A7, 6B7, 41 and 80 type of tubes.

Console model 262 is a ten-tube, five-band all-wave set. The fifth band covers frequencies between 18,000 and 36,000 kilocycles. The tubes are: types 6D6, 6A7, 76, 42 and 5Z3. It has a ten-inch loud speaker.

Editor's Note: In the April issue, Mr. Dashiell will discuss several of the leading short-wave receivers such as the Comet-Pro, the Hammarlund and the National.

Experimenting with a Loop

ON PAGE 42 of the January issue, the Technical Editor comments on the use of a loop," points out J. L. Edmiston, R. D. 2, Riverside, Calif. "I believe in some circumstances and with some receivers a loop such as used with the early Radiola supers, may be found an acceptable substitute for an outside antenna. Certain experiments in the use of the loop from an old Radiola 25, with my Atwater Kent t. r. f., warrants this belief. My experiments were undertaken with the thought of possible improvement in the set's selectivity through directional effect observed when used with the old super. In this it was disappointing, no directional effect whatever being observed when used

with the AK. In matter of signal pick-up however, it proved a bit surprising and was found to be quite adequate for all ordinary reception with the AK. This model is provided with two antenna posts, one for use with normal outside aerial and the other for use when a short or indoor antenna is necessary. Attached the 'long' post, signal pick-up was relatively weak, KOA being the most distant station receivable with good quality. Transferred to the 'short' post, however, volume was substantially the equal to that of the long outside aerial. On a check, the loop readily brought in WSB, WBT and, of course, WLW, the last in good volume and quality. This from a location fifty miles east of Los Angeles. The stations to which we turn when KFT does not suit—KPO, KGO, KOA, and KSL—were all brought in by the loop at any desired volume level, with quality quite equal to the outside installation. In the tests one end of loop was brought to antenna post, the other being left open; the regular ground connected at all times."

A Vertical Aerial

W J. MCGRANDLE, 886 Home Street, Winnipeg, Man., sends us a sketch of a new aerial he has erected and which, he says, has brought him in 30 new stations. It is built of a piece of 2 by 2 which is ripped both ways to within ten inches of one end. Wire is wound around these ten inches to prevent further splitting. The four pieces are now spread apart into the shape of a tripod and fastened to the roof. One aerial wire enters an insulator near the base of the tripod and passes up to the peak inside one leg, through an insulator at the top and down inside the leg of the tripod

diagonally opposite. A second wire passes up and down the other two legs in the same way. One of these wires goes to the aerial post of the set and the other to the ground post. A switch in the ground post lead helps to eliminate interference and makes for sharp tuning. (We know a four-legged "tripod" is a curiosity but this was the only way we could describe the construction.)

"I am still using my Sparton 600 which was purchased in 1931 and have had excellent results," adds Mr. McGrandle. "Did not get the DX bug until 1933. My log is now 362 stations with veries from about 40 of the smaller ones. Among my best catches are WCAD, KTRB, CFCT, CKCH, CFPL, WEXL, CMQ, KOTN, WJBK, KFJZ, CMCQ, CKMO, KFVD, WCNW, KGDM, WBBR, KVOA, KFSG, WHBY, and KTUL. The two high-fidelity stations, W1XBS and W9XBY come in quite well here."

Suggests Records for Announcements

WHY do American listeners condemn foreign broadcasting stations for not announcing in English?" queries Charles L. Diedel, 5640 Carpenter St., Philadelphia, Pa. "Do our American broadcasters extend even half as much courtesy to foreign listeners as foreign stations do to us? You will hear most foreign stations announce in English quite often but I have never heard an American make an announcement of their call in any foreign language. Why should the pot call the kettle black when the pot is blacker than the kettle? I suggest that all short wave stations have a record made of their call in various languages and run this record every once in a while. Perhaps the stations in other

countries would adopt the same scheme and DXing everywhere would become more enjoyable." We heartily recommend the above suggestion to the consideration of the American short wave stations and the more powerful stations on the b. c. band as well. It is simple, inexpensive and easily carried out. All stations have equipment for broadcasting records. Who will be first to put this interesting and novel idea into use? All of our larger stations and especially those on short waves, have thousands of listeners in Spanish-, Portuguese-, German-, Italian- and French-speaking countries. What nicer gesture could be made toward Pan-Americanism than to proffer this simple courtesy? We hope this suggestion may come to the attention of the companies which make electrical transcriptions for broadcasting stations. They could prepare these announcement records for their station clients.

Tuning in the Overseas Stations

ON THE morning of November 19, I was able to log Cologne, Hamburg, Copenhagen, Hilversum, PP. and Fecamp," relates Walter C. Birch, 22 Oneida St., East Lynn, Mass. "From that date to December 4, I logged 29 TA's. The best reception was on the afternoon of November 30 when I was able to log 17 stations. PP was coming through at 2:45 when I turned the set on. On December 5 there was a complete reversal. It was impossible to receive anything to the east or to the north. From Newark south to Charleston was absolutely dead. But stations in the far south came through with a bang as did the Cubans. Best reception was from WNEL. On that evening and the

seven following ones, I was able to log LR2-3-5-6-8-9, LS2 and YV1RC in SA. These were received best between 7 and 9 p.m. The TA's reappeared on December 14. Now I have 37 of them logged. When the Europeans are coming through, PP, Toulouse, Bordeaux, I1TO, Hamburg, WR and SR are the stations best received in the late afternoon. During December, Frankfurt-am-Main was the best of the German stations on a.m. reception. Copenhagen has been a standout all year.

"On December 29, we had another reversal. Out with the TA's and in with the SA's. New stations logged were CX-6, LS-1, and LT-3. I am on the trail of three others. The frequencies are 810, 815 and 1090 which I believe to be CX-14, PRA-6 and CX-28 respectively. LR-6 certainly puts out a powerful signal. When he is on the air, he covers WLS-WENR like a glove. On December 31, LS-2 was QSA5 R9 plus from 7 until 11 p.m. YV6RV is also being well received at present. The most amazing station is CMHA; I can hardly believe the power is only 50 watts. I am using the same set as last year, a RCA-Victor R90 10-tube biacoustic super. I use all sorts of aerial systems. I wonder if other DXers have noticed the same atmospheric discrepancies that I have. I certainly would like to hear from them if so. I will answer all letters promptly."

Reception in England

WILFRED J. HAMBLY, 52 Culverden Road, Balham, S. W. 12, London, England, tells us that he identified a station on January 2, which was not to be found in either RADEX or the *DX Log of the World*—"LS Uno, Radio Municipal." "This station I heard at R5, static XX, speech rather blurred especially when announcing, nevertheless I

positively identified him several times on each night, January 2, 2:40-3:00 a.m., 4th, 1:40-2:00 a.m., 5th, 2:50-4:00 a.m., 8th, 1:45-2:00 a.m., 10th, 12:15-2:30 a.m., all GMT. My AVC is very good but he was FFF consistently owing, I think, mostly to Morse transmitter interference and to the fact that he is sandwiched between WOR and WLW. This station comes in, as near as I can check up, just above Rome (420.8 m.) therefore roughly between 710 and 713 kcs. The station announces after practically every item. They use a lot of American jazz and songs and crooners. He usually starts the dance program at 2 a.m. I identified the songs 'All I do is Dream of You,' 'I Don't Want no Angel,' and 'I'll String Along with You.'

"I am also intrigued to find out definitely which Havana station is working between 1113 and 1120 kcs. Heard him first on 7th December and have had him four or five times a week since then but have been unable to get call letters clearly although I have definitely heard 'Havana, Cuba.' I can give particulars of at least a score of items broadcast (American jazz numbers, etc.) on different dates. At times this station comes through at R7, quality good and music beautifully clear but speech rather blurred. There is a woman announcer at certain hours. Her voice is beautifully clear but I have not heard give the call. I have spent practically a solid week on the dials trying to get this call but have not been able to identify positively. I could almost swear I heard it announced as COA. RADEX gives the station on 1125, the nearest Cuban, as CMCg which has a power of only 150 watts. You may imagine it is rather a catch should it be that station. I have him near WRVA on 1110. I know that these Cubans are noted for changing frequencies often but I should be grateful if you

could positively identify him for me.

"My receiver is a GE 8-tube super-het and it appears to be a good 'ether-raker' as I have bagged at least eight stations, American and Cuban, of only 500 watts power at good program value. CMX comes through well when clear of LR2, and WAAB is a great signal. The recent storms on the Atlantic have upset reception of the NA stations somewhat. On occasion I have had some Mexican stations when the USA was unheard. I have found the SA's coming in much better and have bagged 17 of them. WNEL, 500 watts, comes through consistently and is one of my regulars. I am concentrating on the low-powered stations. WDRC, WEEL, WNAC, WJAR and VONF are a few of them."

(Editor's Note: The February *DX Log of the World* lists LS-1(Uno) on 710 kcs. with 5000 watts. We cannot identify the Havana station as we have no record of any station there having used the 1110 channel.)

Suggesting a Uniform System of Logging

● ● ● By HOWARD L. SPIES

IN VIEW of the fact that the expense of verifying reception has debarred many in these times and because so many stations are failing or refusing to verify, it seems to me there should be devised a uniform system of logging so that one may readily compare his log with another's on the same basis. I suggest five rules:

1. Count no station which does not appear in the latest RADEX or *DX Log of the World*.
2. Remove from your list any station which changes frequency or call or decreases power, adding it as one

station when again received following such changes.

- Count as *one* station such combinations as WBZ-WBZA, WLS-WENR, WOOD-WASH, WFLA-WSUN, etc.
- Never include s.w. stations in your reports without identifying them as such, thus: 159 b.c. and 38 s.w.
- Take nothing for granted. Be sure that you clearly hear either the call letters or the location or both.

Every location and every set favors certain frequencies. The fact that a station was received on one frequency does not mean that it can be received on another. Just because a station changes its call is no justification to add a station to the list. It is manifest that it will be harder and

sometimes impossible, to receive a station when it has decreased its power. When two studios use the same transmitter as in the case of WBAP-WFAA, (indicated by the small letters a-b-c, in the fourth column of the Index by Frequencies), it is no more credit to your receiver to log both than it is either one. We should count stations and not calls.

I suggest further that when readers report their logs under this plan they indicate this fact by using the term "RADEX standard." If they desire they may also give their log "All-Time." Let us all adopt this plan and thus put ourselves on an even basis. Of course this system, or any other system for that matter, depends upon the honesty of the one reporting.

THE MARCH DX CALENDAR

of frequency checks and special programs for distant listeners arranged by the stations outside of their regular hours. All time is EST so that programs may be arranged in order.

DAILY				March 10, 24	
11:00-11:05	VAS 685 2000	Glace Bay		2:00-3:00	CMBS 775 150 Havana
12:00-1:00	WFLA 620 1000	Clearwater			March 3, 10, 17, 24
	WMC 780 1000	Memphis		12:00-3:00	CMCD 955 150 Havana
12:00-6:00	KFAC 1300 1000	Los Angeles		1:00-1:15	KOMA 1480 5000 Oklahoma City
12:00-8:00	KJBB 1070 100	San Francisco		2:00-4:00	XEMO 865 2500 Tijuana
1:00-7:00	WEDC 1210 100	Chicago		2:00-6:00	TGW 565 10000 Guatemala
5:30-7:00	WPFA 1420 100	Spartanburg		3:00-5:00	CKOV 630 100 Kelowna
6:00-7:00	KFBI 1050 5000	Ablene			CFCT 1450 75 Victoria
				4:00-5:00	CFJC 880 100 Kamloops
Sunday Mornings				March 4	
March 3				2:00-2:20	WCNW 1500 100 Brooklyn
2:00-3:00	CRCS 950 100	Chicoutimi			WJAC 1310 100 Johnstown
2:00-4:00	CHAB 1200 100	Moose Jaw		2:10-2:30	WFAS 1210 100 White Plains
3:00-3:20	KLCN 1290 100	Blytheville			WRAB 1370 100 Williamsport
3:30-3:50	KXYZ 1440 250	Houston		2:20-2:40	WBNF 1500 100 Binghamton
3:50-4:10	KTUL 1400 250	Tulsa			WCHS 580 500 Charleston
4:00-4:20	KPAC 1260 500	Pt. Arthur		2:30-2:50	WAGM 1420 100 Presque Isle
4:10-4:30	KGDY 1340 250	Huron			WBTM 1370 100 Danville
4:20-4:40	KRGV 1260 500	Weslaco		2:40-3:00	WLVA 1200 100 Lynchburg
4:50-5:10	KARE 890 250	Little Rock		2:50-3:10	WHDL 1420 100 Olean
5:00-5:20	KGKO 570 500	Wichita Falls		3:00-3:20	WCAX 1200 100 Philadelphia
5:20-5:40	WNAD 1010 500	Norman			WBYB 1500 100 Burlington
5:40-6:00	KUOA 1260 1000	Fayetteville		3:10-3:30	WTEL 1310 100 Rutland
March 10				3:20-3:40	WBXB 1200 100 Utica
3:00-4:00	KFXM 1210 100	San Bernardino		3:30-3:50	WQDM 1370 100 St. Albans
	WOS 630 500	Jefferson City			WKOK 1210 100 Sunbury
3:30-4:30	WBOQ 860 50000	New York		3:40-4:00	WMBO 1310 100 Auburn
4:30-6:00	10-BP 1200 25	Wingham		3:45-4:00	WKUJ 1370 100 Walla Walla
March 17				3:50-4:10	WABY 1370 100 Albany
3:00-4:00	CHRC 580 100	Quebec		4:00-4:20	WCAD 1220 500 Canton
3:00-5:00	WHAZ 1300 500	Troy			WGOOS 1200 250 Marshfield
4:13-5:47	..... 985 ...	Mystery		4:10-4:30	WBBL 1210 100 Richmond
5:00-7:00	WTRC 1310 50	Elkhart			KGBU 900 500 Ketchikan
March 24					WRDO 1370 100 Augusta
1:00-1:30	WKY 900 1000	Oklahoma City		4:20-4:40	WNBZ 1290 50 Saranac Lake
3:00-5:00	XED 1160 500	Guadalajara			WBRE 1310 100 Wilkes-Barre
March 31					WKGVO 1200 100 Missoula
2:00-3:00	KGEK 1200 100	Yuma			
2:30-4:30	CKBI 1210 100	Prince Albert			
March 3, 17					
2:00-5:00	VOGY 840 400	St. John's			

March 27

Table with 3 columns: Time, Station, and City. Includes entries like 5:30-5:45 WFBG 1310 100 Altoona, 1:00-1:30 WHEF 1500 100 Koselusko, etc.

March 13, 20, 27

March 6, 13, 20, 27

Thursday Mornings

March 7

Table with 3 columns: Time, Station, and City. Includes entries like 2:00-2:20 WSOC 1210 100 Charlotte, 2:10-2:30 WSPA 1420 100 Spartanburg, etc.

March 28

March 7, 14, 21, 28

Table with 3 columns: Time, Station, and City. Includes entries like 12:00-3:00 WCNW 1500 100 Brooklyn, 3:00-4:00 CKWX 1010 100 Vancouver

Friday Mornings

March 1

Table with 3 columns: Time, Station, and City. Includes entries like 2:00-3:00 KLLX 880 1000 Oakland, 2:30-3:30 CHWK 780 100 Chilliwack, etc.

Table with 3 columns: Time, Station, and City. Includes entries like 4:20-4:40 KWYO 1370 100 Sheridan, 4:30-4:40 WGAR 1450 500 Cleveland, etc.

March 8

Table with 3 columns: Time, Station, and City. Includes entries like 3:00-3:30 KSO 1320 250 Des Moines, 1:00-1:30 WDNC 1500 100 Durham, etc.

March 15

Table with 3 columns: Time, Station, and City. Includes entries like 5:00-5:10 KFNF 890 500 Shenandoah, 5:30-7:30 XGOD 1000 1000 China

March 29

Table with 3 columns: Time, Station, and City. Includes entries like 2:00-3:00 CMCA 1230 150 Havana

Saturday Mornings

March 2

Table with 3 columns: Time, Station, and City. Includes entries like 2:00-3:30 KVOA 1260 500 Tucson, 2:10-2:30 WBRB 1210 100 Red Bank, etc.

Where to Get the DAY'S NEWS

More radio listeners are interested in knowing where and when to tune in the news of the day, than in any other feature. Radio stations are invited to submit the hours of their daily or weekly news flashes or bulletins. A list of the news commentators will be found under "Talks" on page 62. Key: 1 Sunday, 2 Monday, 3 Tuesday, 4 Wednesday, 5 Thursday, 6 Friday, 7 Saturday.

Stations Using Eastern Time

CFRB, Toronto, on 690

8:00-8:10 a.m. (234567)
12:25-12:30 p.m. (234567)
6:30-6:40 p.m. (234567)
11:00-11:15 p.m. (1234567)

CKLW, Windsor, on 1030

8:00-8:05 a.m. (1234567)
10:00-10:05 a.m. (1234567)
12:45-12:50 p.m. (234567)
5:55-6:00 p.m. (1234567)
7:45-8:00 p.m. (1234567)
8:15-8:30 p.m. (246)

WABC, New York, on 860

10:00-10:05 a.m. (234567)
6:55-7:00 p.m. (234567)
10:55-11:00 p.m. (1)

WCAU, Philadelphia, on 1170

10:00-10:05 a.m. (234567)
7:45-8:00 p.m. (234567)
11:00-11:15 p.m. (234567)

WCKY, Cincinnati, on 1490

10:45-10:50 a.m. (1234567)
6:30-6:35 p.m. (1234567)

WEAF, New York, on 660

10:00-10:05 a.m. (234567)
11:00-11:05 a.m. (1)
4:30-4:45 p.m. (1)
6:30-6:35 p.m. (234567)
6:45-7:00 p.m. (7)
11:15-11:20 p.m. (1)

WGY, Schenectady, on 790

6:30 p.m. (1234567)

WHAM, Rochester, on 1150

10:30 p.m. (1234567)
11:10 p.m. (4)

WHEC, Rochester, on 1430

12:30 p.m. (234567)
4:15 p.m. (234567)
11:00 p.m. (1234567)

WJR, Detroit, on 750

11:00-11:15 p.m. (2345)
11:15-11:30 p.m. (6)

WJZ, New York, on 760

10:45-10:50 a.m. (234567)
11:00-11:05 a.m. (1)
6:30-6:35 p.m. (234567)
6:45-7:00 p.m. (23456)

WLW, Cincinnati, on 700

9:55-10:00 a.m. (7)
10:00 a.m. (4)
10:40 a.m. (23456)
11:00-11:05 p.m. (1234567)

WOR, Newark, on 710

8:00-8:05 a.m. (234567)
12:00-12:05 p.m. (234567)
3:00-3:15 p.m. (1)
5:05-5:10 p.m. (234567)
11:00-11:05 p.m. (234567)
11:00-11:15 p.m. (4)

WPG, Atlantic City, on 1100

10:00 a.m. (1234567)

WRVA, Richmond, on 1110

10:00 a.m. (2356)
10:30 a.m. (7)

WTIC, Hartford, on 1040

10:00-10:05 a.m. (234567)
11:00-11:05 a.m. (4)
6:00-6:30 p.m. (234567)
11:30-11:35 p.m. (4)

Stations Using Central Time

CKY, Winnipeg, on 960

1:00-1:05 p.m. (234567)
4:15-4:30 p.m. (36)
5:40-5:45 p.m. (234567)
9:45-10:00 p.m. (1234567)

KFAB, Lincoln, on 770

11:30-11:45 a.m. (234567)
1:15-1:30 p.m. (234567)
3:15-3:30 p.m. (23457)
4:00-4:15 p.m. (234567)

KSTP, St. Paul, on 1460

7:30-7:35 a.m. (234567)
12:45-12:50 p.m. (234567)
6:10-6:15 p.m. (234567)
10:15-10:25 p.m. (1234567)

KTHS, Hot Springs, on 1060

9:00-9:05 a.m. (234567)
10:00 a.m. (4)

KYW, Philadelphia, on 1020

6:15-6:30 p.m. (1234567)
9:00-9:15 p.m. (1234567)

WBAP, Ft. Worth, on 800

5:30 p.m. (234567)

WCCO, Minneapolis, on 810

8:30 a.m. (234567)
11:45 a.m. (234567)

WENR, Chicago, on 870

5:30-5:45 p.m. (234567)

WGN, Chicago, on 720

9:00-9:05 p.m. (1234567)

WHO, Des Moines, on 1000

12:30 p.m. (7)
12:45 p.m. (23456)
6:30 p.m. (7)
6:45 p.m. (23456)
10:05 p.m. (234567)

WJJD, Chicago, on 1130

6:00-6:30 a.m. (234567)
12:50-1:00 p.m. (234567)

WLAC, Nashville, on 1470

6:30-7:00 a.m. (234567)
5:55-6:00 p.m. (234567)

WLS, Chicago, on 870

7:00 a.m. (234567)
8:30-8:45 a.m. (4)
10:25 a.m. (234567)
11:55 a.m. (234567)

WMAQ, Chicago, on 670

5:30-5:45 p.m. (234567)

WOAI, San Antonio, on 1190

9:00 a.m. (234567)
10:05 a.m. (4)
5:30 p.m. (234567)

WOWO, Ft. Wayne, on 1160

12:15 p.m. (1234567)

Stations Using Mountain Time

KFEL, Denver, on 920

8:00 a.m. (1234567)
12:00 noon (1234567)
4:00 p.m. (1234567)
7:00 p.m. (1234567)

KOB, Albuquerque, on 1180

6:45 p.m. (234567)

KSL, Salt Lake City, on 1130

8:00 a.m. (234567)
4:55 p.m. (234567)

Stations Using Pacific Time

KECA, Los Angeles, on 1430

12:15 p.m. (234567)
6:15 p.m. (234567)

KFI, Los Angeles, on 640

7:30 a.m. (234567)
9:45 a.m. (234567)
12:00 noon (234567)
10:00 p.m. (234567)

KGO, San Francisco, on 790

9:45-9:50 a.m. (5)
9:55-10:00 a.m. (7)
10:00-10:05 a.m. (2346)
10:30-10:35 a.m. (7)
9:30-9:35 p.m. (2)
10:30-10:35 p.m. (3457)
10:55-11:00 p.m. (6)
11:00-11:05 p.m. (1)

KJR, Seattle, on 970

9:30-10:45 a.m. (234567)
6:00-6:15 p.m. (234567)
9:00-9:15 p.m. (1234567)

KNX, Hollywood, on 1050

9:45-10:00 a.m. (234567)
12:00-12:15 p.m. (234567)
6:00-6:15 p.m. (234567)
9:00-9:15 p.m. (234567)

KPO, San Francisco, on 680

9:00-9:15 a.m. (7)
10:15-10:30 a.m. (246)
12:00-12:15 p.m. (34567)
4:45-5:00 p.m. (23456)
10:55-11:00 p.m. (234567)
11:00-11:05 p.m. (1)

WHAT'S ON THE AIR TONIGHT

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

COLUMBIA.....(C)	
Call	Dial

NATIONAL, Red (R)	
Call	Dial

NATIONAL, Blue (B)	
Call	Dial

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

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

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

MONDAY

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Buck Rogers; 25th Century
 CKLW WAAB WABC WBNS WCAO
 WCAU WFBL WHEC WHK WJAS
 WJSV WKBW WKRC WOKO

E-6:30 p.m., C-5:30, M-4:30, P-3:30
C — The Shadow; Drama
 WAAB WABC WCAO WCAU WDRC
 WEAN WFBL WHEC WIBX WJSV
 WKBW WOKO WORC

E-6:45 p.m., C-5:45, M-4:45, P-3:45
R — Billy Batchelor
 WBN WCAE WCSH WEAF WEEI
 WFBR WFI WGY WJAR WRC
 WTAG WTAM WVIC WWJ

B — Lowell Thomas
 CFCE CRCT KDKA WBAL WBZ
 WKY WENR WFLA WGAR WHAM
 WIOD WJR WJZ WLW WMAL
 WRVA WSYR

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Myrt and Marge
 WABC WADC WBT WCAO WCAU
 WDAE WDBO WEAN WFBL WGR
 WJAS WJSV WKRC WNAC WOKO
 WQAM WSPD WTOG WWVA

B — Amos 'n' Andy
 CRCT KDKA WBAL WBZ
 WKY WENR WFLA WGAR WHAM
 WIOD WJR WJZ WLW WMAL
 WPTF WRVA

E-7:15 p.m., C-6:15, M-5:15, P-4:15
B — Willard Robison; Mildred Bailey
 KDKA KOIL KSO KWCR KWK
 WBAL WBZ WBZA WCKY WENR
 WHAM WJR WJZ WMAL WSYR

R — Stories of Black Chamber
 KYW WBN WCAE WCSH WEAF
 WEEI WGY WJAR WMAQ WRC
 WSAI WTAG WTAM WVIC

E — 7:30 p.m., C-6:30, M-5:30, P-4:30
C — The O'Neills
 WABC WCAO WCAU WDRC WFBL
 WGR WHEC WHP WJAS WJSV
 WMAS WOKO WORC WWVA

C — Buck Rogers; 25th Century
 KMBC KMOX KRLL KTRH KTSB
 WBBM WBT WCO WDSU WFBM
 WGST WEAS WMBG

B — Rod Davis; Drama
 KDKA KOIL KPRC KSO KSTP

KTBS KWCR KWK WAVE WBAL
 WBZ WBZA WEBC WENR WFLA
 WHAM WIBA WIOD WIS WJAX
 WJDX WJZ WKY WMAL WMC
 WPTF WREN WRVA WSB WSM
 WSMB WSYR WTAR WWNC

R — Easy Aces
 KSO KYW WCSH WEAF WMAQ
 WOW WRC WSAI WTAG WWJ

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Boake Carter for Philco
 CKLW KMBC KMOX WABC WBBM
 WBT WCAO WCAU WCO WGR
 WHAS WHK WJAS WJSV WNAC

B — Dangerous Paradise; Drama
 KDKA KOIL KSO KTBS KVOO
 KWCR KWK WBAL WBZ WFLA
 WENR WFAA WGAR WHAM WJR
 WJZ WKY WMAL WOAI WEN
 WSB WSM WSMB WSYR

R — Uncle Ezra
 KYW WBN WCAE WCSH WDAF
 WEAF WEEI WGY WJAR WMAQ
 WOW WRC WSAI WTAG WTAM

E-8:00 p.m., C-7:00, M-6:00, P-5:00
R — Richard Himber and Orchestra
 KPRC KSD KTBS KVOO WBAP
 WBN WCAE WCSH WDAF WEAF
 WEEI WFAA WGY WHO WJAR
 WKY WMAQ WOAI WOC WOW
 WRC WSAI WTAG WTAM WVIC

B — Jan Garber and Orchestra
 KDKA KDYL KFI KGO KGW KHQ
 KOA KOIL KOMO KSO KWCR
 KWK WBAL WBZ WBZA WGAR
 WHAM WJR WJZ WKBF WLS WLW
 WMAL WREN WSYR

C — Diane and Her Life Saver
 CKLW KDB KERN KPFF KPRC
 KGB KHJ KLZ KMBC KMJ KMOX
 KSL KWG WABC WADC WBBM
 WCAO WCAU WDRC WEAN WFBL
 WFBM WGR WHAS WHK WJAS
 WJSV WKRC WNAC WOKO WSPD

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C — Edwin C. Hill
 CKLW KMBC KMOX WABC WADC
 WBBM WCAO WCAU WCO WDRC
 WEAN WFBL WFBM WGR WHAS
 WHK WJAS WJSV WKRC WNAC
 WOKO WSPD

C — Billy Batchelor
 KDB KERN KFBK KPFF KPRC
 KGB KHJ KMJ KOIN KOL KVI
 KWG

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C — Kate Smith's Star Revue

CKLW KFAB KFH KGKO KLRA
 KMBC KMOX KOMA KRLL KTRH
 KTSB KTUL WABC WADC WALA
 WBBM WBNS WBRC WBT WCAO
 WCAU WCO WCOA WDAE WDBJ
 WDRC WDSU WEAN WFBL WFBM
 WFEA WGR WGST WHAS WHEC
 WHK WIBW WIBX WIC WISN
 WJAS WJSV WKRC WLAC WLZ
 WMAS WMBG WMBR WMT WNAC
 WNOX WNBW WOKO WORC WOW
 WQAM WREC WSBT WSFA WSPD

R — Voice of Firestone
 CFCE CRCT KFPR KPRC KSD
 KSTP KTBS KVOO KYW WAVE
 WBN WCAE WCSH WDAF WDAY
 WEAF WEBC WEEI WFBR WFLA
 WGY WHO WIBA WIOD WIS WJAR
 WJAX WJDX WKBF WKY WMAQ
 WMC WOAI WOW WPTF WRC
 WRVA WSB WSM WSMB WSOB
 WTAG WTAM WTAR WVIC WTAM
 WWJ WWNC

B — Carefree Carnival
 KDKA KDYL KFI KGW KHQ KOA
 KOIL KOMO KPO KSO KWCR
 WBZ WBZA WCKY WGAR WJR
 WJZ WLIT WLS WMAL WREN
 WSYR

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

CKLW KDB KERN KFBK KFH
 KPFF KPRC KGB KGMB KHJ
 KLRA KLZ KMBC KMJ KMOX
 KOH KOIN KOL KOMA KRLL
 KSCJ KSL KTRH KTSB KTUL
 KVI KWG WABC WACO WADC
 WALA WBBM WBIG WBNS WBRC
 WBT WCAO WCAU WCO WDAE
 WDBJ WDBO WDNC WDDO WDRC
 WDSU WEAN WFBL WFBM WFEA
 WGST WHAS WHEC WHK WHP
 WIBW WICC WISN WJAS WJSV
 WKBH WKBW WKRC WLAC WLWB
 WLZ WMAS WMBD WMBG
 WMBR WMT WNAC WNAX WOKO
 WORC WOW WPG WQAM WRC
 WSFA WJSV WSPD WTOG

R — A & P Gypsies
 KSD WBN WCAE WCSH WDAF
 WEAF WEEI WGY WHO WJAR
 WLIT WMAQ WOC WOW WTAG
 WTAM WVIC WWJ

B — Sinclair Greater Minstrels
 KDKA KFI KFSD KFPR KOA KOIL

MONDAY (Continued)

PO KPRC KSO KSTP KTR AR KTBS
TBS KV00 KWK WBAL WBZ
VBA WDAY WECB WFAA WFLA
/GAR WHAM WIBA WIOD WIS
/JAX WJDX WJR WJZ WKY WLS
/LW WMC WOAI WPTF WRN
/RVA WBS WSM WSMB WSOE
/TAR WTMJ WWNC

9-30 p.m., C-8:30, M-7:30, P-6:30
— **The Big Show**

KAC CKLW KFAB KLZ KMBC
MOX KSL WABC WADC WBBM
/BNS WBT WCAO WCAU WCCO
/DRC WDSU WEAN WFBL WFBM
/HAS WHK WICG WJAS WJSV
/KBW WKRC WNAC WOKO
/OWO WREC WSPD

— **Otto Harbach Musical Show**

DYL KFI KFIR KGO KGW KHQ
OA KOMO KPRC KSD KSTP
TBS KV00 WBBN WCAE WCHS
/DAF WDAY WFAF WECB WEEI
/FAA WFBR WFLA WGY WHO
/BA WIOD WIS WJAR WJAX
/JDX WKY WLIT WLW WMAQ
/MC WOAI WOC WOW WPTF WRC
/RVA WSAI WSB WSM WSMB
TAG WTAM WTMJ WWJ WWNC

— **Princess Pat Players**

DKA KOIL KSO KWCR KWK
BAL WBZ WBZA WCKY WENR
GAR WHAM WJR WJZ WMAL
REN WSYR

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

— **Wayne King and Orchestra**
KLW KDB KERN KFAB KFBC
FPY KFRC KGB KHJ KLZ KMBC
KJ KMOX KOIN KOL KRLD
/LKV KIWG WAAB WABC WADC
BBM WBSN WCAO WCAU WCCO
DRC WDSU WEAN WFBL WFBM
HAS WHK WIBW WJAS WJSV
KBW WKRC WOKO WSPD

— **Contented Program**

PCF CRCT KDYL KFI KFIR
/30 KGW KHQ KOA KOMO KPRC
ID KSTP WBBN WCAE WCHS
/DAF WFAF WECB WEEI WFAA
/FBR WGY WHO WJAR WKY
/LIT WLW WMAQ WMC WOAI
/C WOW WRC WBS WSM WTAG
/AM WTIC WTMJ WWJ

— **Jackie Heller, Tenor**

DKA KOIL KSO KWCR WBAL
/3Z WBZA WCKY WENR WGAR
/AM WJR WJZ WMAL WREN
/YR

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

— **Talks on Health Problems**
RB CKLW KFH KLRA KLZ
/BC KOH KRLD KTRH KTSR
/OR KWKH WAAB WABC WACO
/DC WALA WBIG WBNS WBRC
/T WCAU WCCO WDAE WDBJ
/BO WDNC WDOD WDSU WEAN
/BL WFBM WFEA WGLC WGR
/EC WHK WHP WIBW WICO
/SN WJAS WJSV WKRC WLAC
/BW WLBZ WMAS WMBD
/BG WMBR WMT WNAX WNOX
/KO WORC WPG WQAM WREC
/BT WSPA WSJS WSPD WTOC

11:45 p.m., C-9:45, M-8:45, P-7:45

— **Fray and Braggotti**
RB CKAC CKLW KFH KGKO
/RA KLZ KMBC KOH KRLD
/RH KTSR KVOR KWKH WAAB
/BC WACO WADC WALA WBIG

WBNS WBRC WBT WCAO WCAU
WDAA WDBJ WDBO WDNC WDOD
WDSU WEAN WFBL WFBM WFEA
WGLC WGR WHEC WHK WHP
WICC WISN WJAS WJSV WKRC
/WLAC WLBW WLBZ WMAS WMBD
/WMBG WMBR WMT WNAX WNOX
/WOKO WORC WPG WQAM WREC
/WSBT WSPA WSJS WSPD WTOC

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

— **Myrt and Marge**
KDB KERN KFAB KFBC KFPY
KFRC KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA
/KRLD KSL KTRH KVI KWG WALA
/WBBM WBRC WCCO WDSU WFBM
/WGST WHAS WLAC WREC WSPA

— **Amos 'n' Andy**

KOIL KPRC KSTP KTBS KWK
WBAP WCKY WDAF WENR WFAA
WJR WKY WMC WOAI WREN
WSB WSM WTMJ

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

— **Glen Gray and Orchestra**
KLRA WABC WALA WBRC WBT
WCAO WDAA WDBJ WDBO WDNC
/WDOD WDRC WDSU WEAN WFEA
/WJSV WLAC WLBZ WMAS WMBG
/WMBR WNAC WNOX WORC WPG
/WQAM WREC WSPA WSJS WTOC

— **Edwin C. Hill**

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

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

— **Voice of Firestone**
KDYL KFI KFSD KGHL KGIR
KGU /KGW KHQ KOA KOMO KPO
KTR AR

— **Kate Smith's Star Revue**

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

TUESDAY

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

— **Buck Rogers, See Monday**

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

— **Musical Appreciation Program**
CKLW KLRA WABC WALA WBIG
WBRC WBT WCAO WDAE WDBJ
/WDBO WDNC WDOD WDRC WDSU
/WEAN WFEA WGLC WHEC WHK
/WHP WJAS WJSV WKBW WKRC
/WLAC WLBW WLBZ WMAS WMBG
/WMBR WNOX WOKO WORC WQAM
/WREC WSPA WSJS WSPD WTOC
/WVVA

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

— **Billy Batchelor, See Monday**

— **Lowell Thomas, See Monday**

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

— **Myrt and Marge, See Monday**

— **Amos 'n' Andy, See Monday**

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

— **Whispering Jack Smith**
KSD KYW WBBN WCHS WFAF
/WFBR WJAR WMAQ WRC WSAI
/WTAG WTAM WTIC

— **Morton Downey**

KDKA KOIL KSO KWCR WBZ
/WBZA WCKY WENR WFI WGAR
/WHAM WJR WJZ WKBF WMAL
/WREN

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

— **Household Musical Memories**

KDKA KOIL KSO KWCR KWK

WBAL WBZ WBZA WENR WGAR
WHAM WJZ WMAL WREN WSYR

— **Buck Rogers, See Monday**

— **Easy Aces, See Monday**

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

— **Boake Carter, See Monday**

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

— **Frank Munn; Gustav Haenschen**
CKLW KMBC KMOX WABC WADC
/WBBM WCAO WCAU WDRC WEAN
/WFBL WFBM WGR WHAS WHK
/WJAS WJSV WKRC WNAC WOKO

— **Leo Reisman and Orchestra**

KFYR KPRC KSD KSTP KTBS
KV00 WAVE WBAP WBBN WCAE
/WCHS WDAF WDAY WFAF WECB
/WEEI WFBR WFI WFLA WGY
/WIBA WIOD WIS WJAR WJAX
/WJDX WKBF WKY WMAQ WMC
/WOC WOW WPTF WRC WSB WSM
/WSMB WSOE WTAG WTAM WTAR
/WTIC WTIMJ WWJ WWNC

— **Ero Crème Clues**

KDKA KOIL KSO KWCR KWK
/WBAL WBZ WBZA WGAR WJR
/WJZ WLS WLW WMAL WREN
/WSYR

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

— **Billy Batchelor, See Monday**

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

— **Abe Lyman; Vivienne Segal**
CFBR CKLW KMBC KMOX WABC
/WADC WBBM WCAO WCAU WCCO
/WDRC WEAN WFBL WFBM WGR
/WHAS WHK WJAS WJSV WKRC
/WNAC WOKO WOWO WSPD

— **Wayne King and Orchestra**

KPRC KSD KSTP WBBN WCAE
/WCHS WDAF WFAF WEEI WFAA
/WFI WGY WHO WJAR WKBF WKY
/WMAQ WMC WOAI WOC WOW
/WRC WSAI WSB WSM WSMB
/WTAG WTAM WTIC WTMJ WWJ
/B — **Lawrence Tibbett**

CFCF CRCT KDKA KOIL KSO
/KWCR WBAL WBZ WBZA WGAR
/WHAM WJR WJZ WLS WMAL
/WREN WSYR

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

— **Bing Crosby; Mills Bros.**

CKLW KDB KERN KFBC KFPY
/KFRC KGB KHJ KLZ KMBC KMJ
/KMOX KOIN KOL KRLD KSL
/KTUL KVI KWG WABC WADC
/WBBM WBT WCAO WCAU WCCO
/WDRC WDSU WEAN WFBL WFBM
/WGST WHAS WHK WJAS WJSV
/WKBW WKRC WNAC WOKO
/WOWO WREC WSPD

— **Ben Bernie and Orchestra**

KFYR KOA KPRC KSD KSTP
/KTBS WBAP WBBN WCAE WCHS
/WDAY WFAF WEEI WFBM WFI
/WGY WJAR WJDX WKY WMAQ
/WMC WOAI WOW WRC WSB WTAG
/WTAM WTIC WTMJ WWJ

— **Grace Moore, Soprano**

KDKA-KDYL KFI KGW KHQ KOA
/KOIL KPO KSO KWCR KWK WBAL
/WBZ WBZA WCKY WFI WHAM
/WJR WJZ WKBF WLS WMAL
/WREN WSYR

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

— **Isham Jones and Orchestra**

CKLW KDB KERN KFAB KFBC
/KFH KFPY KFRC KGB KGKO
/KHJ KLRA KLZ KMBC KMJ KMOX
/KOH KOIN KOL KOMA KRLD

TUESDAY (Continued)

KSCJ KSL KTRH KTSa KTUL KVI
KWG KWKH WABC WACO WADC
WALA WBBM WBNS WBRC WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDDO WDRC WDSU WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WIBW WIBX
WICC WIND WISN WJAS WJSV
WKBN WKBW WKRC WLAC
WLBW WMAS WMBD WMBG
WMBR WMT WNAC WNAX WNOX
WOKO WORC WOWO WPG WQAM
WREC WSAF WSJS WSMK WSPD

R — Ed Wynn; Eddie Duchin

KDYL KFI KFSD KFYYR KGH
KGR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KTAR KTBS
KTHS KVOO WAVE WBAP WBEN
WCAE WWSB WDAF WDAY WFAE
WIBC WEEI WFBR WFI WFLA
WGY WHO WIOD WIS WJAR
WJAX WJDX WKBF WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSB WSM WSMB WSOB
WTAG WTAM WTIC WTMJ WWJ
WWNC

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

C — Glen Gray; Walter O'Keefe

CKLW KFAB KFH KLRA KMBC
KMOX KOMA KRLD KSCJ KTRH
KTSa KTUL KWKH WABC WACO
WADC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDNC WDDO
WDRS WDSU WEAN WFBL WFBM
WFEA WGST WHEC WHK WHP
WIBW WICC WISN WJAS WJSV
WKBN WKBW WKRC WLAC
WLBW WLBZ WMAS WMBD
WMBG WMBR WMT WNAC WNAX
WOKO WORC WOWO WPG WQAM
WREC WSAF WSJS WSPD WTOC

R — Palmolive Beauty Box

CFBC CRCT KDYL KFI KFSD
KFYYR KGH KGR KGO KGW
KHQ KOA KOMO KPRC KSD KSTP
KTAR KTBS KVOO WAVE WBAP
WBEN WCAE WCHS WDAF WDAY
WEAF WIBC WEEI WFBR WFLA
WGY WHO WIOD WIS WJAR WJAX
WJDX WKBF WKY WMAQ
WMC WOAI WOC WOW WPTF
WRC WRVA WSB WSM WSMB
WSOB WTAG WTAM WTMJ WWJ
WWNC

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

C — Emery Deutsch and Orchestra

CFRB CKAC CKLW KDB KFH
KGKO KLRA KLZ KMBC KOH
KOMA KRLD KSCJ KTRH KTSa
KVOR KWKH WABC WABC WACO
WADC WALA WBIG WBNS WBRC
WBT WCAO WCAU WDAE WDBJ
WDBO WDNC WDDO WDRC WDSU
WEAN WFBL WFBM WFEA WGLC
WGR WHEC WHK WHP WIBW
WICC WJAS WJSV WKRC WLAC
WLBW WLBZ WMAS WMBD
WMBG WMBR WMT WNAX WNOX
WOKO WORC WPG WQAM WSBT
WSFA WSJS WSPD WTOC

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

C — Myrt and Marge, See Monday

B — Amos 'n' Andy, See Monday

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

C — Joe Haynes and Orchestra

CKAC CKLW KDB KFH KGKO
KLRA KLZ KOH KOMA KRLD
KTRH KTSa KTRH KWKH WABC

WACO WADC WALA WBNS WBRC
WBT WCAO WDAE WDBJ WDBO
WDNC WDRC WDSU WEAN WFBL
WFEA WGLC WHEC WHK WHP
WIBW WJAS WJSV WKBW WKRC
WLAC WLBW WLBZ WMAS WMBG
WMBR WMT WNAC WNAX WNOX
WOKO WORC WPG WQAM WSBT
WSFA WSJS WSPD WTOC WWVA

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

C — Johnny Green and Orchestra

CFRB CKAC CKLW KFH KGKO
KLRA KLZ KMBC KOH KOMA
KRLD KSCJ KTRH KTSa KVOR
KWKH WABC WADC WBBM WBNS
WBRC WBT WCAO WCAU WDAE
WDBJ WDBO WDNC WDDO WDRS
WDSU WEAN WFBL WFEA WHEC
WHK WHP WIBW WICC WISN
WJAS WJSV WKBW WKRC WLAC
WLBW WLBZ WMAS WMBD
WMBR WMT WNAC WNAX WNOX
WORC WPG WQAM WSBT WSAF
WSJS WSPD WTOC WWVA

R — Leo Reisman and Orchestra

KDYL KFI KFSD KGR KGO KGW
KHQ KOA KOMO KPO KTAR

WEDNESDAY

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

C — Buck Rogers, See Monday

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

C — The Shadow, See Monday

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

R — Billy Batchelor, See Monday

B — Lowell Thomas, See Monday

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

C — Myrt and Marge, See Monday

B — Amos 'n' Andy, See Monday

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

B — Willard Robison, See Monday

R — Black Chamber, See Monday

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

C — Buck Rogers, See Monday

B — Red Davis, See Monday

C — The O'Neill's, See Monday

R — Easy Aces, See Monday

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

C — Boake Carter, See Monday

B — Dangerous Paradise, See Monday

R — Uncle Ezra, See Monday

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

R — Mary Pickford and Company

CFBC CRCT KDYL KFI KFYYR
KGO KGW KHQ KOA KOMO KPRC
KSD KSTP KTAR KTBS KVOO
WAVE WBAP WBEN WCAE WCKY
WCHS WDAF WDAY WFAE WIBC
WEEI WFBR WFLA WGY WHO
WIBA WIOD WIS WJAR WJAX
WJDX WKY WLIT WMAQ WMC
WOAI WOC WOW WPTF WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WTIC WTMJ WWJ
WWNC

B — Penthouse Party; Mark Hellinger

KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WGAR WHAM
WJRWJZ WLS WLW WMAL WREN
WSYR

C — Diane and Life Saver, See Monday

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

C — Edwin C. Hill, See Monday

C — Billy Batchelor, See Monday

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

C — Everett Marshall; Victor Arden
CKLW KDB KERN KFBC KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KSL KVI KWG WABC WADC
WBBM WBT WCAO WCAU WDRS
WDSU WEAN WFBL WFBM WGR
WHAS WIBW WJAS WJSV WKRC
WLAC WNAC WOKO WOWO WSPD

B — Lanny Ross and Orchestra

KDKA KOIL KSO KWCR WBAL
WGAR WHAM WJR WJZ WLS
WMAL WREN WSYR

R — Wayne King, See Tuesday

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

R — Fred Allen; Lennie Hayton

KPRC KSD KSTP KTBS KVOO
WBEN WCAE WCHS WDAF WFAE
WIBC WEEI WFBR WGY WIOD
WIS WJAR WJAX WKY WLIT
WLW WMAQ WMC WOAI WOW
WPTF WRC WRVA WSB WSM
WSMB WTAG WTAM WTMJ WTMJ
WWJ

B — Warden Lawes; Drama

KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KOMO KSO KWCR
KWK WBAL WBZ WBZA WCKY
WGAR WHAM WJR WJZ WKBF
WLS WLW WMAL WREN WSYR
C — Chesterfield Program, See Mon.

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

C — George and Gracie

CKLW KDB KERN KFBC KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KOMA KRLD
KSL KTRH KTSa KVI KWG WABC
WADC WBBM WBIG WBT WCAO
WCAU WCCO WDRS WDSU WEAN
WFBL WFBM WHK WJAS WJSV
WKBW WKRC WNAC WOKO WORC
WOWO WSPD

B — John Charles Thomas

KDKA KDYL KFI KGO KGW
KHQ KOA KOIL KOMO KSO KWCR
KWK WBAL WBZ WBZA WCKY
WREN WGAR WHAM WJR WJZ
WKBF WLW WMAL WREN WSYR

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

C — Jack Pearl; Freddie Rich

CKLW KDB KERN KFAB KFBC
KFH KFPY KFRC KGB KGKO
KLZ KMBC KMJ KMOX KOIN
KOL KOMA KLRA KRLD KSCJ
KSL KTRH KTSa KTUL KVI
KWG KWKH WABC WALA WBBM
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDDO
WDRS WDSU WEAN WFBL WFBM
WGST WHAS WHEC WHK WHP
WIBW WIBX WICC WJAS WJSV
WKBW WKRC WLAC WMAS
WMBD WMBG WMBR WMT WNAC
WNAX WNBW WNOX WOC WOKO
WOWO WQAM WREC WSBT WSMK
WSPD WTOC

R — Guy Lombardo and Orchestra

KPRC KSD KTBS KTHS KVOO
WAVE WBEN WCAE WCHS WDAF
WEAF WEEI WFAA WFBR WFLA
WGY WHO WIOD WIS WJAR WJAX
WJDX WKBF WKY WLIT WLW
WMAQ WMC WOAI WOC WOW
WPTF WRC WRVA WSB WSM
WSMB WTAG WTAM WTMJ WWJ
WWNC

B — Jimmy Fidler, Hollywood Gossip

KDKA KDYL KFI KGO KHQ KOA
KOIL KOMO KPO KSO KWCR

WEDNESDAY (Continued)

WBAL WBZ WBZA WCKY WENR
WGR WHAM WJR WJZ WLIT
WMAL WREN WSYR

E-10:15 p.m., C-9:15, M-8:15, P-7:15

B — Madame Sylvia, Talks
KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KOMO KSO KSTP KWCR
KWK WBAL WBZ WBZA WBCB
WENR WGR WHAM WJZ WMAL
WREN WRVA WSYR WTMJ

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

C — Howard Barlow; Mary Eastman
CFRB CKAC CKLW KDB KFH
KGKO KHJ KLRA KLZ KMBC
KOH KOMA KRLL KSCJ KTRH
KTSa KVOB KWKH WAAW WABC
WACO WADC WALA WBBM WBIG
WBRC WBT WCAO WCAU WDAE
WDBJ WDDB WDNC WDDW WDRC
WDSU WEAN WFBL WFBM WFEA
WGLC WGR WHEC WHP WIBW
WICC WISN WJAS WJSV WKRC
WLAC WLWB WMAS WMBD
WMBR WMT WNOX WOKO WORC
WQAM WSBT WSFA WSJS WSPD
WTOC

R — Ray Noble and Orchestra

KDYL KFI KGW KHQ KOA KOMO
KPO KSD KYW WAPI WAVE WBEN
WCAE WCSH WFAE WEEI WFBW
WGY WHO WJAR WJDX WKBF
WLW WMAQ WMC WOW WRC
WSB WSM WSMB WTAG WTAM
WTIC WWJ

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

C — Myrt and Marge, See Monday
B — Amos 'n' Andy, See Monday

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

C — Leon Belasco and Orchestra
KLRA WABC WALA WBRC WBT
WCAO WCAU WDAE WDBJ WDDB
WDNC WDDW WDRC WDSU WEAN
WFEA WJSV WLAC WLWB WMBR
WNAC WNOX WORC WPG WQAM
WCSA WSJS WTOC

C — Edwin C. Hill, See Monday

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

C — Ozzie Nelson and Orchestra
KLRA WABC WALA WBRC WBT
WCAO WCAU WDBJ WDDB WDNC
WDDW WDRC WDSU WEAN WFEA
WICC WISN WJAS WLAC WLWB
WMAS WMBR WNAC WNOX WORC
WPG WQAM WSFA WSJS WTOC

C — Voice of Experience

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

B — Lanny Ross and Orchestra

KDYL KFI KFSB KGO KGW KHQ
KOA KOMO

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

R — Fred Allen; Lennie Hayton
KDYL KFI KGO KGW KHQ KOA
KOMO

THURSDAY

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

C — Buck Rogers, See Monday

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

R — Billy Batchelor, See Monday

B — Lowell Thomas, See Monday

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

C — Myrt and Marge, See Monday
B — Amos 'n' Andy, See Monday

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

B — Gems of Melody

KDKA KOIL KSO KTBS KWCR
WBAL WBZ WBZA WENR WHAM
WJZ WMAL WREN WSYR

R — Whispering Jack Smith, See Tues.

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

C — Buck Rogers, See Monday

R — Mollie Minstrels

KSD KYW WBEN WCSH WDAF
WEAF WGY WHO WJAR WMAQ
WRC WSAl WTAg WTAM WWJ

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

C — Boake Carter, See Monday

B — Ruth Etting; Red Nichols

KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WCKY WENR
WFIL WGR WJZ WLS WMAL
WREN WSYR

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

R — Rudy Vallee and Orchestra

CFBC CRCT KDYL KFI KFYR
KGO KGW KHQ KOA KOMO KPRC
KSD KSTP KTAR KVOO WAPI
WBAP WBEN WCAE WCSH WDAY
WEAF WEEB WEEI WFBW WFI
WFLA WGY WHO WIOD WIS
WJAR WJAX WJDX WKY WLW
WMAQ WMC WQAI WOC WOW
WPTF WRC WRVA WSB WSM
WSMB WTAg WTAM WTIC WWJ
WWNC

C — Phil Spitalny's Girl Orchestra

CKLW KDB KERN KFAB KFBC
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KSL KVI
KWG WABC WADC WBBM WCAO
WCAU WCCO WDRC WEAN WFBL
WFBM WGR WHAS WHK WJAS
WJSV WKRC WMAS WNAC WOKO
WSPD

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

C — Billy Batchelor, See Monday

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

C — Edwin C. Hill

CKLW KMBC KMOX WABC WADC
WBBM WCAO WCAU WDRC WEAN
WFBL WFBM WGR WHAS WHK
WJAS WJSV WKRC WNAC WOKO
WOWO WSPD

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

C — Glen Gray; Walter O'Keefe

CKLW KFAB KFH KLRA KMBC
KMOX KOMA KRLL KSCJ KTRH
KTSa KTUL KWKH WABC WACO
WADC WALA WBBM WBIG WBNS
WBRC WBT WCAO WCAU WCCO
WDAE WDBJ WDDB WDNC WDRC
WDSU WEAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBW WICC WISN WJAS WJSV
WKBN WKWB WKRC WLAC
WLWB WLWB WMAS WMBD
WMBG WMBR WMT WNAC WNAX
WOKO WORC WOWO WPG WQAM
WREC WSFA WSJS WSPD WTOC

R — Maxwell House Show Boat

KDYL KFI KFSB KGHL KGIR
KGO KGW KHQ KOA KOMO KPRC
KSD KSTP KTAR KTBS WAPI
WAVE WBAP WBEN WCAE WCSH
WDAF WEAF WEEI WFBW WFI
WFLA WGY WHO WIOD WIS WJAR
WJAX WJDX WKBF WKY WLW

WMAQ WMC WQAI WOC WOW

WRC WRVA WSAl WSB WSM
WSMB WTAg WTAM WTIC WTMJ
WWJ WWNC

B — Death Valley Days; Drama

KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WGR WHAM
WJR WJZ WLS WLW WMAL WREN
WSYR

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

C — Fred Waring's Pennsylvanians

CFRB CKLW CROM KDB KERN
KFAB KFBC KFH KFPY KFRC
KGB KGKO KHJ KLRA KLZ KMBC
KMJ KMOX KOH KOIN KOL KOMA
KRLL KSCJ KSL KTRH KTSa
KTUL KVI KVOB KWG WABC
WACO WADC WALA WBBM WBIG
WBNS WBRB WBT WCAO WCAU
WCCO WDAE WDBJ WDDB WDNC
WDDW WDRC WDSU WEAN WFBL
WFBM WFEA WGLC WGST WHAS
WHEC WHK WHP WIBW WICC
WISN WJAS WJSV WKBN WKWB
WKRC WLAC WLWB WLWB WMAS
WMBD WMBG WMBR WMT WNAC
WNAX WNOX WOKO WORC WOWO
WPG WQAM WREC WSFA WSJS
WSPD WTOC

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

R — Paul Whiteman's Music Hall

CFBC CRCT KDYL KFI KFYR
KGO KGW KHQ KOA KOMO KPRC
KSD KSTP KTAR KTBS KTHS
KVOO WAPI WAVE WBAP WBEN
WCAE WCSH WDAF WDAY WEAF
WEEB WEEI WFBW WFI WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WQAI WOC WOW WPTF
WRC WRVA WSB WSM WSMB
WTAg WTAM WTIC WTMJ WWJ
WWNC

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

C — Leith Stevens' Harmonies

CKLW KFH KLRA KLZ KMBC
KRLL KSCJ KTRH KWKH WAAW
WABC WADC WALA WBBM WBIG
WBT WCAO WCCO WCOA WDDB
WDNC WEAN WFBM WFEA WGST
WHEC WIBX WICC WJAS WKBN
WKRC WLWB WMAS WMT WOG
WOKO WORC WQAM WREC WSJS
WSPD

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

C — Myrt and Marge, See Monday

B — Amos 'n' Andy, See Monday

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

C — Little Jack Little

CFRB CKAC CKLW KDB KFH
KGKO KLRA KLZ KOH KOMA
KRLL KSCJ KTRH KTSa KVOB
KWKH WABC WACO WADC WALA
WBBM WBNS WBRB WBT WCAO
WCCO WDAE WDBJ WDDB WDNC
WDDW WDRC WDSU WEAN WFBL
WFBM WFEA WGLC WHEC WHK
WHP WIBW WISN WJAS WJSV
WKBN WKRC WLAC WLWB WLWB
WMAS WMBD WMT WNAC WNAX
WNOX WOKO WORC WPG WQAM
WSBT WSFA WSJS WSPD WTOC
WWVA

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

C — Glen Gray; Walter O'Keefe

KDB KERN KFBC KFPY KFRC
KGB KHJ KLZ KMJ KOH KOIN
KOL KSL KVI KVOB KWG

FRIDAY

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

C — Leon Navara and Orchestra
CKLW KFH KGKO KLZ KMBC
KOH KOMA KRLD KSCJ KSL
KTRH KVOR KWKH WAAB WABC
WADC WBBM WCAO WCAU WDNC
WDRG WFBL WHEC WHK WISN
WJAS WJVS WKWB WLAC WLWB
WMT WOKO WORC WSPD

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

C — H. V. Kaltenborn
CKLW KFH KGKO KLZ KMBC KOH
KOMA KRLD KSCJ KSL KTRH
KVOR KWKH WAAB WABC WBBM
WCAO WCAU WDNC WDRG WFBL
WGLC WHEC WHK WISN WJAS
WJVS WKWB WLAC WLWB WMT
WOKO WORC WSPD

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

R — Billy Batchelor, See Monday
B — Lowell Thomas, See Monday

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

C — Myrt and Marge, See Monday
B — Amos 'n' Andy, See Monday

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

B — Willard Robison, See Monday
R — Black Chamber, See Monday

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

B — Red Davis, See Monday
C — The O'Neill's, See Monday

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

C — Beake Carter, See Monday
B — Dangerous Paradise, See Monday
R — Uncle Ezra, See Monday

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

R — Cities Service Concert
CRCT KDYL KOA KPRC KSD
KSTP KTBS KTHS KVOO KYW
WBAP WBEN WCAE WCSH WDAF
WEAF WEBC WEEL WFAA WFRB
WGY WHO WJAR WKY WLIT
WOAI WOC WOW WRC WRVA
WSAI WTAG WTAM WTIC WWJ

B — Irene Rich; Drama

KDKA KOIL KSO KWCR WAVE
WBAL WBZ WBZA WHAM WJZ
WLS WML WMC WREN WSB
WSM WSYR

C — Mrs. Franklin D. Roosevelt

CFRB CKLW KDB KERN KEAB
KFBK KFH KFPY KFRG KGB
KHJ KLRA KLZ KMBC KMJ KMOX
KGIN KOL KOMA KRLD KSCJ
KSL KTRH KTSB KVI KWG WABC
WADC WBBM WBNS WBRB WBT
WCAO WCAU WCCO WDAE WDBJ
WDRG WDSU WEAN WFBL WFBM
WGR WGST WHAS WHEC WHK
WJAS WJVS WKRC WLAC WLWB
WMBG WMBR WNAC WNOX
WOKO WORC WQAM WREC WSPD

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

C — Edwin C. Hill, See Monday
C — Billy Batchelor, See Monday

B — Robert Armbruster and Orchestra

KDKA KOIL KSO KWCR WBZ
WBZA WJR WJZ WKBF WLS
WML WREN WSYR

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

C — True Story Court
CKLW KMBC WABC WADC WBBM
WCAO WCAU WCCO WDRG WJAN

WFBL WGR WHK WJAS WJVS
WKRC WNAC WOKO

B — Al Goodman and Orchestra
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WGAR WHAM
WJR WJZ WLS WML WREN
WSYR

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

C — March of Time
CKLW KDB KERN KFBK KFPY
KFRG KGB KHJ KLZ KMJ KMOX
KGIN KOL KRLD KSL KVI KWG
WABC WADC WBBM WCAO WCAU
WCCO WDRG WDSU WEAN WFBL
WFBM WGST WHAS WHK WJAS
WJVS WKWB WKRC WNAC WOKO
WOW WSPD

R — Frank Munn; Abe Lyman

KSD WBEN WCAE WCSH WDAF
WEAF WEEL WFBR WGY WJAR
WLIT WLW WMAQ WOW WRC
WTAG WTAM WWJ

B — Beatrice Lillie

CFRC CRCT KDKA KDYL KFI
KGW KHQ KOA KOIL KOMO KPO
KPRC KSO KTHS KWCR KWK
WAPI WAVE WBAL WCKY WFLA
WGR WHAM WIOD WIS WJAX
WJDX WJZ WKY WLIT WLS WML
WMC WPTF WREN WSB WSMB
WSYR WTRAR WUNC

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

C — Hollywood Hotel
CFRB CKAC CKLW KDB KERN
KFBK KFBK KFH KFPY KFRG
KGB KGKO KHJ KLRA KLZ KMBC
KMJ KMOX KOH KOIN KOL KOMA
KRLD KSCJ KSL KTRH KTSB
KTUL KVI KVOR KWG KWKH
WABC WACO WADC WALA WBBM
WBIG WBNS WBRB WBT WCAO
WCAU WCCO WDAE WDBJ WDBO
WDNC WDOD WDRG WDSU WEAN
WFBL WFBM WFEA WGST WHAS
WHEC WHK WHP WBW WBX
WICC WISN WJES WJVS WKBH
WKBW WKRC WLAC WLWB WLWB
WMAS WMBD WMBG WMBR WMT
WNAC WNAX WNOX WOKO WORC
WOW WPG WQAM WREC WSBT
WSFA WSJS WSPD WTOC

R — Pick and Pat

KSD WBEN WCAE WCSH WDAF
WEAF WFBR WGY WHO WJAR
WLIT WMAQ WOC WOW WRC
WSAI WTAG WTAM WTIC WWJ

B — Armour Program; Phil Baker

KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KOMO KPRC KSO
KSTP KTAR KWK WAPI WAVE
WBAL WBZ WBZA WBCB WENR
WFAA WFLA WGAR WHAM WIOD
WJAX WJR WJZ WKY WMC WOI
WREN WRVA WSB WSM WSMB
WTMJ WWNC

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

R — First Nighter; Drama
KDYL KFI KGO KGW KHQ KOA
KOMO KPRC KSD KSTP WBEN
WCAE WCSH WDAF WEAF WEBC
WEEL WFAA WFRB WGY WHO
WJAR WKY WLIT WLW WMAQ
WMC WOAI WOC WOW WRC WSB
WSM WSMB WTAG WTAM WTIC
WTMJ WWJ

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

C — O'Flynn's Musical Drama
KLRA KWKH WABC WBIG WBT
WCAO WCAU WCHS WDBJ WDOD

WDRG WDSU WFBL WGR WHEC
WHP WICC WJAS WJVS WLAC
WLWB WMAS WMBG WOKO WORC
WPG WREC WSJS

R — Coca Cola; Frank Black

CFRC CRCT KDYL KFI KFSB
KFYR KGHG KGRG KGU KGW
KHQ KOA KOMO KPO KSTP KTAR
KTHS KTHS KYW WAVE WCAE
WCSH WDAY WEAF WEBC WEEL
WFBR WFLA WGY WIBA WIS
WJAR WJAX WJDX WKBV WLW
WMC WOW WPTF WRC WSB
WSMB WSOX WTAG WTAM WTRAR
WTIC WTMJ WWJ WWNC

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

C — Myrt and Marge, See Monday
B — Amos 'n' Andy, See Monday

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

C — Ozzie Nelson and Orchestra
KLRA WABC WALA WBRB WBT
WCAO WDAE WDBO WDNC WDOD
WDRG WDSU WEAN WFEA WHK
WJVS WLAC WLWB WMAS WNAC
WNOX WORC WPG WQAM WSFA
WSJS WTOC

C — Edwin C. Hill See Monday

SATURDAY

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

C — Liliac Time; Arthur Murray
CKLW KDB KERN KFBK KFPY
KFRG KGB KHJ KLZ KMJ KMOX
KGIN KOL KRLD KSL KTRH
KTSB KVI KWG WAAB WABC
WBBM WBNS WCAU WCCO WFBL
WFBM WGR WHAS WHEC WHK
WJVS WKRC

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

C — Eddie Dooley Sports Review
WABC WBIG WBT WCAO WCAU
WDBJ WDNC WDRG WEAN WFBL
WFEA WHEC WHP WICC WJAS
WJVS WKWB WLWB WMAS WMBG
WNAC WOKO WORC WSJS

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

R — Thornton Fisher Sports News
KSD KYW WBEN WCAE WCSH
WEAF WEEL WFBR WGY WHO
WJAR WLW WMAQ WOW WRC
WTAG WTAM WTIC WWJ

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

C — Seconyland Sketches
WABC WDRG WEAN WGR WICC
WLWB WMAS WNAC WOKO WORC

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

R — Whispering Jack Smith, See Tues.

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

C — Victor Arden and Orchestra
CFRB CKAC CKLW WABC WBBM
WCAO WCAU WFBL WHK WJAS
WNAC WOKO

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

C — Roxy and His Gang
CFRB CKAC CKLW KDB KERN
KFBK KFPY KFRG KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KGIN KOL KOMA KRLD KSL
KTRH KTSB KVI KWG WABC
WBBM WBRB WCAO WCAU WCCO
WDOD WDRG WDSU WEAN WFBL
WFBM WGR WGST WHAS WHK
WIBW WJAS WJVS WKRC WLAC
WMT WNAC WOKO WORC WREC
WSPD

SATURDAY (Continued)

R — Swift Hour; Sigmund Romberg
KDYL KFI KGO KGW KHQ KOA
KOMO KPRC KSD KSTP KTBS
WBAP WBEN WCAE WCSH WDAF
WEAF WEBC WEEI WFBF WFI
WGY WJAX WJAZ WKY WLW
WMAQ WOAI WOW WRC WTAG
WTAM WTIC WTMJ WWJ

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

C — Robert Armbruster and Orchestra
CKLW KDB KERN KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KRLL KSL KVI
KWG KWKH WABC WADC WBBM
WBT WCAO WCAU WCCO WDRC
WEAN WFBL WFBM WGR WHAS
WHK WJAX WJWV WKRC WNAC
WOKO WOWO WSPD

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

R — Songs You Love
KFYR KSD KSTP WBEN WCAE
WCSH WDAF WDAY WEAF WEBC
WEEI WFBF WFI WGY WJAX
WJAZ WLW WMAQ WOV WRC
WTAG WTAM WTIC WTMJ WWJ

B — Radio City; Frank Black
KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KOMO KSO KWCR KWK
WBAL WBZ WBZA WCKY WGAR
WHAM WJR WJZ WLS WMAL
WREN WSYR

C — Chesterfield Program, see Monday

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

C — Richard Himber and Orchestra
CKLW KFH KMBC KMOX WAAB
WABC WADC WBBM WBNS WBT
WCAO WCAU WCCO WDRC WDSU
WEAN WFBL WFBM WGST WHK
WJAX WJWV WKBW WKRC WOKO
WSBT WSPD

R — Gibson Family Musical
KDYL KFI KFYR KGO KGW KHQ
KOA KOMO KSD KSTP WBEN
WCAE WCSH WDAF WDAY WEAF
WEBC WEEI WFBF WFI WGY
WJAX WJAZ WLW WMAQ WOW
WRC WTAG WTAM WTIC WTMJ
WWJ

B — National Barn Dance
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WGAR WHAM
WJR WJZ WKBF WLS WMAL
WREN WSYR

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

C — Minneapolis Symphony
CKLW KDB KERN KFAB KFBK
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLL KSL KVI KWG WAAB WABC
WADC WBBM WBT WCAO WCAU
WCCO WEAN WFBL WFBM WHAS
WHK WJAX WJWV WKBW WKRC
WLAC WMBG WOKO WORC WSPD

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

C — California Melodies
CFRB CKLW KDB KFH KGKO
KHJ KLRA KLZ KMBC KOH KOMA
KRLL KSCJ KTRH KTSa KVR
KWKH WAAB WABC WACO WADC
WALA WBIG WBT WCAO WCAU
WCCO WDAE WDBJ WDRC WDNC
WDOD WDRC WDSU WEAN WFBL
WFBM WFEA WGLC WGR WHFC
WHP WIBW WICG WISN WJAS
WJWV WKRC WLAC WLWB WLZ
WMAS WMBD WMT WNAX WNOX

WOKO WORC WPG WQAM WSBT
WSFA WSJS WSPD WTOG WWVA

R — Let's Dance
KFYR KPRC KSD KTBS KTHS
KVOO KYW WAVE WBAP WBEN
WCAE WCSH WDAY WEAF WEBC
WEEI WFEA WFBF WFLA WGY
WIBA WIOD WIS WJAZ WJAX
WJDX WKY WLW WMAQ WMC
WOAI WOW WRC WSB WSMB
WTAG WTAM WTAR WTIC WTMJ
WWJ WWNC

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

C — Richard Himber and Orchestra
KDB KERN KFBK KFPY KFRC
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KWG

B — National Barn Dance
KDYL KFI KGO KGW KHQ KOA
KOMO WAVE WJDX WLS WMC
WSB WSMB

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

C — Johnny Green and Orchestra
CKAC CKLW KLRA WAAB WABC
WBT WDAE WDBJ WDRC WDOD
WDRC WDSU WFBM WGLC WGR
WHFC WHP WIBW WJAX WJWV
WKRC WLAC WORC WQAM WSBT
WSFA WSJS WTOG

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

C — Cab Calloway and Orchestra
CKAC CKLW KDB KFH KGKO
KLRA KLZ KMBC KOH KOMA
KTRH KTSa KWKH WABC WBNS
WCAU WDRC WDRC WDOD WEAN
WFBL WFBM WGLC WHP WIBW
WICC WJWV WKBW WKRC WLAC
WLWB WNAC WNOX WOKO WPG
WQAM WSBT WTOG

SUNDAY

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

C — Salt Lake Tabernacle Choir
CKLW KFH KGKO KLRA KLZ
KOH KRLL KSCJ KSL KTRH
KTSa KWKH WABC WACO WADC
WALA WBBM WBMS WCCO WDAE
WDRC WDOD WDRC WDSU WEAN
WFBL WFBM WFEA WGLC WHK
WHP WIBW WICC WISN WJAX
WJWV WLAC WLWB WLZ WMAS
WMBD WMBR WMT WNAC WNAX
WNOX WOKO WORC WQAM WREC
WSFA WSPD

R — Major Bowes' Family

KDYL KFYR KOA KPRC KSTP
KTBS KVOO WAPI WCAE WDAF
WDAY WEAF WEBC WFAA WFBF
WFLA WGY WHO WIOD WJAZ
WJAX WKY WMAQ WMC WOAI
WOC WRC WRVA WSAI WSMB
WTAG WTAM WWNC

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

C — Tito Guizar
CKLW KMBC KMOX WABC WADC
WBBM WCAO WCAU WDRS WEAN
WFBL WFBM WGR WHAS WJAX
WJWV WKH WKRC WMAS WNAC
WOKO WORC WQAM WSPD

B — Radio City Symphony

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

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

C — Church of the Air
CFRB CKLW KFH KGKO KHJ
KLRA KLZ KOH KRLL KSCJ KSL
KTRH KTSa KWKH WAAB WABC
WACO WALA WBBM WBIG WBNS
WBT WCAO WCCO WDAE WDBJ
WDRC WDRC WDOD WDRC WDSU
WFBL WGLC WGR WHFC WHP
WIBW WJAX WJWV WKRC WLAC
WLWB WLZB WMBR WMT WNOX
WOKO WORC WPG WQAM WREX
WSBT WSFA WSJS WSPD WWVA

R — Dale Carnegie, Talks
WBEN WCAE WEAF WEEI WFBF
WFI WGY WJAZ WRC WSAI
WTAG WTAM WTIC WWJ

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

R — Miss Bab-o's Surprise
WBEN WCAE WCSH WDAF WEAF
WEEI WFBF WFI WGY WJAZ
WMAQ WOW WRC WSAI WTAG
WTAM WWJ

C — Little Jack Little

CKLW KMBC KMOX KRLL WABC
WADC WBBM WBT WCAO WCCO
WFBL WFBM WGR WHAS WHK
WJAX WJWV WKRC WWO

E-1:45 p.m., C-12:45, M-11:45, P-10:45

C — Pat Kennedy; Art Kessel
CFRB CKLW KDB KERN KFBK
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRLL
KSL KVI KWG WABC WBBM
WBNS WCAO WCAU WCCO WDSU
WFBM WGR WGST WHAS WHK
WJAX WJWV WKRC WMT WOWO
WSPD

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

C — Lazy Dan, Minstrel Man
CKLW KDB KERN KFAB KFBK
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLL KSL KVI KWG WABC WADC
WBBM WBNS WBT WCAO WCAU
WCCO WDBJ WDRC WDSU WEAN
WFBL WFBM WGST WHAS WHFC
WHK WIBW WJAX WJWV WKBW
WKRC WLAC WMBG WMT WNAC
WOWO

B — Anthony Frome; Poet Prince

KDKA KOIL KSO KWCR KWR
WBAL WBZ WBZA WENR WGAZ
WJR WJZ WMAL WREN WSYR

R — Immortal Dramas

KDYL KFI KFYR KGHL KGIR
KGW KHQ KOA KOMO KPO KSD
KSTP KTAR KVOO KYW WBEN
WCSH WDAY WEAF WEBC WEEI
WFBF WGY WHO WIBA WIOD
WJAZ WJAX WKY WMAQ WOW
WPTF WRC WSAI WTAG WTAM
WTAR WTIC WWJ WWNC

E-2:15 p.m., C-1:15, M-12:15, P-11:15

B — Becker's Chats About Dogs
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WGAR WJR
WJZ WLS WMAL WREN WSYR

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

C — Hammerstein's Music Hall
CKLW KDB KERN KFAB KFBK
KFPY KFRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KOMA
KRLL KSL KVI KWG WABC
WADC WBBM WBT WCAO WCAU
WCCO WDBJ WDRC WDSU WEAN
WFBL WFBM WGST WHAS WHFC
WHK WIBW WJAX WJWV WKBW
WKRC WLAC WMBG WMT WNAC
WOWO

SUNDAY (Continued)

B — Lux Program; Dramas

KDKA KDYL KFI KFJR KGO
KGW KHQ KOA KOIL KOMO KPRC
KSO KSTP KTBS KTHS KVOO
KWCR KWK WBAL WBZ WBZA
WDAY WBEW WFAA WGAR WHAM
WIBA WJR WJZ WKY WLW WMAL
WOAI WPTF WREN WRVA WSYR
WTAR

R — Swift Garden; Mario Chamlee

KSD KYW WCAE WCSH WDAF
WEEL WFBR WGY WJAR WMAQ
WOW WRC WSAI WTAG WTAM
WWJ

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

C — N. Y. Philharmonic Symphony
CFRB CEAC CKLW KFH KGKO
KHJ KLRA KLZ KOH KRLD KSCJ
KSL KTRH KTSB KVOR KWKH
WABC WACO WALA WBIG WBNS
WBT WCAO WCAU WCCO WDAE
WDBJ WDBO WDNC WDOD WDRC
WDSU WEAN WFBL WFBM WFEA
WGLC WGR WHEC WHK WHP
WIBW WICC WISN WJAZ WJSV
WKRC WLAC WLWB WLWB WMAS
WMBD WMBR WMN WTAC WOKO
WORC WQAM WREB WSBT WSPA
WSJS WSPD WTOG

R — Sally of The Talkies

WAPI WBN WCAE WCSH WDAF
WEAF WEEL WFBR WGY WHO
WJAR WJDX WLIT WMAQ WMC
WOC WOW WRC WSAI WSB WSM
WSMB WTAG WTAM WWJ

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

R — Penthouse Serenade
KDYL KFI KGO KGW KHQ KOA
KOMO KSD WBN WCAE WCSH
WDAF WEAF WEEL WFBM WGY
WHO WJAR WLIT WLW WMAQ
WOC WOW WRC WTAG WTAM
WTIC WWJ

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

Rev. Charles E. Coughlin
KSTP KWK WCAO WCAU WDRC
WEAN WFBL WFEA WGAR WGR
WHB WHO WICC WIND WJAZ
WJDX WJR WLWB WLW WMAS
WNAC WNBH WOC WOKO WOL
WOR WORC

R — Rhythm Symphony

KDYL KFI KGW KOA KOMO KPO
KPRC KTBS WAPI WAVE WBAP
WBN WCSH WDAF WEAF WBEW
WEEL WFBR WFLA WGY WIBA
WIOD WJAR WJAX WJDX WLIT
WMAQ WMC WOAI WPTF WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WTIC WWJ

B — Jolly Coburn and Orchestra

KDKA KOIL KSO KWCR WBAL
WBZ WBZA WCKY WENR WHAM
WJZ WKBF WMAL WREN WSYR

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

R — Harry Reser and Orchestra
CFRC CRCT KTBS KTHS KVOO
KYW WBAP WBN WCAE WCSH
WDAF WEAF WEEL WFBR WGY
WJAR WKY WMAQ WOAI WRC
WSAI WTAG WTAM WTIC WWJ

B — Morton Downey

KDKA KOIL KSO KWCR WBAL
WBZ WBZA WCKY WENR WHAM
WJZ WKBF WMAL WREN WSYR

E-4:45 p.m., C-3:45, M-2:45, P-1:45

R — Dream Drama
WBN WCAE WCSH WDAF WEAF
WEEL WFBR WFI WGY WJAR
WMAQ WRC WSAI WTAG WTAM
WTIC WWJ

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

C — Freddy Martin and Orchestra
CKLW KFH KLRA KLZ KMBC
KMOX KOMA KRLD KSL KTRH
KTSB KTUL WAAB WABC WADC
WBMM WBIG WBRC WBT WCAO
WCAU WCCO WDOD WDRC WDSU
WEAN WFBL WFBM WGR WGST
WHAS WHEC WHK WIBW WJAZ
WJSV WKBN WKRC WLAC WLWB
WMAS WMBG WOKO WORC WOWO
WREB WSPD

R — Sentinels Serenade

CFRC CRCT KDYL KFI KFJR
KGO KGW KHQ KOA KOMO WAVE
WBN WCAE WCSH WDAF WEAF
WBEW WEEL WFBR WFI WGY
WHO WIBA WJAR WKBF WMAQ
WMC WOC WOW WRC WSAI WSB
WSM WTAG WTAM WTIC WTMJ
WWJ

B — Roses and Drums

KDKA KOIL KPRC KSO KTHS
KWCR KWK WBAL WBAP WBZ
WBZA WENR WGAR WHAM WJR
WJZ WKY WLW WMAL WOAI
WREN WSYR

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

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

R — Tony Wons

CFRC CRCT KDYL KFI KFSD
KFYR KGW KHQ KOA KOMO KPO
KPRC KSD KSTP KTAR KTHS
KVOO KYW WAPI WAVE WBAP
WBN WCAE WCSH WDAF WDAY
WEAF WBEW WEEL WFBR WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKBF WKY WMAQ
WMC WOAI WOW WPTF WRC
WRVA WSAI WSB WSMB WTAG
WTAM WTAR WTIC WTMJ WWJ
WVNC

B — Cook Travelogues

KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WCKY WENR
WFI WGAR WHAM WJR WJZ
WMAL WREN WSYR

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

B — Terhune Dog Drama
KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KOMO KSO KWCR KWK
WBAL WBZ WBZA WENR WGAR
WHAM WJR WJZ WMAL WREN
WSYR

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

C — National Amateur Night
CFRB CKLW KDB KERN KFBC
KFPY KPRC KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KRLD
KSL KVI KWG WAAB WABC
WBMM WBNS WBT WCAO WCAU
WCCO WDRC WDSU WFBL WFBM
WGST WHAS WHEC WHK WJAZ
WJSV WKBW WKRC WOKO

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

C — Smilin' Ed McConnell
CKLW KDB KERN KFAB KFBC

KFPY KFRC KGB KHJ KLZ KMJ
KMOX KOIN KOL KRLD KSL KVI
KWG WAAB WABC WBMM WBNS
WBRC WBT WCAU WCCO WDRC
WDSU WEAN WFBL WFBM WFEA
WGST WHAS WHK WHP WICC
WISN WJAZ WJSV WKBW WKRC
WLAC WLWB WLWB WORC WQAM
WREB WWVA

R — Armco Iron Master

KPRC KSD KTBS KVOO WBAP
WBN WCAE WDAF WEAF WFBR
WGY WHO WKY WLIT WLW
WMAQ WOAI WOC WOW WRC
WTAM WWJ

B — Compana Grand Hotel

KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KOMO KSO KSTP KWCR
KWK WBAL WBZ WBZA WBEW
WENR WGAR WHAM WJR WJZ
WMAL WREN WSYR WTMJ

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

C — Voice of Experience
CKLW KMBC KMOX WAAB WABC
WBMM WBT WCAO WCAU WCCO
WDRC WEAN WFBL WHAS WHK
WJAZ WJSV WKBW WKRC WNAC
WOW WWVA

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

B — Jack Benny; Don Bestor
KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KOMO KPRC KSO KSTP
KWCR KWK WBAL WBAP WBZ
WBZA WBEW WGAR WHAM WIBA
WJDX WJR WJZ WKY WLW WLW
WMAL WMC WOAI WREN WSB
WSM WSMB WSYR WTMJ

C — Alexander Woolcott

KDB KERN KFBC KFPY KFRC
KGB KHJ KLZ KMBC KMOX
KOIN KOL KSL KVI KWG WABC
WBMM WCAO WCAU WCCO WDRC
WFBL WGR WHAS WHK WJAZ
WJSV WKRC WNAC WOKO

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

B — Joe Penner; Ozzie Nelson
KDKA KDYL KFI KFJR KGO
KGW KHQ KOA KOIL KOMO KPRC
KSO KSTP KTAR KVOO KWCR
KWK WBAL WBZ WBZA WDAY
WBEW WFAA WFLA WGAR WHAM
WIBA WIOD WJAX WJDX WJR
WJZ WKY WLS WMAL WMC WOAI
WPTF WREN WRVA WSB WSM
WSMB WSYR WTMJ

C — Gulf Headliners

CKLW KLRA KRLD KTRH KTSB
WABC WACO WADT WALA WBIG
WBNS WBRC WBT WCAO WCAU
WDAE WDBJ WDBO WDOD WDRC
WDSU WEAN WFEA WGST WHAS
WHEC WHK WJAZ WJSV WKRC
WLAC WLWB WMAS WMBG WMBR
WNAC WOC WORC WOWO WQAM
WREB WSPD WTOG

R — American Radiator Musical

WBN WCAE WCSH WEAF WFBR
WGY WJAR WMAQ WOW WRC
WSAI WTAG WTAM WWJ

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

R — Fitch Program; Wendell Hall
CFRC KSD WBN WCAE WCSH
WEAF WFBR WGY WHO WJAR
WKBF WLIT WMAQ WOC WOW
WRC WSAI WTAG WTAM WTIC
WWJ

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

C — Eddie Cantor
CKLW KDB KERN KFAB KFBC

SUNDAY (Continued)

KFPY KFRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KRLD KSL KTRH KTSB
KTUL KVI KWG WAAB WABC
WADC WBBM WBRC WBT WCAO
WCAU WCCO WDRC WDSU WEAN
WFBL WFBS WGR WGST WHAS
WHK WJAS WJSV WKRC WOKO
WOWO WSPD

R — Chase and Sanborn Hour

CFCF CRCT KDYL KFI KFYR
KGO KGW KHQ KOA KOMO KPRC
KSD KSTP KTAR KVOO WAPI
WAVE WBNB WBZ WBZA WCAE
WCSH WDAF WDAY WEAF WEBC
WFAA WFBR WFLA WGY WHO
WIOD WIS WJAR WJAX WJDX
WKY WLIT WLW WMAQ WMC
WOAI WOC WOW WPTF WRC
WRVA WSB WSM WSMB WTAG
WTAM WTIC WTMJ WWJ WTNB

B — General Motors Symphony

KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WCKY WGAR
WHAM WJR WJZ WLS WREN
WSYR

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

C — Club Romance

CKLW KDB KERN KFAB KFBK
KFPY KFRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOL
KOMA KRLD KSL KTRH KTSB
KTUL KVI KWG KWKH WABC
WBBM WBRC WBT WCAO WCAU
WCCO WDRC WDSU WEAN WFBL
WFBM WGR WGST WHAS WHK
WJAS WJSV WKRC WNAC WOKO
WOWO WREC WSPD

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

C — Ford Symphony

CFRB CKLW KDB KERN KFBK
KFH KFPY KFRC KGB KGKO
KHJ KLRA KLZ KMBC KMJ
KMOX KOH KOIN KOL KOMA
KRLD KSCJ KSL KTRH KTSB
KTUL KVI KVOB KWKH WABC

WACO WADC WALA WBBM WBIG
WBNS WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDBO WDNC
WDOB WDRG WDSU WEAN WFBL
WFBM WFEA WGLO WGR WGST
WHAS WHEC WHK WHP WIBW
WIBX WICC WISN WJAS WJSV
WKBH WKBN WKRC WLAC
WLWB WLWZ WMAZ WMBR WMT
WNAC WNAX WNOX WOKO WORC
WOWO WQAM WSBT WSFA WSJS
WSPD WTOC WWVA

R — Manhattan Merry-Go-Round

CFCF KDYL KFI KGO KGW KHQ
KOA KOMO KSD KSTP WDAF
WEAF WEBC WFBR WFI WGY
WHO WJAR WMAQ WOC WOW
WRC WSAI WTAG WTAM WTIC
WTMJ WWJ

B — Silken Strings; Charles Previn

KDKA KDYL KFI KGO KGW KHQ
KOA KOAI KOIL KOMO KPRC KSO
KSTP KWCR KWK WBAL WBAF
WBZ WBZA WEBC WGAR WHAM
WIBA WJR WJZ WKY WLS WLW
WMAL WREN WSYR WTMJ

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

R — Album of Familiar Music

CFCF CRCT KDYL KFI KGO
KGW KHQ KOA KOMO KPRC KSD
KSTP KVOO WBNB WCAE WCSH
WDAF WEAF WEEI WFAA WFBR
WFI WFLA WGY WHO WIOD WIS
WJAR WJAX WJDX WKY WMAQ
WMC WOAI WOC WOW WPTF
WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTMJ WWJ
WVNC

B — Walter Winchell

KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WENR WGAR
WHAM WJR WJZ WLW WMAL
WREN WSYR

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

B — Adventures of Sherlock Holmes

KDKA KOIL KSO KWCR WBAL
WBZ WBZA WCKY WENR WFIL

WGAR WHAM WJR WJZ WMAL
WREN WSYR

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

C — Wayne King, See Monday

R — Pontiac Program; Jane Froman

KDYL KFI KFSD KFYR KGHL
KQIR KGO KGW KHQ KOA KOMO
KPRC KSTP KTAR KTRH KTSB
WAPI WAVE WBAF WBNB WCAE
WCSH WDAF WDAY WEAF WEBC
WEEI WFBR WFI WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WJDX WKBF WKY WLW
WMAQ WMC WOAI WOC WOW
WPTF WRC WRVA WSB WSM
WSMB WSOQ WTAG WTAM WTIC
WTMJ WWJ WVNC

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

C — Dramatic Guild

OKAC CKLW KFH KGKO KHJ
KLRA KLZ KMBC KOH KRLD
KSCJ KTRH KTSB KVOB KWKH
WABC WACO WADC WALA WBIG
WBNS WBT WCAO WCAU WCCO
WDAE WDBJ WDBO WDNC WDOB
WDRG WDSU WEAN WFBL WFBM
WFEA WFLC WGR WHEC WHP
WIBW WICC WISN WJAS WJSV
WKRC WLAC WLWB WLWZ WMAZ
WMBD WMBR WMT WNAX WNOX
WOKO WORC WPG WQAM WREC
WSBT WSFA WSJS WSPD WTOC

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

C — Little Jack Little

CFRB CKAC CKLW KFH KGKO
KLRA KLZ KOH KRLD KSCJ
KTRH KTSB KVOB KWKH WABC
WACO WADC WBBM WBNS WBT
WCAO WCAU WCCO WDAE WDBJ
WDBO WDNC WDOB WDRG WDSU
WEAN WFBL WFEA WGLC WGR
WHEC WHK WHP WIBW WISN
WJAS WJSV WKRC WLAC WLWB
WLWZ WMAZ WMBD WMBR WMT
WNAC WNAX WNOX WOKO WORC
WPG WQAM WREC WSBT WSFA
WSJS WSPD WTOC

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

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

*These features are correct at the time of going to press,
but changes are being made daily.*

CONCERTS

Armed Iron Master, 8:30 p.m. Sunday, R
Chase and Sanborn, 8:00 p.m. Sunday, R
Ford Concert, 9:00 p.m. Sunday, C
General Motors Symphony, 8:00 p.m. Sunday, B
Andre Kostelanetz, 9:00 p.m. Mon., Wed. and Sat., C
Minneapolis Symphony, 10:00 p.m. Saturday, C
N. Y. Philharmonic, 8:00 p.m. Sunday, C
Radio City Music Hall, 12:30 p.m. Sunday, B
Swift Hour, 8:00 p.m. Saturday, R

DANCE BANDS

Victor Arden, 8:30 p.m. Wednesday; 7:30 p.m. Sat., C
Robert Armbruster, 8:45 p.m. Sat.. C; 8:15 p.m. Fri., B
Leon Belasco, 9:30 p.m. Friday, B; 11:30 p.m. Sunday;
11:15 p.m. Wed., C
Ben Bernie, 9:00 p.m. Tuesday, R
Don Bestor, 7:00 and 11:30 p.m. Sunday, B

Frank Black, 10:00 p.m. Sun.; 10:30 p.m. Fri., R; 9:00 p.m.
Sat., B
Cab Calloway, 12 Mid. Sat. and Sun., C
Jolly Coburn, 4:00 p.m. Sunday, B
Eddie Duchin, 9:30 p.m. Tuesday, R
Jan Garber, 8:00 p.m. Monday, B
Lud Gluskin, 9:30 p.m. Monday, C
Al Goodman, 8:30 p.m. Friday, B; 9:30 p.m. Monday, R
Glen Gray, 10:00 p.m. Tuesday; 9:00 and 11:30 p.m.
Thursday; 11:15 p.m. Mon., C
Johnny Green, 11:30 p.m. Tues. and Sat., C
Joe Haymes, 11:15 p.m. Tues., C
Lennie Hayton, 9:00 and 12:00 p.m. Wednesday, R
Richard Himber, 8:00 p.m. Monday, R; 9:30 and
11:00 p.m. Saturday, C
Isham Jones, 9:30 p.m. Tuesday, C
Art Kassel, 1:45 p.m. Sunday, C
Wayne King, 8:30 p.m. Tues. and Wed., R; 10:00 p.m.
Sunday and Monday, C

Let's Dance, 10:30 p.m. Saturday, R
Little Jack Little, 1:30 and 11:00 p.m. Sunday; 11:15 p.m. Thurs., C
Guy Lombardo, 10:00 p.m. Wednesday, R
Abe Lyman, 9:00 p.m. Friday, R; 8:30 p.m. Tuesday, C
Freddy Martin, 5:00 p.m. Sunday, C
Leon Navara, 6:00 p.m. Friday, C
Ozzie Nelson, 7:30 p.m. Sunday, B; 11:30 p.m. Wed.; 11:15 p.m. Friday, C
Red Nichols, 7:45 p.m. Thursday, B
Ray Noble, 10:30 p.m. Wednesday, R
Charles Previn, 9:00 p.m. Sunday, B
Leo Reisman, 8:00 and 11:30 p.m. Tuesday, R
Harry Reser, 4:30 p.m. Sunday, R
Freddie Rich, 10:00 p.m. Wednesday, C
Billard Robison, 7:15 p.m. Mon., Wed. and Fri., B
Leith Stevens, 10:30 p.m. Thursday, C
Phil Spitalny, 8:00 p.m. Thursday, C
Rudy Vallee, 8:00 p.m. Thursday, R
Fred Waring, 9:30 p.m. Thursday, C
Paul Whitman, 10:00 p.m. Thursday, R

DIALOG

Fred Allen, 9:00 and 12:00 p.m. Wednesday, R
Amos 'n' Andy, 7:00 and 11:00 p.m. daily, except Sat. and Sun., B
Phil Baker, 9:30 p.m. Friday, B
Jack Benny, 7:00 and 11:30 p.m. Sunday, B
Block and Sully, 9:30 p.m. Monday, C
Eddie Cantor, 8:00 p.m. Sunday, C
Easy Aces, 7:30 p.m. Mon., Tues. and Wed., R
George and Gracie, 9:30 p.m. Wednesday, C
Walter O'Keefe, 10:00 p.m. Tuesday; 9:00 and 11:30 p.m. Thursday, C
Jack Pearl, 10:00 p.m. Wednesday, C
Joe Penner, 7:30 p.m. Sunday, B
Ray Perkins, 6:00 p.m. Sunday, C
Pick and Pat, 9:30 p.m. Friday, R
Uncle Ezra, 7:45 p.m. Mon., Wed., Fri., R
Ed Wynn, 9:30 p.m. Tuesday, R

DRAMA

Billy Batchelor, 6:45 p.m. daily, except Sat. and Sun., R; 8:15 p.m. daily, except Sat. and Sun., C
Black Chamber, 7:15 p.m. Mon., Wed. and Fri., R
Dangerous Paradise, 7:45 p.m. Mon., Wed. and Fri., B
Red Davis, 7:30 p.m. Mon., Wed. and Fri., B
Death Valley Days, 9:00 p.m. Thursday, B
Dramatic Guild, 10:30 p.m. Sunday, C
Dream Drama, 4:45 p.m. Sunday, R
Eno Crime Clues, 8:00 p.m. Tuesday, B
First Nighter, 10:00 p.m. Friday, R
Grand Hotel, 6:30 p.m. Sunday, B
Sherlock Holmes, 9:45 p.m. Sunday, B
Immortal Dramas, 2:00 p.m. Sunday, R
Warden Lawes, 9:00 p.m. Wednesday, B
Lux Program, 2:30 p.m. Sunday, B
Myrt and Marge, 7:00 and 11:00 p.m. daily, except Sat. and Sun., C
The O'Neills, 7:30 p.m., Mon., Wed., Fri., C
Mary Pickford, 8:00 p.m. Wednesday, R
Princess Pat Players, 9:30 p.m. Monday, B
Irene Rich, 8:00 p.m. Friday, B
Buck Rogers, 6:00 and 7:30 p.m. Mon. to Thurs., Inc., C
Roses and Drums, 5:00 p.m. Sunday, B
Sally of the Talkies, 3:00 p.m. Sunday, R
The Shadow, 6:30 p.m. Mon. and Wed., C
Societyland Sketches, 7:00 p.m. Saturday, C
Terhune Dog Dramas, 5:45 p.m. Sunday, B
True Story Court, 8:30 p.m. Friday, C

POPULAR PROGRAMS

A & P Gypsies, 9:00 p.m. Monday, R
Album Familiar Music, 9:30 p.m. Sunday, R
American Radiator Musical, 7:30 p.m. Sunday, R
Miss Bab-o's Surprise, 1:30 p.m. Sunday, R
Major Bowes, 11:30 a.m. Sunday, R
California Melodies, 10:30 p.m. Saturday, C
Carefree Carnival, 8:30 p.m. Monday, B
Chesterfield Program, 9:00 p.m. Mon., Wed. and Sat., C

Cities Service Concert, 8:00 p.m. Friday, R
Club Romance, 8:30 p.m. Sunday, C
Contented Program, 10:00 p.m. Monday, R
Diane and Life Saver, 8:00 p.m. Mon. and Wed., C
Fleischmann Variety, 8:00 p.m. Thursday, R
Forum of Liberty, 8:30 p.m. Thursday, C
Gems of Melody, 7:15 p.m. Thursday, B
Gibson Family Musical, 9:30 p.m. Saturday, R
Gulf Headliners, 7:30 p.m. Sunday, C
Hammerstein's Music Hall, 2:30 p.m. Sunday, C
Otto Harbach Musical Show, 9:30 p.m. Monday, R
Hollywood Hotel, 9:30 p.m. Friday, C
Household Musical, 7:30 p.m. Tuesday, B
Lilac Time, 6:00 p.m. Saturday, C
Manhattan Merry-Go-Round, 9:00 p.m. Sunday, R
March of Time, 9:00 p.m. Friday, C
Maxwell House Show Boat, 9:00 p.m. Thursday, R
Molle Minstrels, 7:30 p.m. Thursday, R
Music Appreciation, 6:30 p.m. Tuesday, C
National Amateur Night, 6:00 p.m. Sunday, C
National Barn Dance, 9:30 and 11:00 p.m. Saturday, B
O'Flynn's Musical Drama, 10:30 p.m. Friday, C
Palmolive Beauty Box, 10:00 p.m. Tuesday, R
Penthouse Party, 8:00 p.m. Wednesday, B
Penthouse Serenade, 3:30 p.m. Sunday, R
Pontiac Program, 10:00 p.m. Sunday, R
Rhythm Symphony, 4:00 p.m. Sunday, R
Roxy and His Gang, 8:00 p.m. Saturday, C
Sentinels Serenade, 5:00 p.m. Sunday, R
Sinclair Minstrels, 9:00 p.m. Monday, B
Songs You Love, 9:00 p.m. Saturday, R
Swift Garden, 2:30 p.m. Sunday, R
Voice of Firestone, 8:30 and 11:30 p.m. Monday, R
Tony Wons, 5:30 p.m. Sunday, R

RELIGIOUS

Church of the Air, 1:00 p.m. Sunday, C
Salt Lake Choir, 11:30 a.m. Sunday, C

SINGERS

Mildred Bailey, 7:15 p.m. Mon., Wed., Fri., B
Lois Bennett, 8:30 p.m. Sunday, C
Richard Bonell, 9:00 p.m. Saturday, C
Lucrezia Bori, 9:00 p.m. Monday, C
Mario Chamlee, 2:30 p.m. Sunday, R
Mary Courtland, 8:45 p.m. Sat., C; 8:15 p.m. Friday, B
Bing Crosby, 9:00 p.m. Tuesday, C
Morton Downey, 4:30 p.m. Sunday; 7:15 p.m. Tuesday, B
Mary Eastman, 10:30 p.m. Wednesday, C
Ruth Etting, 7:45 p.m. Thursday, B
Jane Froman, 10:00 p.m. Sunday, R
Tito Gulzar, 12:30 p.m. Sunday, C
Wendell Hall, 7:45 and 11:00 p.m. Sunday, R
Annette Hanshaw, 10:00 p.m. Tuesday; 9:00 and 11:30 p.m. Thurs., C
Jackie Heller, 10:00 p.m. Monday, B
Pat Kennedy, 1:45 p.m. Sunday, C
Ralph Kirbery, 2:00 p.m. Sunday, R
Lazy Dan, 2:00 p.m. Sunday, C
Elizabeth Lennox, 8:30 p.m. Wednesday, C
Beatrice Lillie, 9:00 p.m. Friday, B
Everett Marshall, 8:30 p.m. Wednesday, C
Maxine, 8:00 p.m. Thursday, C
James Melton, 9:00 and 12:00 p.m. Wednesday, R
Mills Brothers, 9:00 p.m. Tuesday, C
Grace Moore, 9:00 p.m. Tuesday, B
Frank Munn, 9:30 p.m. Sunday; 9:00 p.m. Friday, R; 8:00 p.m. Tuesday, C
Joey Nash, 8:00 p.m. Mon., R; 9:30 and 11:00 p.m. Sat., C
Gertrude Niesen, 9:30 p.m. Monday, C
Donald Novis, 5:00 p.m. Sunday, C
Frank Parker, 9:00 p.m. Monday, R; 7:00 and 11:30 p.m. Sunday, B
Lilly Pons, 9:00 p.m. Wednesday, C
Virginia Rea, 9:30 p.m. Sunday, R
Lanny Ross, 9:00 p.m. Thursday, R; 8:30 and 11:30 p.m. Wednesday, B
Sanderson-Crumit, 6:30 p.m. Sunday, C
Mme. Schumann-Heink, 5:00 p.m. Sunday, R
Vivienne Segal, 9:00 p.m. Friday, R; 8:30 p.m. Tuesday, C

Mary Small, 1:30 p.m. Sunday, R
 Smilin' Ed McConnell, 6:30 p.m. Sunday, C
 Kate Smith, 8:30 and 11:30 p.m. Monday, C
 Gladys Swarthout, 8:30 and 11:30 p.m. Sunday; 10:00 p.m. Tuesday, R
 Conrad Thibault, 9:00 p.m. Thurs., R; 8:30 p.m. Sun., C
 John Charles Thomas, 9:30 p.m. Wednesday, B
 Lawrence Tibbett, 8:30 p.m. Tuesday, B
 Vera Van, 5:00 p.m. Sunday, C
 Whispering Jack Smith, 7:15 p.m. Tues., Thur. and Sat., R

TALKS
 Becker's Dog Chats, 2:15 p.m. Sunday, B
 Dale Carnegie, 1:00 p.m. Sunday, R
 Boake Carter, 7:45 p.m. daily, except Sat. and Sun., C
 Cook Travelogues, 5:30 p.m. Sunday, B
 Rev. Charles E. Coughlin, 4:00 p.m. Sunday
 Eddie Dooley, 6:30 p.m. Saturday, C

Jimmy Fidler, 10:00 p.m. Wednesday, B
 Thornton Fisher, 6:45 p.m. Saturday, R
 Health Talks, 10:30 p.m. Monday, C
 Mark Hellinger, 8:00 p.m. Wednesday, B
 Edwin C. Hill, 8:15 and 11:15 p.m. Mon., Wed., Fri.; 8:30 p.m. Thursday, C
 H. V. Kaltenborn, 6:30 p.m. Friday, C
 John B. Kennedy, 8:30 p.m. Tues; 10:30 p.m. Wed.; 9:00 p.m. Sat., B
 Mrs. Franklin D. Roosevelt, 8:00 p.m. Friday, C
 Madame Sylvia, 10:15 p.m. Wednesday, B
 Lowell Thomas, 6:45 p.m. daily, except Sat. and Sun., B
 Voice of Experience, 6:45 p.m. Sunday; 11:30 p.m. Wednesday, C
 Walter Winchell, 9:30 and 11:15 p.m. Sunday, B
 Alexander Woolcott, 7:00 p.m. Sunday, C

If you are interested in receiving foreign stations you should have the RADEX Radio Map of the World with Time-Converting Dial. Just set the dial for the time in your zone and instantly the time for all other places in the world is shown. Price 25c. (26c in Ohio)

KEY TO SYMBOLS

As Shown in the Index by
 Frequencies and Dial Numbers

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

Second Column Symbols

- a Verifies reception for return postage.
- b Verifies only occasionally.
- c Does not verify.
- d Verification 10c; letter 25c.
- e Sends Ekko stamp for 10c.
- f Sends Ekko stamp for 5c.
- g Sends Ekko stamp for postage.
- h Sends own station stamp for 10c.
- i Sends own station stamp for 5c.
- j Sends own station stamp for postage.
- k Has no stamps.
- m Verifies for 5c.
- x No information available.

Fourth Column Symbols

- A American Broadcasting System.

- B National "Blue" network.
- C Columbia network
- D Day time only.
- Dn Day time with occasional evening hours.
- F Canadian Radio Brdctg. Commission.
- N National "Red" and "Blue" networks.
- P Has construction permit only.
- R National "Red" network.
- S Sunday only.
- Sy Synchronized.
- X Has permit to increase power.
- Y Has permit to change location.
- Z Has permit to change frequency.
- a-b-c. Small letters show stations using same transmitter.
- 1-2-3. Figures denote stations sharing time.
- No information.

Time on the Air

The time is given in accordance with the "24-hour clock." Noon is always 12:00, but midnight may be either 0:00 or 24:00. To change to time of your own clock, subtract twelve. Thus, 18:00-24:00 is 6:00 p. m. to midnight. 23:00-0:30 is 11:00 p. m. to 12:30 a.m. A signifies Atlantic Standard Time (AST). E is Eastern Standard Time (EST). C is Central Standard Time (CST). P is Pacific Standard Time (PST). L is Local Standard Time (LST).

INDEX BY FREQUENCIES AND DIAL NUMBERS

With Monday's and Tuesday's Time on the Air

KCYS.

600

DIAL

540 kilocycles 555.2 meters

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CJRM	ak	1000	F	Moose Jaw, Sask.	M-7-23
XEAF	z	250	Nogales, Son.	M-

550 kilocycles 545.1 meters

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CFNB	ak	500	F	Fredericton, N. B.	A-8-10-24
KFUO	ae	500	2 (1)	St. Louis, Mo.	C-7-8; 12-15-12:40; 15-15:40; 22-23
KFYR	ae	1000	N (5)	Bismarck, N. D.	C-7-24
KOAC	ak	1000	.....	Corvallis, Ore.	P-9-22
KSD	ak	1000	2R (5)	St. Louis, Mo.	C-8-12:15; 12:40-15; 15:40-24
KTSA	ak	1000	C (5)	San Antonio, Texas	C-7-14; 15-23:30
TISO	ak	250	.....	San Jose, C. R.	C-
WDEV	ae	500	D	Waterbury, Vt.	E-7:30-10; 11:30-14; 15-19
WGR	ak	1000	C	Buffalo, N. Y.	E-7:30-24
WKRC	ak	1000	C (2.5)	Cincinnati, Ohio	E-7-1
WSVA	z	500	DP	Staunton, Va.	E-.....

560 kilocycles 535.4 meters

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KFDM	ak	500	(1)	Beaumont, Texas	C-7:15-14; 16-22
KLZ	ae	1000	C (2.5)	Denver, Colo.	M-6:45-23:30
KTAB	ak	1000	.....	San Francisco, Calif.	P-7-1
KWTO	ak	1000	D	Springfield, Mo.	C-6-17:45
TGW	ak	1000	565	Guatemala City	C-12-14:30; 18:30-19:30; 21-23
WFIL	ae	1000	B	Philadelphia, Pa.	E-
WIND	ak	1000	(2.5) A	Gary, Ind.	C-7-1
WIS	ae	1000	N (2.5)	Columbia, S. C.	E-8-24
WOAM	ae	1000	C	Miami, Fla.	E-7:30-24
XEAO	ak	250	(.15)	Mexicali, B. C.	P-8-22

570 kilocycles 526.0 meters

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KGKO	ak	500	C (1)	Wichita Falls, Texas	C-7:30-23:30
KMTR	ak	500	Hollywood, Calif.	P-6:45-23:30
KVI	ak	1000	.....	Tacoma, Wash.	P-6-24
WKBN	ae	500	1C	Youngstown, Ohio	E-7:30-9; 11-13; 15-24
WMCA	ak	500	A	New York, N. Y.	E-7-1
WNAX	ak	1000	C (5)	Yankton, S. D.	C-6-24
WOSU	ak	750	1 (1)	Columbus, Ohio	E-9-11; 19-23:30
WSYR	ak	250	B	Syracuse, N. Y.	E-7:30-1
WWNC	ae	1000	N	Asheville, N. C.	E-7:30-0:30

580 kilocycles 516.9 meters

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CHRC	ak	100	F	Quebec, Que.	E-9-0:30
CKGL	ae	100	F	Toronto, Ont.	E-8-23:30
CKUA	ak	500	Edmonton, Alta.	M-13-14:15; 19-21
KMJ	ak	500	C	Fresno, Calif.	P-7-24
KSAC	ak	500	2 (1)	Manhattan, Kans.	C-9:30-10:30; 12:30-14; 16:30-17:30
WCHS	ak	500	(1)	Charleston, W. Va.	E-7-23
WBBO	ae	1000	C	Orlando, Fla.	E-7:30-24
WIBW	ak	1000	C2 (5)	Topeka, Kans.	C-6:9:30; 10:30-12:30; 14-16:30; 17:30-24
WTAG	ae	500	R (1)	Worcester, Mass.	E-8-24

590 kilocycles 508.2 meters

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KHQ	ak	1000	N (2.5)	Spokane, Wash.	P-6:45-24
WEI	ak	1000	R	Boston, Mass.	E-
WKZO	ae	1000	D	Kalamazoo, Mich.	E-7:30-18
WOW	ae	1000	R (5)	Omaha, Neb.	C-6:30-0:30
XEPN	ak	50000	PiedrasNegras, Coah.	C-5-24

600 kilocycles 499.7 meters

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CFCF	ae	400	Montreal, Que.	E-8-24
CJOR	ak	500	Vancouver, B. C.	P-7:30-23:15
CRCW	z	1000	F	Windsor, Ont.	E-.....
FOZ	z	250	609	St. Pierre, Miquelon	L-Silent
KFSO	ae	1000	N	San Diego, Calif.	P-7-24
WCAC	ak	500	2	Storrs, Conn.	E-12:30-13; 19-20
WCAO	ae	500	C (1)	Baltimore, Md.	E-7-24
WCC	ae	500	2 C (1)	Bridgeport, Conn.	E-7:45-12:30; 13-1
WMT	af	1000	C (2.5)	Waterloo, Iowa	C-7-24
WREC	ak	1000	C (2.5)	Memphis, Tenn	C-7-24

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With Monday's and Tuesday's Time on the Air

610 kilocycles 491.5 meters

CMCF	ak	250	Havana, Cuba	E-12-14; 18-20; Tues., 21-23
KFCR	ak	1000	C (5)	San Francisco, Calif.	P-7-24
WDAF	ak	1000	R (5)	Kansas City, Mo.	C-6:30-24
WIP	ae	1000	A	Philadelphia, Pa.	E-7-1
WJAY	ae	500	A	Cleveland, Ohio	E-6-18:30
XFX	ak	500	.....	Mexico City, D. F.	C-7-12; 16:30-22:30

620 kilocycles 483.6 meters

KGW	ak	1000	N (5)	Portland, Ore.	P-7-24
KTAR	ae	1000	N	Phoenix, Ariz.	M-7-23:15
WFLA	ae	1000	Na	Clearwater, Fla.	E-7:30-24
WHJB	ak	250	(.5)	Greensburg, Pa.	E-7-sunset
WLBZ	ak	500	C (1)	Bangor, Maine	E-8-24
WSUN	ae	1000	Na (1)	St. Petersburg, Fla.	E-7:30-24
WTMJ	ae	1000	N (5.)	Milwaukee, Wis.	C-6:45-0:30

630 kilocycles 475.9 meters

CFCY	ae	1000	F	Char't'w'n, P.E.I.	A-12-13:30; 18-23:30
CJGX	ak	500	F	Yorkton, Sask.	C-8:30-9:15; 10:30-12; 19:30-21:30
CKOV	ak	100	F	Kelowna, B. C.	P-8-10; 11:30-13:30; 17:30-22:30
CMBY	z	250	635	Havana, Cuba	E-.....
KFRU	ak	500	1(1)	Columbia, Mo.	C-6-9; 16-sunset; 19-21; Mon. to 24
KGFX	ak	200	D	Pierre, S. D.	C-9:30-sunset
WGFB	ae	500	1	Evansville, Ind.	C-7-19; Tues. to 23
WMAL	ak	250	B (.5)	Washington, D. C.	E-6:45-1
WOS	ak	500	1D	Jefferson City, Mo.	C-9-16
WPRO	ak	250	A	Providence, R. I.	E-8-1:15
XEZ	z	500	..	Merida, Yuc.	C-

640 kilocycles 468.5 meters

KFI	ak	50000	N	Los Angeles, Calif.	P-6:30-24
WAIU	ae	500	.....	Columbus, Ohio	E-6:15-17:30
WOI	ae	5000	D	Ames, Iowa	C-6:45-17
XEOX	ak	250	Saltillo, Coah.	C-.....

650 kilocycles 461.3 meters

WSM	ae	50000	N	Nashville, Tenn.	C-6:30-24
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660 kilocycles 454.3 meters

WAAW	ak	500	D	Omaha, Neb.	C-6-18:15
WEAF	ak	50000	R	New York, N. Y.	E-6:45-1

670 kilocycles 447.5 meters

WMAQ	ck	50000	N	Chicago, Ill.	C-7-1
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680 kilocycles 440.9 meters

CMAF	ak	1000	Havana, Cuba	E-17:30-23
CMCQ	z	1000	Havana, Cuba	E-.....
KFEQ	ae	2500	D	St. Joseph, Mo.	C-6-17:45
KPO	ak	50000	N	San Francisco, Calif.	P-7:30-24
RDN	z	500	.....	San Salvador, E. S.	L-
VAS	ak	2000	685	Glace Bay, N. S.	A-23-23:10; 0-0:10
VOWR	ck	500	681	St. John's, Nfld.	L-11-18:30
WPTF	ae	5000	DnN	Raleigh, N. C.	E-7:30-sunset

690 kilocycles 434.5 meters

CFRB	ae	10000	C	Toronto, Ont.	E-8-0:30
CJGJ	ak	100	F	Calgary, Alta.	M-.....
NAA	ak	1000	.....	Arlington, Va.	E-10:10-10:15; 11:55-12; 21:55-22
XET	ck	500	Monterrey, N. L.	C-12-14; 16-22

700 kilocycles 428.3 meters

WLW	ak	500000	N	Cincinnati, Ohio	E-6:30-3
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710 kilocycles 422.3 meters

KMPC	ae	500	Dn	Beverly Hills, Calif.	P-6:45-0:30
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KPCB	ae	250	Seattle, Wash.	P-5:30-sunset; 22-4
TIFB	z	30	714	San Jose, C. R.	C-6-10
WOR	ak	5000	X	Newark, N. J.	E-6:45-0:30
XEN	ak	1000	711	Mexico City, D. F.	C-9-12; 13-16; 17-24

720 kilocycles 416.4 meters

CMK	ae	3150	725	Havana, Cuba	E-11-13; 19-24
WGN	ck	50000	.....	Chicago, Ill.	C-7-1:30; Mon. to 2

730 kilocycles 410.7 meters

CFPL	ak	100	F	London, Ont.	E-8:15-10:30; 12-13:30; 17-23:30
CJCA	ah	1000	F	Edmonton, Alta.	M-7:30-14; 15:30-23
CKAC	ak	5000	G	Montreal, Que.	E-7:30-1
XEBC	ak	5000	.....	Agua Caliente, L. C.	P-.....

740 kilocycles 405.2 meters

KMMJ	ae	1000	D	Clay Center, Neb.	C-5-18
KTRB	ak	250	D	Modesto, Calif.	P-.....
WHEB	ak	250	D	Portsmouth, N. H.	E-8-13:30; 15:15-18
WSB	ah	5000	N	Atlanta, Ga.	C-6:55-24
XELC	z	100	.....	Mexico City, D. F.	C-

750 kilocycles 399.8 meters

CMCW	dk	150	755	Havana, Cuba	E-12-18; 1-3
KGU	aj	2500	N	Honolulu, T. H.	L-6:30-22:30
WJR	ak	10000	B	Detroit, Mich.	E-6-24

760 kilocycles 394.5 meters

KXA	ae	250	(.5)	Seattle, Wash.	P-.....
WBAL	ae	10000	BSy	Baltimore, Md.	E-21-24
WEW	ae	1000	D	St. Louis, Mo.	C-8-17
WJZ	ck	50000	BSy	New York, N. Y.	E-8-1

770 kilocycles 389.4 meters

CMBS	ak	150	775	Havana, Cuba	E-10-12; 15:30-18
KFAB	ae	5000	CSy	Lincoln, Neb.	C-6-17:45; 20:30-21:30; 22-24
WBBM	ae	25000	CSy	Chicago, Ill.	C-6:50-2:15

780 kilocycles 384.4 meters

CHWK	ak	100	F	Chilliwack, B. C.	P-12-13:30; 18-22:30
CKSO	z	1000	F	Sudbury, Ont.	E-.....
KELW	ae	500	2	Burbank, Calif.	P-10-13; 17-20; 4-6
KFDY	ak	1000	D	Brookings, S. D.	C-12:30-14
KFOD	ck	250	.....	Anchorage, Alaska	L-18-24
KGHL	ak	1000	N (2.5)	Billings, Mont.	M-8-23
KTM	ak	500	2 (1)	Los Angeles, Calif.	P-6-10; 13-17; 20-4
WEAN	ae	500	C (.25)	Providence, R. I.	E-7:30-1
WMC	aj	1000	N (2.5)	Memphis, Tenn.	C-7-24
WTAR	ae	500	N (1)	Norfolk, Va.	E-7-24
XEYZ	z	10000	.....	Mexico City, D. F.	C-10-23

790 kilocycles 379.5 meters

CMJK	ak	150	.....	Camaguey, Cuba	E-11:30-12:30; 17-23
KGO	ak	7500	N	San Francisco, Calif.	P-7-24
WGY	ak	50000	R	Schenectady, N. Y.	E-6:45-1

800 kilocycles 374.8 meters

TIGP	z	75	.....	San Jose, C. R.	C-.....
WBAP	ak	50000	Na	Fort Worth, Tex.	C-8:30-10:30; 12:30-15; 17:30-18:30; 22-24
WFAC	ak	50000	Na	Dallas, Tex.	C-6:45-8:30; 10:30-12:30; 15-17:30; 18:30-22
WTBO	ae	250	D	Cumberland, Md.	E-6-19:15

810 kilocycles 370.2 meters

WCCO	ae	50000	C	Minneapolis, Minn.	C-7-24
WNYC	ak	1000	N	New York, N. Y.	E-10-19:30
XFC	z	350	Aguascalientes, Ags.	C-.....

KCYS.
800
DIAL

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820 kilocycles 365.6 meters

WHAS aj 5000 C Louisville, Ky.
XETW dk 500 Mexico City, D. F.

C-7-24
C-12-24

830 kilocycles 361.2 meters

CMC ae 500 835 Havana, Cuba
KOA ak 5000 N Denver, Colo.
TIVL z 30 835 San Jose, C. R.
WEEU ak 1000 D Reading, Pa.
WHDH ae 1000 Dn A Boston, Mass.
WRUF ae 5000 Dn Gainesville, Fla.

E-10:30-11:30; 20-23
M-7-24
A-10-11; 15-16
E-8-17:30
E-7-sunset in Denver
E-8-20

840 kilocycles 356.9 meters

CFQC ak 1000 F Saskatoon, Sask.
CMO z 5000 Havana, Cuba
CRCT ak 5000 F Toronto, Ont.
VOGY ak 400 St. John's, Nfld.
XEP z 500 Mexico City, D. F.
XEXX z 500 845 Mexico City, D. F.

M-8-13:30; 17:30-23
E-6:55-1
E-6:45-24
L-10-11:30; 13-14:30; 18-21
C-10-23
C-10-23

850 kilocycles 352.7 meters

KIEV aj 250 D Glendale, Calif.
WWL ae 10000 New Orleans, La.
WWPA z 250 DP Clarion, Pa.

P-6-18
C-7-24
E-.....

860 kilocycles 348.6 meters

CMCX z 150 865 Havana, Cuba
WABC ae 5000 C New York, N. Y.
WHB ae 1000 D Kansas City, Mo.
XEMO ak 2500 865 Tijuana, B. C.

E-.....
E-7:30-1:30
C-6-18:30
P-.....

870 kilocycles 344.6 meters

WENR ak 50000 Na Chicago, Ill.
WLS ae 50000 Na Chicago, Ill.

C-10:15-11:45; 15:30-19
C-6-10:15; 11:45-15:30; 19-20:30

880 kilocycles 340.7 meters

CFJC ak 100 F Kamloops, B. C.
CRCO ak 1000 F Ottawa, Ont.
KFKA ak 500 2 (1) Greeley, Colo.
KLX ae 1000 Oakland, Calif.
KPOF ak 500 2 Denver, Colo.
WCOC ae 500 (1) Meridian, Miss.
WGBI ae 500 1 Scranton, Pa.
WPHR z 500 D Petersburg, Va.
WQAN ae 250 1 Scranton, Pa.
WSUI ae 500 (1) Iowa City, Iowa

P-7:30-10:30; 12-14; 18-21
E-8-9; 12-14; 17:45-24
M-6-7:30; 9-14:30; 16:30-18; 21:30-24
P-8-23
M-7:30-9; 14:30-16:30; 19:30-21
C-7:30-14; 17-22:30
E-9:30-12:30; 13:30-16:30; 17:30-22:30
E-
E-12:30-13:30; 16:30-17:30; Tues. 20-23
C-9-10; 11-12:30; 14-16; 18-22; Tues., 0-4

890 kilocycles 336.9 meters

CJIC z 100 D S. Ste. Marie, Ont.
KARK ak 250 (.5) Little Rock, Ark.
KFNF ak 500 2 (1) Shenandoah, Iowa
KUSD ae 500 2 Vermillion, S. D.
WBAA ak 1000 D W. Lafayette, Ind.
WGST aeh 250 C (1) Atlanta, Ga.
WILL ak 250 2 (1) Urbana, Ill.
WJAR ae 500 R Providence, R. I.
WMMN ae 250 (.5) Fairmont, W. Va.
XEW ak 5000 Mexico City, D. F.

E-8:30-9:30; 11-13:30; 16:30-18
C-7-22
C-5:30-8; 11-16; 18-21
C-16-17; Mon. 21-22
C-11-12; 12:30-14; 16-17
C-7-24
C-8-11; 17-18
E-8-1
E-9-21:30
C-.....

900 kilocycles 333.1 meters

CMX ae 1000 905 Havana, Cuba
KGA ak 1000 N (2.5) Spokane, Wash.
KGBU ak 500 Ketchikan, Alaska
KHJ ae 1000 C (5) Los Angeles, Calif.
KSEI ck 250 (.5) Pocatello, Idaho
WBEN ae 1000 R Buffalo, N. Y.
WJAX aeh 1000 N Jacksonville, Fla.
WKY ae 1000 N Oklahoma City, Ok.

E-12-14; 20-23
P-6-24
L-.....
P-7-1
M-7:3-23
E-6:45-24
E-7-1
C-6:45-24

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WBLB	ak	2500	D	Stevens Point, Wis.	C-8-16
WMFI	z	500	DP	New Haven, Conn.	E-

910 kilocycles 329.6 meters

CJAT	ak	250	F	Trail, B. C.	P-8-22:30
CMHW	z	100	.....	Cienfuegos, Cuba	E-11-13; 18:30-21:30; Tues. 3-4
CRCM	ak	5000	F	Montreal, Que.	E-.....
TIGR	z	75	911	San Jose, C. R.	C-16:30-22
XENT	ck	60000	.....	Nuevo Laredo, Tams.	C-18-1

920 kilocycles 325.9 meters

HHK	ae	1000	.....	Port-au-Prince, Haiti	E-Silent
KFEL	ak	500	2	Denver, Colo.	M-6-8:30; 10-12:30; 15-16:30; 18-19:30; 21-24
KOMO	ak	1000	N	Seattle, Wash.	P-7-24
KPRC	ae	1000	N (5)	Houston, Texas	C-6:30-24
KVOD	ak	500	2	Denver, Colo.	M-8:30-10; 12:30-15; 16:30-18; 19:30-21
WAAF	ak	500	D	Chicago, Ill.	C-6-Sunset
WBSO	ae	500	D	Babson Park, Mass.	M-8:30-16:30
WPEN	ak	250	(.5) 1	Philadelphia, Pa.	E-7:30-22
WRAX	ak	250	1 (.5)	Philadelphia, Pa.	E-7:30-22
WSPA	ae	1000	D	Spartanburg, S. C.	E-5:30-22
WWJ	ak	1000	R(5)	Detroit, Mich.	E-7-24
XEAA	z	200	.....	Mexicali, B. C.	P-12-14; 18-20
XEFE	z	250	.....	Nuevo Laredo, Tams.	C-

**KCYS.
970
DIAL**

930 kilocycles 322.4 meters

CFAC	ak	100	F	Calgary, Alta.	M-7:30-22:30
CFCH	ak	100	F	North Bay, Ont.	E-12-13:30; 17:30-23:30
CFLC	ae	100	.....	Prescott, Ont.	E-8-10; 12-14; 17-19:30
CHNS	ae	1000	F	Halifax, N. S.	A-10:30-13:30; 18-24
CKPC	ak	100	F	Brantford, Ont.	E-7-24
CKPR	ak	100	F	Fort William, Ont.	E-.....
CMJF	z	200	.....	Camaguey, Cuba	E-.....
CMW	ak	1400	.....	Havana, Cuba	E-.....
KGBZ	ak	1000	2 (2.5)	York, Neb.	C-5-6; 7:30-9; 11-12:30; 14-15:30; 17-18:30; Tues. 20:30-24
KMA	ak	1000	2 (2.5)	Shenandoah, Iowa	C-6-7:30; 9-11; 12:30-14; 15:30-17
KROW	ak	500	(1)	Oakland, Calif.	P-7-1
WBRC	ak	1000	C	Birmingham, Ala.	C-7-23
WDBJ	ae	1000	C	Roanoke, Va.	E-8-24

940 kilocycles 319.0 meters

CMKM	z	100	.....	Manzanillo, Cuba	E-.....
KOIN	ak	1000	C (5)	Portland, Ore.	P-6:30-24
VOAS	ak	100	.....	St. John's, Nfld.	L-11-12:30; 16-17:30
WAAT	ae	500	D	Jersey City, N. J.	E-6:30-18
WAVE	ak	1000	N	Louisville, Ky.	C-7-24
WCSH	ae	1000	R (2.5)	Portland, Maine	E-8-24
WDAY	ae	1000	N (5)	Fargo, N. D.	C-7-24
WHA	ak	2500	D	Madison, Wis.	C-8-Sunset
XEFO	ak	5000	.....	Mexico City, D. F.	C-11-15; 18-24

950 kilocycles 315.6 meters

CMGD	ah	500	955	Havana, Cuba	E-12-23:30
CMHD	dk	250	.....	Caibarien, Cuba	E-20-21
CRCS	ak	100	F	Chicoutimi, Que.	E-18; 15-23
KFWB	ak	1000	(2.5)	Hollywood, Calif.	P-7-23:30
KHSL	z	250	DP	Chico, Calif.	P-
KMBC	ae	1000	C (2.5)	Kansas City, Mo.	C-6:25-24
VONF	ak	5000	.....	St. John's, Nfld.	L-12-14; 18-21
WRC	ae	500	R (1)	Washington, D. C.	E-6:30-1

960 kilocycles 312.3 meters

CKY	ak	15000	F	Winnipeg, Man.	C-8:30-14; 16-24
CMJL	z	50	.....	Camaguey, Cuba	E-.....
XEAM	z	50	.....	Nuevo Laredo, Tams.	C-
XEAW	ak	10000	.....	Reynosa, Tams.	C-17-1

970 kilocycles 309.1 meters

CMGF	ak	100	971.5	Matanzas, Cuba	E-15-17; 20-22:30
KJK	z	5000	N	Seattle, Wash.	P-7:30-24
WCFL	ae	1500	B	Chicago, Ill.	C-7-24
WIBG	ak	100	D	Glenside, Pa.	E-6-Sunset

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980 kilocycles 303.9 meters

KDKA bk 50000 B

Pittsburgh, Pa.

E-7-1

990 kilocycles 302.8 meters

WBZ ak 50000 BSy
WBZA ak 1000 BSy
XEK ak 100
XES dk 250

Boston, Mass.
Springfield, Mass.
Mexico City, D. F.
Tampico, Tams.

E-7-1
E-7-1
C-11-16; 18-2
C-9:30-14:30; 17-22

1000 kilocycles 299.8 meters

CMBZ ak 100 1005
KFVD ak 250 Dn
WHO ak 50000 R

Havana, Cuba
Los Angeles, Calif.
Des Moines, Iowa

E-Mon. 12-18; Tues. 7-12; 18-24
P-6:30-Sunset; 22-24
C-7-24

1010 kilocycles 296.9 meters

CHML aei 50 F
CHWC ak 500 3F
CKCD ak 100
CKCK ak 500 3F
CKCO z 100
CKIC ak 50
CKWX ak 100 F
CMJO ak 50
KGGF ak 1000 2
KOW ae 1000
TIGA z 30 1014
WHN ae 1000
WNAD ae 1000 2 (1)
WNOX ak 1000 C (2)

Hamilton, Ont.
Regina, Sask.
Vancouver, B. C.
Regina, Sask.
Ottawa, Ont.
Wolfville, N. S.
Vancouver, B. C.
Ciego de Avila, Cuba
Coffeyville, Kans.
San Jose, Calif.
Cartago, C. R.
New York, N. Y.
Norman, Okla.
Knoxville, Tenn.

E-8-13:30; 16:30-23
M-7-9; 10-11; 12-13; 15:30-23
P-7:30-23:30
M-9-10; 11-12; 13-15:30; Tues. 17:30-23
E-6-23
A-12-13; 18-19; Mon. 20-21
P-7-19:30
E-9-13; 18-22
C-Mon. 7-14; 17-20:30; Tues. 7-19:15
P-6:30-22
C-.....
E-7:30-1
C-Mon. silent; Tues. 19:15-21:15
C-6:45-24

1020 kilocycles 293.9 meters

KYW ak 10000 R
XEJ ak 1250

Philadelphia, Pa.
Juarez, Chih.

E-6:45-1
C-10-14; 17-23:30

1030 kilocycles 291.1 meters

CFCN ak 10000 F
CKLW ae 5000 C
CMBC de 150 1035
CMHI ak 150 1037
CMKC z 150 1034
XEB ak 10000

Calgary, Alta.
Windsor, Ont.
Havana, Cuba
Santa Clara, Cuba
Santiago, Cuba
Mexico City, D. F.

M-.....
E-6:45-1
E-.....
E-11-12; 20-21
E-.....
C-9-24

1040 kilocycles 288.3 meters

CMGH ak 15
KRLD ae 10000 C
KWJJ ak 500
WKAR ak 1000 D
WTIC ak 50000 R

Matanzas, Cuba
Dallas, Texas
Portland, Ore.
East Lansing, Mich.
Hartford, Conn.

E-14-15; 17-18; 19:30-20:30
C-6:30-24
P-6-Sunset; 21-3:15
E-12-12:30; 14-15
E-7-24

1050 kilocycles 285.5 meters

CFCO ak 100 F
CMJG z 50
CRCK z 1000 F
KFBI ak 5000 Dn
KNX ak 50000

Chatham, Ont.
Camaguey, Cuba
Quebec, Que.
Abilene, Kans.
Hollywood, Calif.

E-7:30-9; 11-13:30; 17-23
E-.....
E-.....
C-5-19:30
P-7-23:30

1060 kilocycles 282.8 meters

CMCB ak 150
KTHS ae 10000 N
WBAL ae 10000 B
WJAG ak 1000 D
XEA ak 125

Havana, Cuba
Hot Springs, Ark.
Baltimore, Md.
Norfolk, Neb.
Guadalajara, Jal.

E-13-16; 20-24
C-7-24
E-7-21
C-7-Sunset
C-8:30-9; 18-23

1070 kilocycles 280.2 meters

KJBS ak 500 Dn
WCAZ dk 100 D

San Francisco, Calif.
Carthage, Ill.

P-0-Sunset
C-9:30-14

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WDZ ak 100	D	Tuscola, Ill.	C-7:30-15:30
WTAM ck 50000	R	Cleveland, Ohio	E-6:30-1

1080 kilocycles **277.6 meters**

WBT ae 50000	C	Charlotte, N. C.	E-7:30-24
WCBF ak 5000	1Dny	Waukegan, Ill.	C-7:30-10:30; 13:30-14:30; 15:30-24
WMBI ae 5000	1Dn	Chicago, Ill.	C-7-7:30; 10:30-13:30; 14:30-15:30; Tues. 0-1
XEMA z 50	.....	Tampico, Tams.	C-.....

CMGI z 30	1094	Colon, Cuba	E-.....
KMOX ak 50000	C	St. Louis, Mo.	C-5:30-24
WESG ak 1000	.....	Elmira, N. Y.	E-7:30-19

1090 kilocycles **275.1 meters**

CMCY ak 500	.....	Havana, Cuba	E-.....
CMHA z 50	1103	Sagua la Grande, C.	E-.....
CRCV ak 1000	F	Vancouver, B. C.	P-11-15:15; 17:30-23
KGDM ak 1000	D	Stockton, Calif.	P-6-Sunset; 0-6
KGWH ak 10000	C	Shreveport, La.	C-.....
TIRCA ak 500	.....	San Jose, C. R.	C-.....
WLWL ae 5000	1	New York, N. Y.	E-18-20
WPG ak 5000	1C	Atlantic City, N. J.	E-9-18; 20-1
XEFG ak 250	1105	Mexico City, D. F.	C-.....

1100 kilocycles **272.6 meters**

KSOO ak 2500	Dn	Sioux Falls, S. D.	C-6:30-18:30
WRVA ae 5000	N	Richmond, Va.	E-7-24

1110 kilocycles **270.1 meters**

CHLP z 100	.....	Montreal, Que.	E-9-14; 17-24
CHSJ ae 100	F	St. John, N. B.	A-.....
CKOC ae 500	F(1)	Hamilton, Ont.	E-7:45-13:30; 16-24
CKX ak 100	F	Brandon, Man.	C-12-12:30; 19-23
CMCG z 150	1125	Havana, Cuba	E-Mon. 12-18; Tues. 9-12; 18-24
CMHJ ae 40	1125	Cienfuegos, Cuba	E-11-13; 17-21
KFIO ak 100	D	Spokane, Wash.	P-6-17
KFSG ag 1000	a	Los Angeles, Calif.	P-6:30-7:15; 19:30-24
KRKC ae 1000	a(2.5)	Los Angeles, Calif.	P-7:45-19:30; Mon. to 24
KRSC ck 100	D	Seattle, Wash.	P-6-Sunset
WDEL ak 250	(.5)	Wilmington, Del.	E-9-22
WISN ak 250	(1)	Milwaukee, Wis.	E-.....
WMFH z 500	DP	Boston, Mass.	C-.....
WTAW ae 500	.....	College Station, Tex.	C-11:50-12:30; Mon. 20-21

1120 kilocycles **267.7 meters**

KSL ae 50000	C	Salt Lake City, Utah	M-6:30-24
WJJD ak 20000	Dn A	Chicago, Ill.	C-6-18:45
WVOV ag 1000	D	New York, N. Y.	E-8-18

1130 kilocycles **265.3 meters**

KVOO ak 25000	1N	Tulsa, Okla.	C-6:30-21
WAPI ae 5000	1N	Birmingham, Ala.	C-6-sunset; 21-24

1140 kilocycles **263.0 meters**

CMBG z 225	.....	Havana, Cuba	E-
CMJH ak 50	.....	Ciego de Avilla, Cuba	E-8-8:30; 10-15; 17:30-22:30
WHAM ae 50000	B	Rochester, N. Y.	E-8-1
XEH ak 250	.....	Monterrey, N. L.	C-9-20
XEWZ s 100	.....	Mexico City, D. F.	C-.....

1150 kilocycles **260.7 meters**

WOWO ae 10000	1C	Fort Wayne, Ind.	C-7-18:45; 19:30-23
WVVA ak 5000	1C	Wheeling, W. Va.	E-6:30-20:30; Tues. 23-1
XED ck 500	...	Guadalajara, Jal.	C-8-9; 12-15:30; 19-23
XEFL z 5000	P	Tijuana, B. C.	P-
XEU ak 250	Veracruz, Ver.	C-7-9; 10-14; 17-23

1160 kilocycles **258.5 meters**

KCYS
1160
DIAL

CUT OUT ON DOTTED LINES

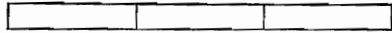
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1170 kilocycles

CMJE z 50
 COA z 500 1175
 WCAU ae 50000 C

256.3 meters

Camaguey, Cuba E-.....
 Havana, Cuba E-.....
 Philadelphia, Pa. E-8-1

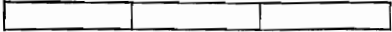


1180 kilocycles

KEK ak 5000 2N
 KOB ae 10000 2
 VE9EK ak 10 1185
 WDGY ak 1000 D (5)
 WINS ae 1000
 WMAZ ak 1000
 KEFA z 500

254.1 meters

Portland, Ore. P-6:30-17:30; 20-24
 Albuquerque, N. M. M-11-21
 Montmagny, Que. E-Silent
 Minneapolis, Minn. C-6:30-20:15
 New York, N. Y. E-7-19:30
 Macon, Ga. E-7-19
 Mexico City, D. F. C-.....



1190 kilocycles

HIJ z 15 1195
 WATR ak 100 D
 WOAI ak 50000 N
 WSAZ ak 1000

252.0 meters

Santo Domingo, D. R. E-.....
 Waterbury, Conn. E-9-17:15
 San Antonio, Texas. C-6:55-13:45; 15-23:30
 Huntington, W. Va. E-7-18:45



1200 kilocycles

CHAB ak 100 F
 CKTB ak 100 F
 CMCJ ak 400
 KADA ak 100 D
 KBTM ak 100 D
 KFJB ak 100 (.25)
 KFJD ae 100 (.25)
 KFJX ak 100 (.25)
 KGDE ak 100 (.25)
 KG EK ak 100
 KG FJ ae 100
 KGHI ak 100 (.25)
 KMLB ak 100
 KOOS ae 100 (.25)
 KSUN ck 100 D
 KVOS ak 100
 KWG ak 100 C
 WABI ak 100
 WBBZ ak 100
 WBNO ck 100 1
 WCAT ak 100 D
 WCAX ak 100
 WCLO ak 100
 WFAM ak 100 8
 WFBE ak 100 (.25) A
 WHBC ak 100 2
 WHBY ak 100 (.25)
 WIBX ak 100 (.3) C
 WIL ak 100 (.25) A
 WJBC ak 100 6
 WJBL ae 100 6
 WJBW ak 100 1
 WKBO ak 100 3 (.25)
 WKJC ae 100 3 (.25)
 WLVA z 100 (.25)
 WMFC z 100 P
 WMPC ak 100
 WNBO ae 100 2
 WRBL ak 100
 WWAE ae 100 8
 10-AK ak 15
 10-BP ak 25

249.9 meters

Moose Jaw, Sask. M-7:30-22
 St. Catharines, Ont. E-8-13:30; 16-23:30
 Havana, Cuba E-.....
 Ada, Okla. C-.....
 Jonesboro, Ark. C-6-17
 Marshalltown, Iowa C-6-9; 12-15; 18-21
 Nampa, Idaho M-7-21
 Grand Junction, Col. M-9-21
 Fergus Falls, Minn. C-7-21
 Sterling, Colo. M-11:30-13:30
 Los Angeles, Calif. P-24 hours
 Little Rock, Ark. C-8-13; 15-22
 Monroe, La. C-.....
 Marshfield, Ore. P-8-19
 Lowell, Ariz. M-Sunrise-Sunset
 Bellingham, Wash P-7:30-22:30
 Stockton, Calif. P-7-24
 Bangor, Maine E-9-14; 18-22
 Ponca City, Okla. C-6:30-21:45
 New Orleans, La. C-12-17 20-23
 Rapid City, S. D. M-12:30-13:30
 Burlington, Vt. E-12-13; Mon. 17-19
 Janesville, Wis. C-7-20
 South Bend, Ind. C-6:30-24
 Cincinnati, Ohio E-7-23
 Canton, Ohio E-7-9; 12-15; 18-21
 Green Bay, Wis. C-7:30-23
 Utica, N. Y. E-8-24
 St. Louis, Mo. C-7-23
 Bloomington, Ill. C-9-12:30; 15-19:30
 Decatur, Ill. C-6:30-9; 12:30-15; 19:30-22
 New Orleans, La. C-8-12; 17-20
 Harrisburg, Pa. E-8-11; 15-24
 Lancaster, Pa. E-11-15; 18-20
 Lynchburg, Va. E-7-14; 17-22
 Anderson, S. C. E-
 Lapeer, Mich. E-10-14; 15:30-18; 19-20:30
 Washington, Pa. E-9-12; 15-18; 21-24
 Columbus, Ga. C-7-21
 Hammond, Ind. C-7-8:30; 11-13; 16-17; 18-24
 Stratford, Ont. E-12-13; Mon. 19:15-21
 Wingham, Ont. E-12-13; 19:15-21

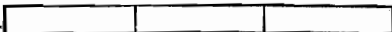


1210 kilocycles

CHNC ak 100 F
 CJCU z 50
 CKBI ak 100 F
 CKCH ak 100 F
 CKMC ak 50
 CMJI ak 150
 KASA ck 100
 KD LR ak 100
 KFJI ak 100
 KFOR ak 100 (.25)C

247.8 meters

New Carlisle, Que. A-12:30-13:30; 18-24
 Aklavik, N. W. T. M-
 Prince Albert, Sask. M-.....
 Hull, Que. E-11:30-13:15; 17:30-23
 Cobalt, Ont. E-.....
 Ciego de Avila, Cuba E-.....
 Elk City, Okla. C-6-8; 9-13:30; 14:30-20
 Devils Lake, N. D. C-8-14:15; 18-20
 Klamath Falls, Ore. P-8:30-21
 Lincoln, Neb. C-7-22:30



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KFPW	ak	100	Fort Smith, Ark.	C-6-14; 17:30-21:30
KFVS	ak	100	6 (.25)	Cape Girardeau, Mo.	C-9-12; 16-19:30; 21-24
KFXM	ak	100	9	San Bernardino, Cal.	P-6-24
KGY	ak	100	.....	Olympia, Wash.	P-7-23
KIEM	ak	100	.....	Eureka, Calif.	P-7:30-22
KPPC	ak	50	9	Pasadena, Calif.	P-Silent
KWEA	z	100	.....	Shreveport, La.	C-.....
KWFF	z	100	.....	Hilo, Hawaii	L-.....
KWTN	ak	100	.....	Watertown, S. D.	C-7-21
WALR	ak	100	.....	Zanesville, Ohio	E-.....
WBAX	ae	100	1	Wilkes Barre, Pa.	E-7-12; Tues. 18-24
WBBL	ak	100	7S	Richmond, Va.	E-Silent
WBRB	ak	100	3	Red Bank, N. J.	E-Mon. 9-11; 19-21; Tues. 17-19
WCBS	ak	100	2	Springfield, Ill.	C-11:15-15; 18:45-21
WCOL	ak	100	A	Columbus, Ohio	E-8-1
WCRW	ae	100	4	Chicago, Ill.	C-11-14; 17-19
WEBQ	ae	100	6 (.25)	Harrisburg, Ill.	C-6-9; 12-16; Mon. 20:30-24; Tues. 19:30-21
WEDC	ae	100	4	Chicago, Ill.	C-8:30-10; 15:30-17; 19-20; 22-23; 0-2
WFAS	ak	100	3	White Plains, N. Y.	E-Mon. 13-19; Tues. 9-11; 21-24
WGBB	ae	100	3	Freeport, N. Y.	E-Mon. 21-24; Tues. 13-16; 19-21
WGCM	ak	100	(.25) Y	Gulfport, Miss.	C-9-13; 19-21
WGNV	ak	100	3	Chester, N. Y.	E-7:30-9; 23-1
WHBF	ak	100	(.25) A	Rock Island, Ill.	C-7:30-23
WHBU	ak	100	(.25)	Anderson, Ind.	C-7-21
WIBU	ak	100	(.25)	Poynette, Wis.	C-7-19
WJBY	ak	100	.....	Gadsden, Ala.	C-9-21
WJFJ	ah	100	D	Hagerstown, Md.	E-7-Sunset
WJIM	z	100	(.25)	Lansing, Mich.	E-.....
WJW	ak	100	A	Akron, Ohio	E-9:30-1
WKOK	ak	100	1	Sunbury, Pa.	E-12-18; Mon. to 24
WMBG	ak	100	7C (.25)	Richmond, Va.	E-7-24
WMFG	z	100	P	Hibbing, Minn.	C-.....
WMFN	z	100	P	Clarksdale, Miss.	C-.....
WOCJ	ak	50	.....	Jamestown, N. Y.	E-10:30-22:30
WOMT	ae	100	.....	Manitowoc, Wis.	C-7-21
WPAX	ae	100	D	Thomasville, Ga.	E-8-21
WSBC	ae	100	4	Chicago, Ill.	C-6-8:30; 10-11; 14-15:30; 20-22; 23-24
WSIX	ak	100	.....	Springfield, Tenn.	C-6-14:30; 17-20:30
WSOC	ak	100	N (.25)	Charlotte, N. C.	E-7-24
WTAX	ak	100	2	Springfield, Ill.	C-.....
XEE	z	50	.....	Durango, Dgo.	C-.....
XEFV	ak	100	.....	Juarez, Chih.	M-9-15; 17-22
XETH	ak	100	.....	Puebla, Pue.	C-8:30-11; 13-15; 19-24

1220 kilocycles 245.8 meters

CMHK	z	50	1225	Cruces, Cuba	E-10-11:30
KFKU	ae	1000	a	Lawrence, Kas.	C-14:30-15; 18-18:30
KTW	ak	1000	S2	Seattle, Wash.	P-Silent
KWSC	ae	1000	2 (2)	Pullman, Wash.	P-6:45-8; 10:30-21:30
WCAD	ak	500	D	Canton, N. Y.	E-12:30-13:30
WCBE	ak	1000	R	Pittsburgh, Pa.	E-6:45-1
WDAE	ae	1000	C (2.5)	Tampa, Fla.	E-8-24
WREN	ak	1000	Ba	Lawrence, Kas.	C-7-24
XETF	z	12	.....	Veracruz, Ver.	C-

KCYS.
1240
DIAL

1230 kilocycles 243.8 meters

CJOC	ak	100	F	Lethbridge, Alta.	M-8-14; 16:30-22
CMCA	z	150	2	Havana, Cuba	E-12-14; 17-18; Tues. to 23
CMOK	z	25	.....	Havana, Cuba	E-.....
KGBB	ak	500	.....	Springfield, Mo.	C-17:45-22
KGGM	ak	250	(.5)	Albuquerque, N. M.	M-6-12; 16-20
KYA	ae	1000	N	San Francisco, Calif.	P-7-24
WFBM	ae	1000	C	Indianapolis, Ind.	C-6:30-24
WNAC	ak	1000	C (2.5)	Boston, Mass.	E-6:30-1
XEFJ	ak	100	.....	Monterrey, N. L.	C-11-14; 18-22

1240 kilocycles 241.8 meters

CJCB	ak	1000	F	Sydney, N. S.	A-10-13:30; 18-23:30
CMHB	z	30	1245	San Spiritus, Cuba	E-.....
KGCU	ak	250	1	Mandan, N. D.	M-12-17; 18:45-21
KLPM	ak	250	1	Minot, N. D.	C-7-13; 18-19:45
KTAT	ak	1000	C	Fort Worth, Texas	C-7-24
KTFI	ae	1000	.....	Twin Falls, Idaho	M-5:45-23:15
WKAQ	ae	1000	.....	San Juan, P. R.	E-11-15-12:15; 130-21:4
WXYZ	ak	1000	.....	Detroit, Mich.	E-7-24
XEAI	z	100	.....	Mexico City, D. F.	C-.....
XEKL	z	500	Leon, Guan.	C-10:30-16; 17-23
XELA	z	50	Saltillo, Coah.	C-

CUT OUT ON DOTTED LINES

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1250 kilocycles 239.9 meters

CMCU	ak	150	1255	Havana, Cuba	E-12-18
KFOX	ak	1000	Long Beach, Calif.	P-6-24
WCAL	ah	1000	2 (2.5)	Northfield, Minn.	C-9:45-10:15; 20-22
WDSU	ak	1000	C	New Orleans, La.	C-7-24
WHBI	ak	1000	1 (2.5)	Newark, N. J.	E-14-17; 20-22
WLB	ak	1000	2	Minneapolis, Minn.	C-Mon. 13-13:30; Tues. 19-20
WNEW	ak	1000	1 (2.5)	Newark, N. J.	E-7-16; Mon. 16-20; 22-4
WTCN	ak	1000	2 (5)	Minneapolis, Minn.	C-6:15-9:45; 22:35-24

1260 kilocycles 238.0 meters

CFRN	ak	100	.....	Edmonton, Alta.	M-7:30-13:30; 15-16; 17:30-20
KGVO	ak	1000	.....	Missoula, Mont.	M-8-22
KOIL	ak	1000	B (2.5)	Council Bluffs, Iowa	C-6-1
KPAC	ak	500	D	Port Arthur, Texas	C-.....
KRGV	ak	500	.....	Weslaco, Texas	C-7-21
KUOA	ak	1000	D	Fayetteville, Ark.	C-7-13; 16-19
KVOA	ak	500	.....	Tucson, Ariz.	M-6-9; 12-15; 18-21
WHIO	ak	1000	C	Dayton, Ohio	E-7-1
WNBX	ak	1000	D	Springfield, Vt.	E-7:15-Sunset
WTOC	ak	1000	C	Savannah, Ga.	E-7-1

1270 kilocycles 236.1 meters

CMCP	z	150	.....	Havana, Cuba	E-.....
HIX	ak	1000	.....	Santo Domingo, D.R.	E-11:40-20:10
KGCA	ak	100	2D	Decorah, Iowa	C-8:30-9:45; 10:45-11:30; 12:30-14:30
KOL	ak	1000	C (2.5)	Seattle, Wash.	P-6:45-24
KVOR	ak	1000	C	Colorado Spgs., Colo.	M-7-23
KWLC	ak	100	2D	Decorah, Iowa	C-7:30-8:30; 9:45-10:45; 11:30-12:30; 14:30-15:30
WASH	ak	500	a	Grand Rapids, Mich.	E-7-24
WFBR	ak	500	R	Baltimore, Md.	E-7-24
WJDX	ak	1000	N (2.5)	Jackson, Miss.	C-7-23
WOOD	ak	500	a	Grand Rapids, Mich.	E-7-24
XEG	z	500	.....	Ensenada, B. C.	P-.....
XFB	ak	1000	.....	Jalapa, Ver.	C-8-9; 13-14:30; 20-23:30

1280 kilocycles 234.2 meters

CMCO	z	150	.....	Havana, Cuba	E-.....
KFBB	ak	1000	(2.5)	Great Falls, Mont.	M-8-22
WCAM	ak	500	1	Camden, N. J.	E-Mon. 11-12; 14-19; 20-24; Tues. 14-17
WCAP	ak	500	1	Asbury Park, N. J.	E-Mon. 6-8; 8:30-11; 12-13; Tues. 8:30-13; 20-24
WDOD	ak	1000	C (5)	Chattanooga, Tenn.	C-7-23:30
WIBA	ak	1000	N	Madison, Wis.	C-7:30-24
WORC	ak	500	C	Worcester, Mass.	E-8-24
WRR	ak	500	.....	Dallas, Texas	C-7-23
WTNJ	ak	500	1 A	Trenton, N. J.	E-8-8:30; 13-14; 17-20

1290 kilocycles 232.4 meters

KDYL	ak	1000	N	Salt Lake City, Utah	M-6:30-1
KLCN	z	100	D	Blytheville, Ark.	C-10:30-16:30
WEBC	ak	1000	N (2.5)	Superior, Wis.	C-7-24
WJAS	ak	1000	C (2.5)	Pittsburgh, Pa.	E-7:30-0:30
WNBZ	z	100	D	Saranac Lake, N. Y.	E-.....
WNEL	ak	500	.....	San Juan, P. R.	A-.....

1300 kilocycles 230.6 meters

CMKJ	z	20	.....	Guantanamo, Cuba	E-.....
HIZ	z	10	.....	Santo Domingo, D.R.	E-.....
KALE	ak	500	3C	Portland, Ore.	P-7-10:30; 14:30-17; 18-19; Mon. 20-23
KFAC	ak	1000	.....	Los Angeles, Calif.	P-7-24
KFH	ak	1000	C2	Wichita, Kans.	C-7-24
KFJR	ag	500	3	Portland, Ore.	P-10:30-14:30; 17-18
VOAC	z	40	.....	St. John's, Nfld.	L-.....
WBRR	ak	1000	1	Brooklyn, N. Y.	E-6:30-7; 10-12; Tues. 18-20
WEVD	ak	1000	1	New York, N. Y.	E-7-9; 15-18; Tues. 20-21; 22-23; 0-1
WFAB	ak	1000	1	New York, N. Y.	E-9-10; 12-15; 21-22
WFBC	ak	1000	(5)	Greenville, S. C.	E-7:30-14:30; 17:30-22:30
WHAZ	ak	500	1	Troy, N. Y.	E-Silent
WIOD	ak	1000	N	Miami, Fla.	E-8-24

1310 kilocycles 228.9 meters

CHCK	ak	50	Charlottetown, P.E.I.	A-12-13:30; 17-21
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CJKL	z	100	Kirkland Lake, Ont.	E-.....
CJLS	z	100	Yarmouth, N. S.	A-.....
CKCV	ak	50	F	Québec, Que.	E-12-14; 18-30; 19:30
KCRJ	ak	100	D	Jerome, Ariz.	M-7:30-9:30; 12-13; 16:30-18
KFBK	ak	100	C	Sacramento, Calif.	P-8-24
KFPL	dkh	100	.....	Dublin, Texas	C-6-15; 18-21
KFPM	ae	15	.....	Greenville, Texas	C-7:45-9; 1-14:45; 18-21
KFXR	ak	100	(.25)	Oklahoma City, Ok.	C-7:30-22
KFYU	ak	100	(.25)	Lubbock, Texas	C-7-21
KGCX	ak	100	(.25)	Wolf Point, Mont.	M-7:30-9; 11:30-15; 18-19
KGEZ	aj	100	.....	Kalspell, Mont.	M-8-21
KGFW	ak	100	.....	Kearney, Neb.	C-7-13:30; 15:30-21
KIT	ak	100	(.25)	Yakima, Wash.	P-7-22
KIUJ	z	100	P	Santa Fe, N. Mex.	M-
KMED	ck	100	(.25)	Medford, Ore.	P-8-20
KRMD	ak	100	.....	Shreveport, La.	C-7-21
KTSM	ak	100	.....	El Paso, Texas	M-6:30-13; 15-22
KXRO	ak	100	.....	Aberdeen, Wash.	P-7:30-22
WAML	ak	100	.....	Laurel, Miss.	C-7-10; 11-14; 16-21:30
WBEO	ae	100	.....	Marquette, Mich.	C-9:30-13:15; 17-19
WBOW	ak	100	.....	Terre Haute, Ind.	C-7-22
WBRE	ak	100	.....	Wilkes Barre, Pa.	E-8-21:45
WCLS	ae	100	.....	Joliet, Ill.	C-Silent
WDAH	ak	100	S	El Paso, Texas	M-Silent
WEBR	ae	100	(.25) A	Buffalo, N. Y.	E-7-24
WEXL	ak	50	.....	Royal Oak, Mich.	E-8-4
WFBG	ae	100	3	Altoona, Pa.	E-10:30-16:30; Tues. 19:15-22:45
WFDL	am	100	.....	Flint, Mich.	E-7-24
WGH	ae	100	(.25)	Newport News, Va.	E-7-13
WHAT	ak	100	4	Philadelphia, Pa.	E-9-11:30; 13-16; 21-24
WJAC	ae	100	3	Johnstown, Pa.	E-9-10:30; 16:30-18:15; 21:15-22:15
WLBC	ak	50	6 (.1)	Muncie, Ind.	C-7-22
WLNH	ak	100	D	Laconia, N. H.	E-8-17
WMBO	ak	100	.....	Auburn, N. Y.	E-9-21
WMFF	z	100	PD	Plattsburg, N. Y.	E-
WNBH	ae	100	(.25) C	New Bedford, Mass.	E-7:45-23:20
WOL	ae	100	(.25) A	Washington, D. C.	E-7-24
WRWA	ak	100	.....	Reading, Pa.	E-7-13; 16-22
WROL	ak	100	.....	Knoxville, Tenn.	C-7-24
WSAJ	ae	100	.....	Grove City, Pa.	E-Mon. silent; Tues. 19:15-20:15
WSGN	ak	100	(.25)	Birmingham, Ala.	C-6-22
WSJS	ak	100	C	Winston-Salem, N. C.	E-7:45-24
WTSL	ah	100	4	Philadelphia, Pa.	E-7-9; 11:30-13; 16-21
WTJS	ak	100	(.25)	Jackson, Tenn.	C-7-13; 16-22
WTRC	ak	50	6 (.1)	Elkhart, Ind.	C-8-19:30
XEAJ	z	15	.....	Cazaca, Camp.	C-
XEC	z	50	.....	Tijuana, B. C.	P-
XECW	z	10	.....	Mexico City, D. F.	C-.....
XEFC	ak	100	.....	Merida, Yuc.	C-11-12
XEPW	ak	250	.....	Tampico, Tams.	C-9-11; 12-14:30; 17-21
XELM	z	15	.....	Mineral del Monte	C-
XETB	z	125	.....	Torreón, Coah.	C-.....
XEX	ak	125	Monterrey, N. L.	C-8-21
.....	z	100	PD	Ashland, Ky.	C-

1320 kilocycles 227.1 meters

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CMCK	z	100	P	Havana, Cuba	E-.....
CMOX	z	200	1325	Havana, Cuba	E-
KGHF	ak	500	Pueblo, Colo.	M-7-22
KGMB	ak	250	C	Honolulu, T. H.	L-6-22:30
KID	ae	250	(.5)	Idaho Falls, Idaho	M-6-23
KSO	ak	500	B (1)	Des Moines, Iowa	C-5:30-1
WADC	ae	1000	C (2.5)	Akron, Ohio	E-9-24
WORK	ak	1000	York, Pa.	E-8-23
WSMB	ak	500	N	New Orleans, La.	C-7-24

1330 kilocycles 225.4 meters

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KGB	ag	1000	C (2.5)	San Diego, Calif.	P-7-1
KMO	ak	250	Tacoma, Wash.	P-6:45-23
KSCJ	aj	1000	1C (2.5)	Stout City, Iowa	C-7:30-23
KTRH	ak	500	C (2.5)	Houston, Texas	C-6:30-24
WDRG	ae	1000	C (2.5)	Hartford, Conn.	E-8-24
WSAI	ak	1000	R (2.5)	Cincinnati, Ohio	E-7-24
WTAQ	ae	1000	1	Eau Claire, Wis.	C-7-20

1340 kilocycles 223.7 meters

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KFPY	ak	1000	C	Spokane, Wash.	P-7-24
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**KCY5.
1340
DIAL**

**CUT OUT ON
DOTTED LINES**

INDEX BY FREQUENCIES AND DIAL NUMBERS

With Monday's and Tuesday's Time on the Air

KGDY	ak	250	D	Huron, S. D.	C—.....
KGNO	ak	250	.....	Dodge City, Kans.	C—7-20
WGOA	ak	500	C	Pensacola, Fla.	C—9-22
WFEA	ae	500	C (1)	Manchester, N. H.	E—9-23
WSPD	ae	1000	C (2.5)	Toledo, Ohio	E—7-1
XFD	z	250	.....	Orizaba, Ver.	C—.....

1350 kilocycles

222.1 meters

CMBD	150	.....		Havana, Cuba	E—18-23
KIDO	ak	1000	(2.5)	Boise, Idaho	M—7-30-22
KWK	ak	1000	B (5)	St. Louis, Mo.	C—6-30-1
WAWZ	ae	250	.1 (.5)	Zarephath, N. J.	E—Mon. 6-9; 19-20:30; Tues. 7:45-8:45; 17-18:30
WBNX	ae	250	1	New York, N. Y.	E—6-7:30; 9-13

1360 kilocycles

220.4 meters

CMJP	ak	75	.....	Moron, Cuba	E—10-12; 20-22
CMKF	z	30	1363	Holquin, Cuba	E—.....
KGFR	ak	1000	.....	Long Beach, Calif.	P—7-23
KGIR	ak	1000	N (2.5)	Butte, Mont.	M—8-23:15
WCSC	ae	500	(1)	Charleston, S. C.	E—8-15:30; 18-23
WFBL	ak	1000	C (5)	Syracuse, N. Y.	E—7-1
WGES	ae	500	1	Chicago, Ill.	C—7-12; 17-20; 23-1
WQBC	ak	1000	D	Vicksburg, Miss.	C—.....
WSBT	ak	500	1	South Bend, Ind.	C—6:30-24

1370 kilocycles

218.8 meters

CKCW	z	100	F	Moncton, N. B.	A—10:45-13:15; 17:15-24
CMGE	z	30	1375	Cardenas, Cuba	E—.....
KCRC	ak	100	2 (2.5)	Enid, Okla.	C—7-9; 11-14; 17-19:45
KELD	z	100	P	El Dorado, Ark.	C—.....
KERN	ak	100	.....	Bakersfield, Calif.	P—7-24
KFGQ	ak	100	.....	Boone, Iowa	C—.....
KFJM	ak	100	(.25)	Grand Forks, N. D.	C—8-20
KFJZ	ae	100	.....	Fort Worth, Texas	C—7-23
KFRO	z	100	DP	Longview, Texas	C—.....
KGAR	ae	100	(.25)	Tucson, Ariz.	M—7-13; 16-22
KGFG	bk	100	2	Oklahoma City, Ok.	C—9-11; 14-19; 19:45-22; Mon. to 24
KGFL	ak	100	4	Roswell, N. M.	M—6-9:30; 14-19:30
KGKL	ak	100	(.25)	San Angelo, Texas	C—8-21:30
KICA	ak	100	4	Clovis, N. M.	M—9:30-14; 19:30-21:30
KLUF	z	100	(.25)	Galveston, Texas	C—.....
KMAC	ak	100	5	San Antonio, Texas	C—7-8:30; 10-11; 12-13:30; 16-18; 19-20; 22-0:30
KONO	ak	100	5	San Antonio, Texas	C—6-7; 8:30-10; 11-12; 13:30-16; 18-19; 20-22
KRE	ak	100	(.25)	Berkeley, Calif.	P—6-24
KRKO	ak	50	1	Everett, Wash.	P—7:30-12; 16:30-20
KSLM	z	100	D	Salem, Ore.	P—.....
KUJ	ak	100	.....	Walla Walla, Wash.	P—6:30-22
KVL	ak	100	1	Seattle, Wash.	P—6-9; 12-15; 18-21
KWKC	z	100	.....	Kansas City, Mo.	C—.....
KWYO	ak	100	.....	Sheridan, Wyo.	M—7-22:30
WABY	ak	100	A	Albany, N. Y.	E—7:30-1
WAGF	ak	100	D	Dothan, Ala.	C—8-17:15
WBTM	ak	100	(.25)	Danville, Va.	E—7-14; 17-22
WCBM	ae	100	(.25) A	Baltimore, Md.	E—.....
WDAS	ae	100	(.25)	Philadelphia, Pa.	E—9-23
WGL	ak	100	C	Fort Wayne, Ind.	C—8-13; 16:45-24
WHBD	ak	100	Y	Mount Orab, Ohio	E—8-11:30; 12-21
WHBO	ak	100	.....	Memphis, Tenn.	C—7:55-14; 16-22:30
WHDF	ak	100	(.25)	Calumet, Mich.	E—7-9; 11:30-13:30; 17:30-20:30
WIBM	ak	100	(.25)	Jackson, Mich.	E—7-24
WJTL	ae	100	.....	Atlanta, Ga.	E—.....
WLLH	ak	100	(.25)	Lowell, Mass.	E—12-15; 18-21
WMBR	ak	100	C	Jacksonville, Fla.	E—7-24
WMFD	z	100	DP	Wilmington, N. C.	E—.....
WOC	z	100	C	Davenport, Iowa	C—.....
WFFB	ak	100	.....	Hattiesburg, Miss.	C—7:30-9:30; 11-13; 18-20
WODM	ae	100	D	St. Albans, Vt.	E—.....
WRAK	ak	100	(.25)	Williamsport, Pa.	E—7:30-20
WRDO	ae	100	.....	Augusta, Maine	E—7:30-13:30; 15-21
WRJN	ak	100	.....	Racine, Wis.	C—8:50-14:30; 16-22:30
WSVS	ak	50	D	Buffalo, N. Y.	E—8:30-10; 14-15
XEFZ	ae	100	.....	Mexico City, D. F.	C—.....
XEI	ak	125	Morelia, Mch.	C—14-15:30; 21-22
XEZZ	z	100	San Luis Potosi, SLP	C—9:30-15; 17-22
.....	z	100	PD	Decatur, Ala.	C—.....

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1380 kilocycles 217.3 meters

CMJC	z	150	1382	Camaguey, Cuba	E—.....
HIH	ak	500	C	Reno, Nev.	P—8-24
KOV	ak	500	2A	Pittsburgh, Pa.	E—7-24
WALA	ae	500	C (1)	Mobile, Ala.	C—8-23
WKBH	ae	1000	.....	LaCrosse Wis.	C—7:30-14; 17-22
WMFE	z	250	PD	New Britain, Conn.	E—.....
WSMK	ak	200	C	Dayton, Ohio	E—7:20; 22-24

1390 kilocycles 215.7 meters

CJRC	ck	100	F	Winnipeg, Man.	C—8-10:15; 11-14; 16-23:30
HIH	ak	15	1395	San Ped. de Macoris, DR	E—.....
KLRA	ae	1000	C (2.5)	Little Rock, Ark.	C—6:30-23
KOY	ae	500	(1)	Phoenix, Ariz.	M—.....
WHK	ae	1000	C (2.5)	Cleveland, Ohio	E—7:30-24

1400 kilocycles 214.2 meters

CMCR	z	150	.....	Havana, Cuba	E—12-13; 16-18; 20-21
KLO	ae	500	C	Ogden, Utah	M—7-24
KTUL	ak	500	C	Tulsa, Okla.	C—6:30-24
TGX	ak	150	.....	Guatemala City, Gt.	C—.....
WARD	ak	500	2	Brooklyn, N. Y.	E—Mon. 11:15-13; 18-19; Tues. 16-17:30; 21-22
WBBC	ae	500	2 (1)	Brooklyn, N. Y.	E—Mon. 16-18; 22:30-1; Tues. 7-11:30; 18-19:30
WKBF	ak	500	N (1)	Indianapolis, Ind.	C—6:30-24
WLTH	ak	500	2	Brooklyn, N. Y.	E—11:30-13:30; 18-19:30
WVFW	ak	500	2	Brooklyn, N. Y.	E—Mon. 7-11:15; 18-19:30; Tues. 13:30-15:45; 22:30-24

1410 kilocycles 212.6 meters

CKFK	ak	50	5	Vancouver, B. C.	P—15-16:30
CKMO	ag	100	5F	Vancouver, B. C.	P—.....
KGRS	ae	1000	1 (2.5)	Amarillo, Texas	C—6-8; 10-12:30; 15-16:30; 18-19:30; 21-22
WAAB	ak	500	C	Boston, Mass.	E—8-23
WBCM	ae	500	.....	Bay City, Mich.	E—8-24
WDAG	ae	1000	1 (2.5)	Amarillo, Texas	C—8-10; 12:30-15; 16:30-18; 19:30-24; 22-23
WHBL	ae	500	4	Sheboygan, Wis.	C—6-10; 13-16:30; 18-19:30
WHIS	ak	250	2	Bluefield, W. Va.	E—7-9; 12-15; 18-20
WRBX	ae	250	2 (5)	Roanoke, Va.	E—9-12; 15-18; 20-23
WROK	ak	500	4	Rockford, Ill.	C—10-13; 16:30-18; 19:30-22:30
WSFA	ak	500	C (1)	Montgomery, Ala.	C—6:30-22:30

1420 kilocycles 211.1 meters

CKGB	ak	100	.....	Timmins, Ont.	E—12-13:30; 17-22:30
CKNC	ak	100	F	Toronto, Ont.	E—8-23:15
KABC	ak	100	.....	San Antonio, Texas	C—7-22:30
KABN	z	100	DP	Aberdeen, S. Dak.	P—.....
KBPS	aj	100	4	Portland, Ore.	P—Silent
KCMC	ak	100	.....	Texarkana, Ark.	C—7-14; 16-21
KFFZ	ak	100	.....	Fond du Lac, Wis.	C—10-13; 16-22
KGFF	ak	100	.....	Shawnee, Okla.	C—7:30-15; 17-21
KGGC	ak	100	.....	San Francisco, Cal.	P—9-13; 16-23
KGIW	ak	100	1	Alamosa, Colo.	M—10-13; 17-19; 22-23
KGIX	ak	100	P (.25)	Las Vegas, Nev.	M—.....
KIDW	z	100	1	Lamar, Colo.	M—8-10; 13-17; 19-22
KORE	ae	100	.....	Eugene, Ore.	P—7:45-21
KRLC	z	100	P	Lewiston, Idaho	M—.....
KUMA	ak	100	.....	Yuma, Ariz.	M—7-9; 11-13; 18-22
KXL	ae	100	4 (.25)	Portland, Ore.	P—8-24
WACO	ak	100	C	Waco, Texas	C—8-17
WAGM	ae	100	.....	Presque Isle, Maine	E—11-13; 16-19
WAZL	ak	2	.....	Hazleton, Pa.	E—10:30-14:30; 16-22
WEED	ak	3	.....	Rocky Mount, N. C.	E—7-21
WEHC	ae	3	(.25)	Charlottesville, Va.	E—7-13:05; 16-1
WEHS	ak	100	a	Cicero, Ill.	C—16-18
WELL	ak	50	.....	Battle Creek, Mich.	E—7:30-23
WGPC	ak	100	.....	Albany, Ga.	C—7-16:45
WHDL	ak	100	D	Olean, N. Y.	E—7-sunset
WHFC	ae	100	a	Cicero, Ill.	C—7-13:30; 18-21; 23-1
WILM	aj	100	2	Wilmington, Del.	E—7-11; 14-17; 21-24
WJBO	z	100	D	Baton Rouge, La.	C—.....
WJMS	ak	100	.....	Ironwood, Mich.	C—7:30-19:30
WKBI	ak	100	a	Cicero, Ill.	C—13:30-16; 21-23
WLAP	ak	100	(.25)	Lexington, Ky.	C—7-23
WLBF	ak	100	.....	Kansas City, Kans.	C—7-22
WLEU	z	100	P (a25)	Erie, Pa.	E—.....
WMAS	ak	100	C (.25)	Springfield, Mass.	E—7:30-24
WMBC	ae	100	(.25)	Detroit, Mich.	E—7:30-24

**KCYS.
1420
DIAL**

INDEX BY FREQUENCIES AND DIAL NUMBERS

With Monday's and Tuesday's Time on the Air

WMBH ak 100 (.25)
 WMFJ z 100 P
 WNRA ak 100 D
 WPAD ak 100 (.25)
 WPRP z 100 P (.25)
 WWC z 1000 P
 XEAZ z 7
 XEFB ak 100

Joplin, Mo.
 Daytona Beach, Fla.
 Muscle Shoals, Ala.
 Paducah, Ky.
 Ponce, P. R.
 Spartanburg, S. C.
 Guanajuato, Gto.
 Monterrey, N. L.

C-7:30-14; 18-21:30
 E-.....
 C-7-13; 16-22
 C-7-9:30; 11-14; 16-22:30
 E-
 E-
 C-.....
 E-10-14; 18-22:30

1430 kilocycles

CMBX ak 150 1435
 KECA ak 1000 (5)
 KGNF ak 1000 D
 KRNT ak 250 B (.5)
 WBNS ae 500 C (1)
 WHEC ae 500 C (1)
 WHP ak 500 C (1)
 WNBR ae 500 A
 WOKO ae 500 C (1)

209.7 meters

Havana, Cuba
 Los Angeles, Calif.
 North Platte, Neb.
 Cedar Rapids, Iowa
 Columbus, Ohio
 Rochester, N. Y.
 Harrisburg, Pa.
 Memphis, Tenn.
 Albany, N. Y.

E-
 P-7-23
 C-7-Sunset
 C-7-24
 E-6:15-24
 E-8-24
 E-8:30-1
 C-7-13; 15-22
 E-8-1

1440 kilocycles

KDFN ak 500
 KLS ae 250 D
 KXYZ ak 500
 WBIG ae 500 C (1)
 WCBA aj 500 a
 WMBD ae 500 3C (1)
 WSAN aj 500 a
 WTAD ak 500 3
 XEFI ae 250

208.2 meters

Casper, Wyo.
 Oakland, Calif.
 Houston, Texas
 Greensboro, N. C.
 Allentown, Pa.
 Peoria, Ill.
 Allentown, Pa.
 Quincy, Ill.
 Chihuahua, Chih.

M-7:30-13:30; 15-21
 P-8-Sunset
 C-6:30-13; 14:30-23
 E-7:30-23
 E-7-23; Tues. to 1
 C-6-11; 20-24
 E-Mon. silent; Tues. 13-23
 C-11-20
 C-.....

1450 kilocycles

CFCT ae 75
 CHGS ae 50 F
 KTBS ck 1000 N
 WGAR ak 500 B (1)
 WHOM ae 250
 WSAK ae 250
 WTFI ak 500

206.8 meters

Victoria, B. C.
 Summerside, P.E.I.
 Shreveport, La.
 Cleveland, Ohio
 Jersey City, N. J.
 Fall River, Mass.
 Athens, Ga.

P-8-12:30; 17:30-20:15
 A-7:30-8:30; 10:30-14; 16-23
 C-7-24
 E-6:30-1
 E-8-24
 E-8-15:30; 17-22
 E-9-21

1460 kilocycles

KSTP ae 10000 N (25)
 WJSV ak 10000 C

205.4 meters

St. Paul, Minn.
 Washington, D. C.

C-7-0:30
 E-6:30-1

1470 kilocycles

WLAC ak 5000 C

204.0 meters

Nashville, Tenn.

C-6:30-24

1480 kilocycles

KOMA ak 5000 C
 WKBW ae 5000 C

202.6 meters

Oklahoma City, Ok.
 Buffalo, N. Y.

C-7-24
 E-9-1

1490 kilocycles

WCKY ae 5000 B

201.2 meters

Covington, Ky.

E-7-24

1500 kilocycles

CMCN z 250
 KDB ak 100 C
 KGFI ak 100 (.25)
 KGFK ak 100
 KGKB ak 100
 KGKY ck 100 (.25)
 KNOW ak 100
 KOTN ak 100 D
 KPJM ak 100
 KPO ak 100 (.25)
 KREG ak 100
 KXO ae 100
 WCNW ak 100 1 (.25)
 WDNC ak 100 C
 WGAL ae 100 (.25)
 WHEF z 100 (.25)
 WJBK ae 100 (.25) A
 WKBW ae 100 (.25)
 WKBV ak 100
 WKBZ ak 100 (.25)

199.9 meters

Havana, Cuba
 Santa Barbara, Calif.
 Corpus Christi, Tex.
 Moorhead, Minn.
 Tyler, Texas
 Scottsbluff, Neb.
 Austin, Texas
 Pine Bluff, Ark.
 Prescott, Ariz.
 Wenatchee, Wash.
 Santa Ana, Calif.
 El Centro, Calif.
 Brooklyn, N. Y.
 Durham, N. C.
 Lancaster, Pa.
 Kosciusko, Miss.
 Detroit, Mich.
 E. Dubuque, Ill.
 Richmond, Ind.
 Muskegon, Mich.

E-.....
 P-7:30-24
 C-7-15; 18-22
 C-8-21
 C-8-10; 12-13; 17-20:30
 M-9-13:30; 17:30-21
 C-7:30-14; 16-22
 C-7-17:30
 M-8-13:30; 17:30-20:30
 P-6:30-22:30
 P-9-23
 P-7-14; 16-21
 E-14-18; Tues. 20-22
 E-7:30-24
 E-9-22
 C-6-24
 E-7-Sunset; 21-24
 C-7-21
 C-10-12; 18-22
 E-9-21

INDEX BY LOCATIONS

WKEU ak	100	.....	Griffin, Ga.	C-10-12; 15-18
WMBO ae	100	1	Brooklyn, N. Y.	E-9-11; Mon. 12-14; 18-20; Tues. 20-24
WMEX ak	100	(.25) A	Boston, Mass.	E-9-1
WNBF ae	100	(.25) C	Binghamton, N. Y.	E-7-22
WQPI ae	100	.....	Bristol, Tenn.	E-6:30-18
WRDW ak	100	.....	Augusta, Ga.	E-8-21
WRGA ak	100	(.25)	Rome, Ga.	C-7-10; 12-15; 18-21
WSYB ak	100	.....	Rutland, Vt.	E-10-13; 17-21
WWRL ak	100	1 (.25)	Woodside, N. Y.	E-8-9; Mon. 11-12; 22-24; Tues. 11-13; 18-20
WWSW ae	100	(.25)	Pittsburgh, Pa.	E-8-24

1510 kilocycles 198.6 meters

CFRC ak	100	.....	Kingston, Ont.	E-.....
CKCR ak	100	.....	Waterloo, Ont.	E-8:30-13:30; 16:30-23

1530 kilocycles 196.0 meters

WIXBS z	1000	A	Waterbury, Conn.	E-8:30-23:30
W9XBY z	1000	.....	Kansas City, Mo.	C-7-1

1550 kilocycles 193.4 meters

W2XR z	1000	.....	Long Isl. City, N. Y.	E-16-19
W6XAI z	1000	.....	Bakersfield, Calif.	P-.....

INDEX 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, A American.

<p>ALABAMA</p> <p>Birmingham</p> <p>WAPI 1140 5000 N</p> <p>WBRC 930 1000 C</p> <p>WSGN 1310 100</p> <p>Decatur</p> <p>..... 1370 100</p> <p>Dothan</p> <p>WAGF 1370 100</p> <p>Gadsden</p> <p>WJBY 1210 100</p> <p>Mobile</p> <p>WALA 1380 500 C</p> <p>Montgomery</p> <p>WSFA 1410 500 C</p> <p>Muscle Shoals</p> <p>WNRA 1420 100</p> <p>ALASKA</p> <p>Anchorage</p> <p>KFOD 780 250</p> <p>Ketchikan</p> <p>KGBU 900 500</p> <p>ARIZONA</p> <p>Jerome</p> <p>KCRJ 1310 100</p> <p>Lowell</p> <p>KSUN 1200 100</p> <p>Phoenix</p> <p>KOY 1390 500</p> <p>KTAR 620 1000 N</p> <p>Prescott</p> <p>KPJM 1500 100</p> <p>Tucson</p> <p>KGAR 1370 100</p> <p>KVOA 1260 500</p> <p>Yuma</p> <p>KUMA 1420 100</p> <p>ARKANSAS</p> <p>Blytheville</p> <p>KLCN 1290 100</p> <p>El Dorado</p> <p>KELD 1370 100</p> <p>Fayetteville</p> <p>KUOA 1260 1000</p> <p>Fort Smith</p> <p>KFPW 1210 100</p> <p>Hot Springs</p> <p>KTHS 1060 10000 N</p>	<p>Jonesboro</p> <p>KBTM 1200 100</p> <p>Little Rock</p> <p>KARK 890 250</p> <p>KGHI 1200 100</p> <p>KLRA 1390 1000 C</p> <p>Pine Bluff</p> <p>KOTN 1500 100</p> <p>Tarkana</p> <p>KCMC 1420 100</p> <p>CALIFORNIA</p> <p>Bakersfield</p> <p>KERN 1370 100 C</p> <p>W6XAI 1550 1000</p> <p>Berkeley</p> <p>KRE 1370 100</p> <p>Beverly Hills</p> <p>KMPC 710 500</p> <p>Burbank</p> <p>KELW 780 500</p> <p>Chico</p> <p>KHSL 950 250</p> <p>El Centro</p> <p>KXO 1500 100</p> <p>Eureka</p> <p>KIEM 1210 100</p> <p>Fresno</p> <p>KMJ 580 500 C</p> <p>Glendale</p> <p>KIEV 850 250</p> <p>Hollywood</p> <p>KFWB 950 1000</p> <p>KMTR 570 1000</p> <p>KNX 1050 50000</p> <p>Long Beach</p> <p>KFOX 1250 1000</p> <p>KGER 1360 1000</p> <p>Los Angeles</p> <p>KECA 1430 1000</p> <p>KFAC 1300 1000</p> <p>KFI 640 50000 N</p> <p>KFSG 1120 1000</p> <p>KFGV 1000 250</p> <p>KGFJ 1200 100</p> <p>KHJ 900 1000 C</p> <p>KRKD 1120 1000</p> <p>KTM 780 500</p> <p>Modesto</p> <p>KTRB 740 250</p>	<p>Oakland</p> <p>KLS 1440 250</p> <p>KLX 880 1000</p> <p>KROW 930 1000</p> <p>Pasadena</p> <p>KPPC 1210 50</p> <p>Sacramento</p> <p>KFBK 1310 100 C</p> <p>San Bernardino</p> <p>KFXM 1210 100</p> <p>San Diego</p> <p>KFSD 600 1000 N</p> <p>KGB 1330 1000 C</p> <p>San Francisco</p> <p>KFRC 610 1000 C</p> <p>KGGG 1420 100</p> <p>KGO 790 7500 N</p> <p>KJBS 1070 500</p> <p>KPO 680 50000 N</p> <p>KTAB 560 1000</p> <p>KYA 1230 1000 N</p> <p>San Jose</p> <p>KQW 1010 1000</p> <p>Santa Ana</p> <p>KREG 1500 100</p> <p>Santa Barbara</p> <p>KDB 1500 100 C</p> <p>Stockton</p> <p>KGDM 1100 1000</p> <p>KWG 1200 100 C</p> <p>COLORADO</p> <p>Alamosa</p> <p>KGIW 1420 100</p> <p>Colorado Springs</p> <p>KVOR 1270 1000 C</p> <p>Denver</p> <p>KFEL 920 500</p> <p>KLZ 560 1000 C</p> <p>KOA 830 50000 N</p> <p>KPOF 880 500</p> <p>KVOD 920 500</p> <p>Grand Junction</p> <p>KFXJ 1200 100</p> <p>Greeley</p> <p>KFKA 880 500</p> <p>Lamar</p> <p>KIDW 1420 100</p> <p>Pueblo</p> <p>KGHF 1320 500</p>	<p>Sterling</p> <p>KGEK 1200 100</p> <p>CONNECTICUT</p> <p>Bridgeport</p> <p>WICC 600 500 C</p> <p>Hartford</p> <p>WDRG 1330 1000 C</p> <p>WTIC 1040 50000 R</p> <p>New Britain</p> <p>WMFE 1380 250</p> <p>New Haven</p> <p>WMFI 900 500</p> <p>Storrs</p> <p>WCAC 600 500</p> <p>Waterbury</p> <p>WATR 1190 100</p> <p>WIXBS 1530 1000 A</p> <p>DELAWARE</p> <p>Wilmington</p> <p>WDEL 1120 250 A</p> <p>WILM 1420 100</p> <p>DISTRICT OF COLUMBIA</p> <p>Washington</p> <p>WJSV 1460 10000 C</p> <p>WMAL 630 250 B</p> <p>WOL 1310 100 A</p> <p>WRC 950 500 R</p> <p>FLORIDA</p> <p>Clearwater</p> <p>WFLA 620 1000 N</p> <p>Daytona Beach</p> <p>WMFJ 1420 100</p> <p>Gainesville</p> <p>WRUF 830 5000</p> <p>Jacksonville</p> <p>WJAX 900 1000 N</p> <p>WMBR 1370 100 C</p> <p>Miami</p> <p>WIOD 1300 1000 N</p> <p>WQAM 560 1000 C</p> <p>Orlando</p> <p>WDBO 580 1000 C</p> <p>Pensacola</p> <p>WGOA 1340 500 C</p> <p>St. Petersburg</p> <p>WSUN 620 1000 N</p>
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Tampa WDAE 1220 1000 C	Rockford WROK 1410 500	Lawrence KFKU 1220 1000	MICHIGAN
GEORGIA	Rock Island WHBF 1210 100 A	Manhattan WREN 1220 1000 B	Battle Creek WELL 1420 50
Albany WGPC 1420 100	Springfield WCBS 1210 100	Topeka KSAC 580 500	Bay City WBCM 1410 500
Athens WTFI 1450 500	Tuscola WTAX 1210 100	Wichita WIBW 580 1000 C	Calumet WHDF 1370 100
Atlanta	Ward WDZ 1070 100	Wichita KFH 1300 1000 C	Detroit WJBK 1500 100 A
WGST 890 500 C	Urbana WJR 1370 100	KENTUCKY	East Lansing WJR 750 10000 B
WJTL 1370 100	WILL 890 250	Ashland	Grand Rapids WMBC 1420 100 R
WWSB 740 50000 N	Waukegan WCBW 1080 5000	..... 1310 100	Ironwood WJZ 920 1000 R
Augusta	INDIANA	Covington	East Lansing WXYZ 1240 1000
WRDW 1500 100	Anderson	WCKY 1490 5000 B	Flint WKAR 1040 1000
Columbus	WBHU 1210 100	Lexington	Grand Rapids WFDF 1310 100
WRBL 1200 100	Elkhart	WLAP 1420 100	Lapeer WASH 1270 500
Griffin	WTRC 1310 50	Louisville	Wood WOOD 1270 500
WKEU 1500 100	Evansville	WAVE 940 1000 N	Ironwood WJMS 1420 100
Macon	WGFB 630 500	WHAS 820 50000 C	Jackson WJBM 1370 100
WMAZ 1180 1000	Fort Wayne	Paducah	Kalamazoo WKZO 590 1000
Rome	WGL 1370 100 C	WPAD 1420 100	Lansing WJIM 1210 100
WRGA 1500 100	WOWO 1160 10000 C	LOUISIANA	Lapeer WMPG 1200 100
Savannah	Gary	Baton Rouge	Marquette WMBQ 1310 100
WTOC 1260 1000 C	WIND 560 1000 A	WJBO 1420 100	Muskegon WBO 1500 100
Thomasville	Hammond	Monroe	Royal Oak WEXL 1310 50
WPAX 1210 100	WVAE 1200 100	KMLB 1200 100	MINNESOTA
HAWAII	Indianapolis	New Orleans	Fergus Falls KGDE 1200 100
Hilo	WFBM 1230 1000 C	WBN0 1200 100	Hibbing WMFG 1210 100
KWVF 1210 100	WKBF 1400 500 N	WDSU 1250 1000 C	Minneapolis WCCO 810 50000 C
Honolulu	Muncie	WJRW 1200 100	Wadena WDGY 1180 1000
KGMB 1320 250 C	WLBK 1310 50	WSMB 1320 500 N	Wadena WLB 1250 1000
KGU 750 2500 N	Richmond	WWL 850 10000	Wadena WTCN 1250 1000
IDAHO	WKBV 1500 100	Shreveport	Moorhead KGFK 1500 100
Boise	South Bend	KRMD 1310 100	Northfield WCAL 1250 1000
KIDO 1350 1000	WFAM 1200 100	KTBS 1450 1000 N	St. Paul WSTP 1460 10000 N
Idaho Falls	WSBT 1360 500 C	KWEA 1210 100	MISSISSIPPI
KID 1320 250	Terre Haute	KWKH 1100 10000 C	Clarksdale WMFN 1210 100
Lewiston	WBOW 1310 100	MAINE	Gulfport WGM 1210 100
KRLC 1420 100	West Lafayette	Augusta	Hattiesburg WPF 1370 100
Nampa	WBAA 890 1000	WRDO 1370 100	Jackson WJDX 1270 1000 N
KFXD 1200 100	IOWA	Bangor	Kosciusko WHEF 1500 100
Pocatello	Ames	WABI 1200 100	Laurel WAML 1310 100
KSEI 900 250	WOI 640 5000	WLBZ 620 500 C	Meridian WCO 880 500
Twin Falls	Boone	Portland	Vicksburg WQBC 1360 1000
KTFI 1240 1000	KFGQ 1370 100	WCSH 940 1000 R	MISSOURI
ILLINOIS	Cedar Rapids	Fresno	Cape Girardeau KFVS 1210 100
Bloomington	CRNT 1430 250 B	WAGM 1420 100	Columbia KFRL 630 500
WJBC 1200 100	Council Bluffs	MARYLAND	Jefferson City WOS 630 500
Carthage	WOC 1370 100 C	Baltimore	Joplin WMBH 1420 100
WCAZ 1070 100	Davenport	WBAL 1060 10000 B	Kansas City KMBC 950 1000 C
Chicago	Decorah	WCAO 600 500 C	
WAAF 920 500	KGCA 1270 100	WCBM 1370 100 A	
WBBM 770 25000 C	KWLC 1270 100	WFBR 1270 500 R	
WCFL 970 1500 B	Des Moines	Cumberland	
WCRW 1210 100	KSO 1320 500 B	WTOBO 800 250	
WEDG 1210 100	WHO 1000 50000 R	Hagerstown	
WENR 870 50000 N	Iowa City	WJEJ 1210 100	
WGES 1360 500	WSUI 880 500	MASSACHUSETTS	
WGN 720 50000 N	Marshalltown	Babson Park	
WJJD 1130 20000 A	KFJB 1200 100	WBSO 920 500	
WLS 870 50000 N	Shenandoah	Boston	
WMAQ 670 50000 N	KFNF 890 500	WAAB 1410 500 C	
WMBI 1080 5000	KMA 930 1000	WEEI 590 1000 R	
WSBC 1210 100	Sioux City	WHDH 830 1000 A	
Cicero	KSCJ 1330 1000 C	WMEH 1500 100 A	
WEHS 1420 100	Waterloo	WMFH 1120 500	
WHFC 1420 100	WMT 600 1000 C	WNAC 1230 1000 C	
WKBI 1420 100	KANSAS	Fall River	
Decatur	Abilene	WSAR 1450 250	
WJBL 1200 100	KFBI 1050 5000	Lowell	
East Dubuque	Coffeyville	WLLH 1370 100	
WKBB 1500 100	KGGE 1010 1000	New Bedford	
Harrisburg	Dodge City	WNBH 1310 100 C	
WEBQ 1210 100	KGNO 1340 250	Springfield	
Joliet	Kansas City	WBEA 990 1000 B	
WCLS 1310 100	WLBK 1420 100	WMAZ 1420 100 C	
Peoria		Worcester	
WMBD 1440 500 C		WORC 1280 500 C	
Quincy		WTAG 580 500 R	
WTAD 1440 500			

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<p> 99 KWKC 1370 100 WDAF 610 1000 R WHB 860 1000 W9XBY 1530 1000 St. Joseph KFEO 680 2500 St. Louis KFUO 550 500 KMOX 1090 50000 C KSD 550 1000 R KWK 1350 1000 B WEW 760 1000 WIL 1200 100 A Springfield KGBX 1230 500 KWTO 560 1000 </p> <p style="text-align: center;">MONTANA</p> <p> Billings KGHL 780 1000 N Butte KGIR 1360 1000 N Great Falls KFBB 1280 1000 Kalispell KGEZ 1310 100 Missoula KGVO 1260 1000 Wolf Point KGCX 1310 100 </p> <p style="text-align: center;">NEBRASKA</p> <p> Clay Center KMMJ 740 1000 Kearney KGFV 1310 100 Lincoln KFAB 770 5000 C KFOR 1210 100 C Norfolk WJAG 1060 1000 North Platte KGNF 1430 1000 Omaha WAAW 660 500 WOW 590 1000 R Scottsbluff KGKY 1500 100 York KGBZ 930 1000 </p> <p style="text-align: center;">NEVADA</p> <p> Las Vegas KGIX 1420 100 Reno KOH 1380 500 C </p> <p style="text-align: center;">NEW HAMPSHIRE</p> <p> Laconia WLNH 1310 100 Manchester WFEA 1340 500 C Portsmouth WHEB 740 250 </p> <p style="text-align: center;">NEW JERSEY</p> <p> Asbury Park WCAP 1280 500 Atlantic City WPG 1100 5000 C Camden WCAM 1280 500 Jersey City WAAT 940 500 WHOM 1450 250 Newark WHBI 1250 1000 WNEW 1250 1000 WOR 710 5000 Red Bank WBRB 1210 100 Trenton WTNJ 1280 500 A </p>	<p> Zarephath WAWZ 1350 250 NEW MEXICO Albuquerque KGGM 1230 250 KOB 1180 10000 Clovis KICA 1370 100 Roswell KGLF 1370 100 Santa Fe KIJY 1310 100 NEW YORK Albany WABY 1370 100 A WOKO 1430 500 C Auburn WMB0 1310 100 Binghamton WBNF 1500 100 C Brooklyn WARD 1400 500 WBBC 1400 500 WBBR 1300 1000 WCNW 1500 100 WLTH 1400 500 WMBW 1500 100 WVFV 1400 500 Buffalo WBEN 900 1000 R WEBR 1310 100 A WGR 550 1000 C WKBW 1480 5000 C WWSV 1370 50 Canton WCAD 1220 500 Chester WGNV 1210 100 Elmira WESG 1090 1000 Freeport WGBB 1210 100 Jamestown WOCL 1210 50 Long Island City W2XR 1550 1000 New York WABC 860 50000 C WBNX 1350 250 WBOQ 860 50000 WEF 660 50000 R WEVD 1300 1000 WFAB 1300 1000 WHN 1010 1000 WINS 1180 1000 WJZ 760 50000 B WLWL 1100 5000 WMCA 570 500 WNYC 810 1000 WOV 1130 1000 Olean WHDL 1420 100 Plattsburg WMFF 1310 100 Rochester WHAM 1150 50000 B WHEG 1430 500 C Saranac Lake WNBZ 1290 100 Schenectady WGY 790 50000 R Syracuse WFBL 1360 1000 C WSYR 570 250 B Troy WHAZ 1300 500 Utica WIBX 1200 100 C White Plains WFAS 1210 100 </p>	<p> Woodside WWRL 1500 100 NORTH CAROLINA Asheville WUNC 570 1000 N Charlotte WBT 1080 50000 C WSOG 1210 100 N Durham WDNK 1500 100 C Greensboro WBIG 1440 500 C Raleigh WPTF 680 5000 N Rocky Mount WEED 1420 100 Wilmington WMDR 1370 100 Winston-Salem WSJS 1310 100 C </p> <p style="text-align: center;">NORTH DAKOTA</p> <p> Bismarck KFVR 550 1000 N Devils Lake KDLR 1210 100 Fargo WDAY 940 1000 N Grand Forks KFJM 1370 100 Mandan KGCU 1240 250 Minot KLPN 1240 250 OHIO Akron WADC 1320 1000 C WJW 1210 100 A Canton WHBC 1200 100 Cincinnati WFBE 1200 100 A WKRG 550 1000 C WLW 700 500000 N WSAI 1330 1000 R Cleveland WGAR 1450 500 B WHK 1390 1000 C WJAY 610 500 A WTAM 1070 50000 R Columbus WAIU 640 500 WBNS 1430 500 C WCOL 1210 100 A WOSU 570 750 Dayton WHIO 1260 1000 C WSMK 1380 200 C Mount Orab WHBD 1370 100 Toledo WSPD 1340 1000 C Youngstown WKBN 570 500 C Zanesville WALR 1210 100 </p> <p style="text-align: center;">OKLAHOMA</p> <p> Ada KADA 1200 100 Elk City KASA 1210 100 Enid KCRC 1370 100 Norman WNAD 1010 1000 Oklahoma City KFXR 1310 100 KGGF 1370 100 KOMA 1480 5000 C WKY 900 1000 N </p>	<p> Ponca City WBBZ 1200 100 Shawnee KGFF 1420 100 Tulsa KTUL 1400 500 C KVOO 1140 25000 N </p> <p style="text-align: center;">OREGON</p> <p> Corvallis KOAC 550 1000 Eugene KORE 1420 100 Klamath Falls KFJI 1210 100 Marshfield KOOS 1200 100 Medford KMED 1310 100 Portland KALE 1300 500 C KBPS 1420 100 KEX 1180 5000 N KFJR 1300 500 KGW 620 1000 N KOIN 940 1000 C KWJJ 1040 500 KXL 1420 100 Salem KSLM 1370 100 </p> <p style="text-align: center;">PENNSYLVANIA</p> <p> Allentown WBCA 1440 500 WSAN 1440 500 Altoona WFBG 1310 100 Clarion WWPA 850 250 Erie WLEU 1420 100 Glenside WIBG 970 100 Greensburg WHJB 620 250 Groves City WSAJ 1310 100 Harrisburg WHP 1430 500 C WKBO 1200 100 Hazleton WAZL 1420 100 Johnstown WJAC 1310 100 Lancaster WGAL 1500 100 WKJC 1200 100 Philadelphia KYW 1020 10000 R WCAU 1170 50000 C W DAS 1370 100 WFIL 560 1000 B WHAT 1310 100 WIP 610 1000 A WPEN 920 250 WRAX 920 250 WTEL 1310 100 Pittsburgh KDKA 980 50000 B KOV 1380 500 A WCAE 1220 1000 R WJAS 1290 1000 C WWSW 1500 100 Reading WEEU 830 1000 WRAW 1310 100 Scranton WGBI 880 500 WOAN 880 250 </p>
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INDEX BY LOCATIONS

Sunbury
 WKOK 1210 100
Washington
 WNBO 1200 100
 Wilkes-Barre
 WBAX 1210 100
 WBRE 1310 100
 Williamsport
 WRAK 1370 100
York
 WORK 1320 1000
PORTO RICO
Ponce
 WPRP 1420 100
San Juan
 WKAQ 1240 1000
 WNEL 1290 500
RHODE ISLAND
Providence
 WEAN 780 500 C
 WJAR 890 500 R
 WPRO 630 250 A
SOUTH CAROLINA
Anderson
 WMFM 1200 100
Charleston
 WCSC 1360 500
Columbia
 WIS 560 1000 N
Greenville
 WFBC 1300 1000
Spartanburg
 WSPA 920 1000
 WWC 1420 1000
SOUTH DAKOTA
Aberdeen
 KABN 1420 100
Brookings
 KFDY 780 1000
Huron
 KGDY 1340 250
Pierre
 KGFX 630 200
Rapid City
 WCAT 1200 100
Sioux Falls
 KSOU 1110 2500
Vermillion
 KUSD 890 500
Watertown
 KWTN 1210 100
Yankton
 WNAX 570 1000 C
TENNESSEE
Bristol
 WOPI 1500 100
Chattanooga
 WDOD 1280 1000 C
Jackson
 WTJS 1310 100
Knoxville
 WNOX 1010 1000 C
WVRO 1310 100
Memphis
 WHBQ 1370 100
 WMC 780 1000 N
 WNBK 1430 500 A
 WREC 600 1000 C
Nashville
 WLAG 1470 5000 C
 WSM 650 5000 N
Springfield
 WSIX 1210 100
TEXAS
Amarillo
 KGRS 1410 1000
 WDAG 1410 1000
Austin
 KNOW 1500 100

Baumont
 KFDM 560 500
College Station
 WTAW 1120 500
Corpus Christi
 KGGI 1500 100
Dallas
 KRLD 1040 10000 C
 WFAA 800 50000 N
 WRRR 1280 500
Dublin
 KFPL 1310 100
El Paso
 KTSM 1310 100
 WDAH 1310 100
Fort Worth
 KFJZ 1370 100
 KTAT 1240 1000 C
 WBPB 800 50000 N
Galveston
 KLUF 1370 100
Greenville
 KFPM 1310 15
Houston
 KPRC 920 1000 N
 KTRH 1330 1000 C
 KXYZ 1440 500
Longview
 KFRO 1370 100
Lubbock
 KFYO 1310 100
Port Arthur
 KPAC 1260 500
San Angelo
 KGKL 1370 100
San Antonio
 KABC 1420 100
 KMAM 1370 100
 KONO 1370 100
 KNTS 550 1000 C
 WOAI 1190 50000 N
Tyler
 KGKB 1500 100
Waco
 WAGO 1420 100 C
Weslaco
 KRGV 1260 500
Wichita Falls
 KGKO 570 500 C
UTAH
Ogden
 KLO 1400 500 C
Salt Lake City
 KDYL 1290 1000 N
 KSL 1130 50000 C
VERMONT
Burlington
 WCAX 1200 100
Rutland
 WSYB 1500 100
St. Albans
 WODM 1370 100
Springfield
 WNBX 1260 1000
Waterbury
 WDEV 550 500
VIRGINIA
Arlington
 NAA 690 1000
Charlottesville
 WEHC 1420 100
Danville
 WBTM 1370 100
Lynchburg
 WLVA 1200 100
Newport News
 WGH 1310 100
Norfolk
 WTAR 780 500 N

Petersburg
 WPHR 880 500
Richmond
 WBBL 1210 100
 WMBG 1210 100 C
 WRVA 1110 5000 N
Roanoke
 WDBJ 930 1000 C
 WRBX 1410 250
Staunton
 WWSA 550 500
WASHINGTON
Aberdeen
 KXRO 1310 100
Bellingham
 KVOS 1200 100
Everett
 KRKO 1370 50
Olympia
 KGY 1210 100
Pullman
 KWSC 1220 1000
Seattle
 KJR 970 5000 N
 KOL 1270 1000 C
 KOMO 920 1000 N
 KPCB 710 250
 KRSC 1120 100
 KTW 1220 1000
 KVL 1370 100
 KXA 760 250
Spokane
 KFIO 1120 100
 KFPY 1340 1000 C
 KGA 900 1000 N
 KHQ 590 1000 N
Tacoma
 KMO 1330 250
 KVI 570 1000 C
Walla Walla
 KUJ 1370 100
Wenatchee
 KPQ 1500 100
Yakima
 KIT 1310 100
WEST VIRGINIA
Bluefield
 WHIS 1410 250
Charleston
 WCHS 580 500
Fairmont
 WMMN 890 250
Huntington
 WSAZ 1190 1000
Wheeling
 WWSA 1160 5000 C
WISCONSIN
Eau Claire
 WTAQ 1330 1000
Fond du Lac
 KFIZ 1420 100
Green Bay
 WHBY 1200 100
Janesville
 WCLO 1200 100
LaCrosse
 WKBH 1380 1000
Madison
 WHA 940 2500
 WIBA 1280 1000 N
Manitowoc
 WOMET 1210 100
Milwaukee
 WISN 1120 250 C
 WTMJ 620 1000 N
Poyette
 WIBU 1210 100

Racine
 WRJN 1370 100
Sheboygan
 WHBL 1410 500
Stevens Point
 WLBL 900 2500
Superior
 WEBC 1290 1000 N
WYOMING
Casper
 KDFN 1440 500
Sheridan
 KWYO 1370 100
CANADA
ALBERTA
Calgary
 CFAC 930 100 F
 CFCN 1030 10000 F
 CJGJ 690 100 F
Edmonton
 CFRN 1260 100
 CJCA 730 1000 F
 CKUA 580 500
Lethbridge
 CJOC 1230 100 F
BRITISH COLUMBIA
Chilliwack
 CHWK 780 100 F
Kamloops
 CFJC 880 100 F
Kelowna
 CKOV 630 100 F
Trail
 CJAT 910 250 F
Vancouver
 CJOR 600 500
 CKCD 1010 100
 CKPC 1410 50
 CKMO 1410 100 F
 CKWX 1010 1000 F
 CRCV 1100 1000 F
Victoria
 CFPT 1450 75
MANITOBA
Brandon
 CKX 1120 100 F
Winnipeg
 CJRC 1390 100 F
 CKY 960 15000 F
NEW BRUNSWICK
Fredrickton
 CFNB 550 500 F
Moncton
 CKCW 1370 100 F
St. John
 CHSJ 1120 100 F
N. W. TERRITORY
Aklavik
 CJCU 1210 50
NOVA SCOTIA
Gloucester
 VAS 685 2000
Halifax
 CHNS 930 1000 F
Sydney
 CJCB 1240 1000 F
Wolfville
 CKIK 1010 50
Yarmouth
 CJLS 1310 100
ONTARIO
Brantford
 CKPK 930 100 F
Chatham
 CFCO 1050 100 F

INDEX BY LOCATIONS

Cobalt		
CKMC	1210	50
Fort William		
CKPF	930	100 F
Hamilton		
CHML	1010	50 F
CKOC	1120	500 F
Kingston		
CFRC	1510	100
Kirkland Lake		
CJKL	1310	100
London		
CFPL	730	100 F
North Bay		
CFCH	930	100 F
Ottawa		
CKCO	1010	100
CRCO	880	1000 F
Prescott		
CFLC	930	100
St. Catharines		
CKTB	1200	100 F
Sault Ste. Marie		
CJIC	890	100
Stratford		
10-AK	1200	15
Sudbury		
CKSO	780	1000
Timmins		
CKGB	1420	100
Toronto		
CFRB	690	10000 C
CKCL	580	100 F
CKNC	1420	100 F
CRCT	840	5000 N
Waterloo		
CKCR	1510	100
Windsor		
CKLW	1030	5000 C
CRCW	600	1000 F
Wingham		
10-BP	1200	25
PRINCE EDWARD ISLAND		
Charlottetown		
CFCY	630	1000 F
CHCK	1310	50
Summerside		
CHGS	1450	50 F
QUEBEC		
Chicoutimi		
CRCS	950	100 F
Hull		
CKCH	1210	100 F
Montmagny		
VE9EK	1185	10
Montreal		
CFCP	600	400 N
CHLP	1120	100
CKAC	730	5000 C
CRGM	910	5000 F
New Carlisle		
CHNC	1210	100 F
Quebec		
CHRC	580	100 F
CKCV	1310	50 F
CRCK	1050	1000 F
SASKATCHEWAN		
Moose Jaw		
CHAB	1200	100 F
CJRM	540	1000 F
Prince Albert		
CKBI	1210	100 F
Regina		
CHWG	1010	500 F
CKCK	1010	500 F
Saskatoon		
CFQC	840	1000 F
Yarnton		
CJGX	630	500 F

NEWFOUNDLAND

St. John's		
VOAC	1300	40
VOAS	940	100
VOYG	840	400
VONF	950	5000
VOWR	681	500
MIQUELON		
St. Pierre		
FQN	609	250

CENTRAL AMERICA

COSTA RICA

Cartago		
TIGA	1014	30
San Jose		
TICR	912	75
TIFFB	714	30
TIGP	800	75
TIRCA	1100	500
TISO	550	250
TIVL	835	30

GUATEMALA

Guatemala City		
TGW	565	10000
TGX	1400	150

EL SALVADOR

San Salvador		
RDN	680	500

MEXICO

AGUASCALIENTES

Aguascalientes		
XFC	810	350

BAJA CALIFORNIA

Agua Caliente

XEBG	730	5000
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Ensenada

XEG	1270	500
Mexicali		
XEAA	920	200
XEAO	560	250
Tijuana		
XEC	1270	50
XEFL	1160	5000
XEMO	865	2500

CAMPECHE

Cazaca		
XEAJ	1310	15

CHIHUAHUA

Chihuahua		
XEFI	1440	250
Juarez		
XEFV	1210	100
XEJ	1020	1250

COAHUILA

Piedras Negras		
XEPN	590	50000
Saltillo		
XELA	1240	50
XEOX	640	250

Torreón

XETB	1310	125
XELQ	540	

Mexico City

XEAI	1240	100
XEB	1030	10000
XECW	1310	10
XEFA	1180	500
XEFG	1100	250
XEFO	940	5000
XEFZ	1370	100
XEK	990	100

XELC	740	100
XEMX	1280	12
XEN	710	1000
XEO	940	5000
XEP	840	500
XETW	820	500
XEW	890	50000
XEWZ	1150	100
XEXX	845	500
XEYZ	780	10000
XFX	610	1000

DURANGO

Durango		
XEE	1210	50
Mineral del Monte		
XELM	1310	15

GUANAJUATO

Guanajuato		
XEAZ	1420	7
Leon		
XEKL	1240	500

JALISCO

Guadalajara		
XEA	1060	125
XED	1160	500

MICHOACAN

Morelia		
XEI	1370	125

NUEVO LEON

Monterrey		
XEFB	1420	100
XEFJ	1230	100
XEH	1150	250
XET	690	500
XEX	1310	125

PUEBLA

Puebla		
XETH	1210	100

SAN LUIS POTOSI

San Luis Potosi		
XEZZ	1370	100

SONORA

Nogales		
XEAF	540	250

TAMAULIPAS

Nuevo Laredo		
XEAM	960	50
XEFE	920	250
XENT	910	60000

Reynosa

XEAW	960	10000
Tampico		
XEFW	1310	250
XEMA	1080	50
XES	990	250

VERACRUZ

Jalapa		
XFB	1270	250
Orizaba		
XFD	1340	350
Veracruz		
XETF	1220	12
XEU	1160	250

YUCATAN

Merida		
XEFC	1310	100
XEZ	630	500

WEST INDIES

CUBA

Caibarien		
CMHD	950	250
Camaguey		
CMJC	1382	150
CMJE	1170	50
CMJF	930	200
CMJG	1050	50

CMJK	790	150
CMJL	960	50
Cardenas		
CMGE	1375	30
Ciego de Avila		
CMJH	1150	50
CMJI	1210	150
CMJO	1010	50
Cienfuegos		
CMHJ	1125	40
CMHW	910	100

Colon

CMGI	1094	30
Cruces		
CMHK	1225	50

Guantanamo

CMKJ	1300	20
Havana		
CMAF	680	1000
CMBC	1035	150
CMBD	1350	150
CMBG	1150	225
CMBS	775	150
CMBX	1435	150
CMBY	635	250
CMBZ	1005	100
CMC	835	500
CMCA	1230	150
CMCB	1060	150
CMCD	955	250
CMCF	610	250
CMCG	1125	150
CMCH	1200	400
CMCN	1500	250
CMCO	1280	150
CMCP	1270	150
CMCQ	680	1000
CMCR	1400	150
CMCU	1255	150
CMCW	755	150
CMCX	865	150
CMCY	1100	500
CMK	725	3150
CMOK	1230	250
CMOX	1325	200
CMQ	840	5000
CMW	930	1400
CMX	905	1000
COA	1175	500

Holguin

CMKF	1363	30
Manzanillo		
CMKM	940	100
Matanzas		
CMGF	971.5	100
CMGH	1040	15
Moron		
CMJRP	1360	75
Sagua la Grande		
CMHA	1103	50
San Spiritus		
CMHB	1245	30
Santa Clara		
CMHI	1037	150
Santiago		
CMKC	1034	150

DOMINICAN REPUBLIC

San Pedro de Macoris		
HIH	1395	15
Santo Domingo		
HIJ	1195	15
HIX	1270	1000
HIZ	1300	10

HAITI

Port-au-Prince		
HHK	920	1000

1YA Auckland, N.Z.

-2GB Sydney, Aust.

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CFAC	930 100	Calgary, Alta.
		Calgary Herald, Southam Bldg.
CFCF	600 400	Montreal, Que.
		Mt. Royal Hotel
CFCH	930 100	North Bay, Ont.
		Capitol Theatre Bldg.
CFCN	1030 10000	Calgary, Alta.
		Toronto Gen. Trust Bldg.
CFCO	1050 100	Chatham, Ont.
		Wm. Pitt Hotel
CFCT	1450 75	Victoria, B. C.
		620 View St.
CFCY	630 1000	Charlottetown, P.E.I.
		143 Great George St.
CFJC	880 100	Kamloops, B. C.
		Wilcox-Hall Bldg.
CFLC	930 100	Prescott, Ont.
		Hoy Bldg., 307 George St.
CFNB	550 500	Fredericton, N. B.
		York St.
CFPL	730 100	London, Ont.
		Richmond St.
CFQC	840 1000	Saskatoon, Sask.
		216 First Ave., No.
CFRB	690 10000	Toronto, Ont.
		37 Bloor St. W.
CFRC	1510 100	Kingston, Ont.
		Queens University
CFRN	1260 100	Edmonton, Alta.
		Birks Bldg.
CHAB	1200 100	Moose Jaw, Sask.
		Grant Hall Hotel
CHCK	1310 50	Charlottetown, P.E.I.
		36 Upper Hillsboro St.
CHGS	1450 50	Summerside, P. E. I.
		190 Water St.
CHLP	1120 100	Montreal, Que.
		Sun Life Bldg.
CHML	1010 50	Hamilton, Ont.
		47 Main St. E.
CHNC	1210 100	New Carlisle, Que.
		Gaspesian Radio Brdcastg. Co.
CHNS	930 1000	Halifax, N. S.
		Lord Nelson Hotel
CHRC	580 100	Quebec, Que.
		CHRC, Ltd., Victoria Hotel
CHSJ	1120 100	St. John, N. B.
		Admiral Beatty Hotel
CHWC	1010 500	Regina, Sask.
		Kitchener Hotel
CHWK	780 100	Chilliwack, B. C.
		Wellington Ave.
CJAT	910 250	Trail, B. C.
		Kootenay Brdcastg. Co.
CJCA	730 500	Edmonton, Alta.
		10122-100A St.
CJCB	1240 1000	Sydney, N. S.
		318 Charlotte St.
CJCJ	690 100	Calgary, Alta.
		New Albertan Bldg.
CJCU	1210 50	Aklavik, N. W. T.
		Dr. J. A. Urquhart, Dept. of Interior
CJGX	630 500	Yorkton, Sask.
		188 Grain Exchange Bldg. (Winnipeg)
CJIC	890 100	S. Ste. Marie, Ont.
		Windsor Hotel
CJKL	1310 100	Kirkland Lake, Ont.
		O. J. Thorpe
CJLS	1310 100	Yarmouth, N. S.
		Laurie L. Smith, Grand Hotel
CJOC	1230 100	Lethbridge, Alta.
		Marquis Hotel

CJOR	600 500	Vancouver, B. C.
		G. C. Chandler, Hotel Grosvenor
CJRC	1390 100	Winnipeg, Man.
		Royal Alexandra Hotel
CJRM	540 1000	Moose Jaw, Sask.
		311 Main St. No.
CKAC	730 5000	Montreal, Que.
		980 St. Catherine St. W.
CKBI	1210 100	Prince Albert, Sask.
		Canada Bldg.
CKCD	1010 100	Vancouver, B. C.
		142 Hastings St. W.
CKCH	1210 100	Hull, Que.
		Standish Hall Hotel
CKCK	1010 500	Regina, Sask.
		1853 Hamilton St.
CKCL	580 100	Toronto, Ont.
		444 University Ave.
CKCO	1010 100	Ottawa, Ont.
		272 Somerset St. W.
CKCR	1510 100	Waterloo, Ont.
		24 King St. So.
CKCV	1310 50	Quebec, Que.
		254 Ave. Marguerite
CKCW	1370 100	Moncton, N. B.
		Moncton Brdcastg. Co., Ltd.
CKFC	1410 50	Vancouver, B. C.
		Hemlock & 12th Ave.
CKGB	1420 100	Timmins, Ont.
		R. H. Thompson, Press Bldg.
CKIC	1010 50	Wolfville, N. S.
		Acadia University
CKLW	1030 5000	Windsor, Ont.
		Guaranty Trust Bldg.
CKMC	1210 50	Cobalt, Ont.
		R. L. MacAdam
CKMO	1410 100	Vancouver, B. C.
		1604 Bekins Bldg.
CKNC	1420 100	Toronto, Ont.
		805 Davenport Road
CKOC	1120 500	Hamilton, Ont.
		Wentworth Bldg.
CKOV	630 100	Kelowna, B. C.
		Okanagan Broadcasters, Ltd., Box 243
CKPC	930 100	Brantford, Ont.
		Arcade Bldg.
CKPR	930 100	Fort William, Ont.
		Royal Edward Hotel
CKSO	780 1000	Sudbury, Ont.
		W. E. Mason, Grand Theatre Bldg.
CKTB	1200 100	St. Catharines, Ont.
		E. T. Sandell, Welland House
CKUA	580 500	Edmonton, Alta.
		University of Alberta.
CKWX	1010 100	Vancouver, B. C.
		Hotel Georgia
CKX	1120 100	Brandon, Man.
		Rosser Ave.
CKY	960 15000	Winnipeg, Man.
		Sherbrooke St.
CMAF	680 1000	Havana, Cuba
		1 y 8 Rept. Miramar
CMBC	1035 150	Havana, Cuba
		Domingo Fernandez, Maximo Gomez No. 139
CMBD	1350 150	Havana, Cuba
		Luis Perez Garcia, Centre Gallego
CMBG	1150 225	Havana, Cuba
		John L. Stowers, Hospital No. 100
CMBS	775 150	Havana, Cuba
		Calzada y H. St., Vedado
CMBX	1435 150	Havana, Cuba
		Alberto Alvarez, Belascoain No. 32

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CMBY 635 250 Havana, Cuba Infanta 132 esq-Jevellar	CMJK 790 150 Camaguey, Cuba Cla. Nacional de Radio, Finlay
CMBZ 1005 100 Havana, Cuba Manuely G. Salas, San Rafael No. 14	CMJL 960 50 Camaguey, Cuba Enrique Artime, Cuba No. 27
CMC 835 500 Havana, Cuba Agulla y Dragones	CMJO 1010 50 Ciego de Avila, Cuba Jose M. Rey, C. Central & Maceo
CMCA 1230 150 Havana, Cuba J. M. Gonzales, Gallano No. 102	CMJP 1360 75 Moron, Cuba Cesar Canall, Callejas No. 28
CMCB 1060 150 Havana, Cuba Metropolitan Bldg.	CMK 725 3150 Havana, Cuba Hote l Plaza
CMCD 955 250 Havana, Cuba Calle G y 25, Vedado	CMKC 1034 150 Santiago, Cuba J. A. Saco, Alta 23
CMCF 610 250 Havana, Cuba Raoul Karman, P. O. Box 647	CMKF 1363 30 Holquin, Cuba Libertad esq. Arias
CMCG 1125 150 Havana, Cuba Emille Perera, San Miguel No. 62	CMKJ 1300 20 Guantanamo, Cuba Luis Morlote, East Giro 11
CMCJ 1200 400 Havana, Cuba Rafael Rodriguez, Estevez No. 4	CMKM 940 100 Manzanillo, Cuba Jesus Armeste, Merchant y P. Figuerado
CMCK 1320 100 Havana, Cuba Manuel Autran G., Vedado	CMOK 1230 250 Havana, Cuba Rafael Valdez, Marques Gonzales 52
CMCN 1500 250 Havana, Cuba Reina y Ave. Buen Ritiroe, Mariano	CMOX 1325 200 Havana, Cuba 10 entre 17 y 19, Vedado
CMCO 1280 150 Havana, Cuba Ass. Detes. del Comercio	CMQ 840 5000 Havana, Cuba 25 Numero 445, Vedado
CMCP 1270 150 Havana, Cuba Calzada de Luyane No. 132	CMW 930 1400 Havana, Cuba Troncoso y Gil, Apdo. 1010
CMCQ 680 1000 Havana, Cuba Vista Alegre No. 80, Vibora	CMX 905 1000 Havana, Cuba Casa "Lavin," Ave. del a Republica 99A
CMCR 1400 150 Havana, Cuba Milagros No. 35, Vibora	COA 1175 500 Havana, Cuba Juan Fernandez, Aguiar 126 ,Altes
CMCU 1255 150 Havana, Cuba San Francisco No. 13, Vibora	CRCK 1050 1000 Quebec, Que. Chateau Frontenac Hotel
CMCW 755 150 Havana, Cuba Gallano y San Lazaro Sts.	CRCH 910 5000 Montreal, Que. 1231 St. Catherine St. W.
CMCX 865 150 Havana, Cuba	CRCO 880 1000 Ottawa, Ont. Chateau Laurier Hotel
CMCY 1100 500 Havana, Cuba Manuel D. Autran, Calle G 215, Vedado	CRCS 950 100 Chicoutimi, Que. 4 Rue Larouche
CMGE 1375 30 Cardenas, Cuba Genaro Sebater, Cespedes No. 180	CRCT 840 5000 Toronto, Ont. 805 Davenport Road
CMGF 971.5 100 Matanzas, Cuba G. Betancourt No. 51	CRCV 1100 1000 Vancouver, B. C. C. N. R. Station Bldg.
CMGH 1040 15 Matanzas, Cuba B. Byrne No. 113	CRCW 600 1000 Windsor, Ont. Guaranty Trust Bldg.
CMGI 1094 30 Colon, Cuba Armando Linanza, Marti No. 35	FQN 609 250 St. Pierre, Miq.
CMHA 1103 50 Saguala Grande, Cuba Abelardo Menocal, Carrillo No. 1	HHK 920 1000 Port-au-Prince, Haiti Haitian Government
CMHB 1245 30 San Spiritus, Cuba Independencia No. 33	HIH 1395 15 San Pedro de M., D.R. Domingo Dominguez
CMHD 950 250 Caibarien, Cuba Manuel Alvarez, M. Escobar 17	HIJ 1195 15 Santo Domingo, D. R. Tuto Baez, Hostos 34
CMHI 1037 150 Santa Clara, Cuba Lavis y Paz, Independencia No. 34	HIX 1270 1000 Santo Domingo, D. R. J. R. Saladin, Director General
CMHJ 1125 40 Cienfuegos, Cuba Romoualde Ugalde, Hotel Bristol	HIZ 1300 10 Santo Domingo, D. R. Abbes and Garcia
CMHK 1225 50 Cruces, Cuba Heredia No. 61	KABC 1420 100 San Antonio, Texas Texas Theatre Bldg.
CMHW 910 100 Cienfuegos, Cuba Arguelles No. 200	KABN 1420 100 Aberdeen, S. Dak. Aberdeen Broadcast Co.
CMJC 1382 150 Camaguey, Cuba Feliciano Isaac, Cisneros y G. Gomez	KADA 1200 100 Ada, Okla. C. C. Morris
CMJE 1170 50 Camaguey, Cuba Manuel Fernandez, Hnos. Aguere No. 2	KALE 1300 500 Portland, Ore. Kale, Inc., New Heathman Hotel
CMJF 930 200 Camaguey, Cuba John L. Stowers, Republica No. 88	KARK 890 250 Little Rock, Ark. N. S. L. Bldg.
CMJG 1050 50 Camaguey, Cuba Jose Antonio Lefran, Maceo No. 1	KASA 1210 100 Elk City, Okla. E. M. Woody, Casa Grande Hotel
CMJH 1150 50 Ciego de Avila, Cuba Luis Marauri, Vista Hermosa	KBPS 1420 100 Portland, Ore. E. 12th & Hoyt Sts.
CMJI 1210 150 Ciego de Avila, Cuba Gilberto Gessa Lopez, Independencia 95	KBTM 1200 100 Jonesboro, Ark. Jay P. Beard

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KCMC 1420 100 Texarkana, Ark. Box 865	KFOX 1250 1000 Long Beach, Calif. 220 E. Anaheim St.
KCRC 1370 100 Enid, Okla. Enid Radiophone Co., Oxford Hotel	KFPL 1310 100 Dublin, Texas C. C. Baxter, Box 176
KCRJ 1310 100 Jerome, Ariz. Chas. C. Robinson, Drawer D.	KFPM 1310 15 Greenville, Texas New Furniture Co.
KDB 1500 100 Santa Barbara, Calif. 15-17 E. Haley St.	KFPW 1210 100 Fort Smith, Ark. Goldman Hotel
KDFN 1440 500 Casper, Wyo. Donald Lewis Hathaway	KFPY 1340 1000 Spokane, Wash. Symons Bldg.
KDKA 980 5000 Pittsburgh, Pa. Hotel Wm. Penn	KFQD 780 250 Anchorage, Alaska 411-4th Ave.
KDLR 1210 100 Devils Lake, N. D. KDLR, Inc., 1025 3rd Street	KFRC 610 1000 San Francisco, Calif. 1000 Van Ness Ave.
KDYL 1290 1000 Salt Lake City, Utah Ezra Thompson Bldg.	KFRO 1370 100 Longview, Texas Voice of Longview
KECA 1430 1000 Los Angeles, Calif. 1000 S. Hope St.	KFRU 630 500 Columbia, Mo. KFRU, Inc., 9th and Elm Sts.
KELD 1370 100 El Dorado, Ark. T. H. Barton	KFSU 600 1000 San Diego, Calif. U. S. Grant Hotel
KELW 780 500 Burbank, Calif. 3702 Magnolia Park Blvd.	KFSG 1120 1000 Los Angeles, Calif. 1100 Glendale Blvd.
KERN 1370 100 Bakersfield, Calif. Elk's Club	KFUO 550 500 St. Louis, Mo. 801 De Mun St.
KEX 1180 5000 Portland, Ore. Oregonian Bldg.	KFVD 1000 250 Los Angeles, Calif. E. L. Cord, 645 S. Mariposa
KFAB 770 5000 Lincoln, Neb. Cornhusker Hotel	KFVS 1210 100 Cape Girardeau, Mo. Oscar C. Hirsch, Box 275
KFAC 1300 1000 Los Angeles, Calif. E. L. Cord, 645 So. Mariposa	KFWB 950 1000 Hollywood, Calif. Warner Bros. Motion Pictures, Inc.
KFBB 1280 1000 Great Falls, Mont. Buttrey Broadcast, Inc.	KFXD 1200 100 Nampa, Idaho Frank E. Hurt, 1024 12th Ave., S.
KFBI 1050 5000 Abilene, Kans. Box 345	KFXJ 1200 100 Grand Jet., Colo. Hillcrest Manor
KFBK 1310 100 Sacramento, Calif. Sacramento Bee	KFXM 1210 100 San Bernardino, Calif. California Hotel
KFDM 560 500 Beaumont, Texas Beaumont Hotel, P. O. Box 2950	KFXR 1310 100 Oklahoma City, Okla. 541 Hightower Bldg.
KFDY 780 1000 Brookings, S. D. South Dakota State College	KFYO 1310 100 Lubbock, Texas Kirksey Bros., Hotel Lubbock
KFEL 920 500 Denver, Colo. Albany Hotel	KFYR 550 1000 Bismarck, N. D. 320 Broadway
KFEQ 680 2500 St. Joseph, Mo. Schnelder Bldg.	KGA 900 1000 Spokane, Wash. 1023 W. Riverside Ave.
KFGQ 1370 100 Boone, Iowa 924 W. 2nd St.	KGAR 1370 100 Tucson, Ariz. 142 S. 6th Ave.
KFH 1300 1000 Wichita, Kans. 124 1/2 S. Market St.	KGB 1330 1000 San Diego, Calif. 1012-1st St.
KFI 640 50000 Los Angeles, Calif. 1000 S. Hope St.	KGBU 900 500 Ketchikan, Alaska Mile 5, Wards Cove Rd.
KFIO 1120 100 Spokane, Wash. 213 Riverside Ave.	KGEX 1230 500 Springfield, Mo. KGBX, Inc., C. of C. Bldg.
KFIZ 1420 100 Fond du Lac, Wis. 18 W. 1st St.	KGBZ 930 1000 York, Neb. KGBZ Broadcasting Co., 715 Grant Ave.
KFJB 1200 100 Marshalltown, Iowa 1603 W. Main St.	KGCA 1270 100 Decorah, Iowa Charles W. Greenley, 201 Water St.
KFJI 1210 100 Klamath Falls, Ore. KFJI Broadcasters, Inc., Willard Hotel	KGCU 1240 250 Mandan, N. D. 404 W. Main St.
KFJM 1370 100 Grand Forks, N. D. University of North Dakota	KGCC 1310 100 Wolf Point, Mont. E. E. Krebsbach.
KFJR 1300 500 Portland, Ore. 622 Lumbermen's Bldg.	KGDE 1200 100 Fergus Falls, Minn. C. L. Jaren
KFJZ 1370 100 Fort Worth, Texas Texas Hotel	KGDM 1100 1000 Stockton, Calif. E. F. Pepper, 42 S. Calif. St.
KFKA 880 500 Greeley, Colo. Box 735	KGDY 1340 250 Huron, S. D. Voice of S. D., Inc., 347 Dakota Ave.
KFKU 1220 1000 Lawrence, Kans. University of Kansas	KGEE 1200 100 Sterling, Colo. Elmer G. Beehler, 109 W. 2nd St.
KFNF 890 500 Shenandoah, Iowa 407 Sycamore St.	KGER 1360 1000 Long Beach, Calif. 435 Pine Ave.
KFOR 1210 100 Lincoln, Neb. Howard Shuman, Hotel Lincoln	KGEZ 1310 100 Kallispell, Mont. Donald C. Treloar, Box 1

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KGFF 1420 100 Shawnee, Okla. 9th & Bell Sts.	KIDW 1420 100 Lamar, Colo. Lamar Broadcasting Co., Box 688
KGFG 1370 100 Oklahoma City, Okla. Okla. Broadcasting Co., 1113 N. Broadway	KIEM 1210 100 Eureka, Calif. Redwood Bdstg. Co., Vance Hotel
KGFI 1500 100 Corpus Christi, Texas Eagle Broadcasting Co., Inc., P. O. Box 1508	KIEV 850 250 Glendale, Calif. Cannon System, Ltd., Glendale Hotel
KGfJ 1200 100 Los Angeles, Calif. Ben S. McGlashan, 1417 S. Figueroa.	KIT 1310 100 Yakima, Wash. 109 1/2 E. Yakima Ave.
KGFK 1500 100 Moorhead, Minn. 722 Center Ave.	KIUJ 1310 100 Santa Fe, N. Mex. J. H. Speck
KGFL 1370 100 Roswell, N. M. KGFL, Inc., 507 N. Main St.	KJBS 1070 500 San Francisco, Calif. 1380 Bush St.
KGFW 1310 100 Kearney, Neb. Midway Hotel	KJR 970 5000 Seattle, Wash. Skinner Bldg.
KGFX 630 200 Pierre, S. D. Dana McNeil, 510 Summit Ave.	KLCN 1290 100 Blytheville, Ark. C. L. Lintzenich, Main and Division St.
KGGC 1420 100 San Francisco, Calif. 230 Eddy St.	KLO 1400 500 Ogden, Utah 405—25th St.
KGGF 1010 1000 Coffeyville, Kans. Coffeyville Journal Bldg.	KLPM 1240 250 Minot, N. D. John B. Cooley, Box 707
KGGM 1230 250 Albuquerque, N. M. Franciscan Hotel	KLRA 1390 1000 Little Rock, Ark. Arkansas Broadcasting Co., Box 550
KGHF 1320 500 Pueblo, Colo. C. P. Ritchie, 113 Broadway	KLS 1440 250 Oakland, Calif. Warner Bros., 2201 Telegraph Ave.
KGHD 1200 100 Little Rock, Ark. Arkansas Brdstg. Co., Marton Hotel	KLUF 1370 100 Galveston, Texas Geo. R. Clough, 3327 Ave. P.
KGHL 780 1000 Billings, Mont. 5th & N. Broadway	KLX 880 1000 Oakland, Calif. Tribune Tower
KGIR 1360 1000 Butte, Mont. KGIR, Inc., 121 W. Broadway	KLZ 560 1000 Denver, Colo. Shirley-Savoy Hotel
KGIW 1420 100 Alamosa, Colo. Leonard E. Wilson, 326 N. Commercial	KMA 930 1000 Shenandoah, Iowa Earl E. May Seed & Nursery Co.
KGIX 1420 100 Las Vegas, Nev. J. M. Heaton, Box 656	KMAC 1370 100 San Antonio, Texas W. W. McAllister, Blue Bonnet Hotel
KGKB 1500 100 Tyler, Texas 115 S. College	KMBC 950 1000 Kansas City, Mo. Plekwick Hotel
KGKL 1370 100 San Angelo, Texas KGKL, Inc., St. Angelus Hotel	KMED 1310 100 Medford, Ore. Mrs. W. J. Virgin, Sparta Bldg.
KGKO 570 500 Wichita Falls, Texas 9th St. & Indiana Ave.	KMJ 580 500 Fresno, Calif. Van Ness & Calaveras Sts.
KGKY 1500 100 Scottsbluff, Neb. Hillard Co., Inc., 1517 1/2 Broadway	KMLB 1200 100 Monroe, La. Francis Hotel
KGMB 1320 250 Honolulu, T. H. Honolulu Broadcasting Co., Box 2663	KMMJ 740 1000 Clay Center, Neb. The M. M. Johnson Co.
KGNF 1430 1000 North Platte, Neb. Great Plains Broadcasting Co., W. 12th St.	KMO 1330 250 Tacoma, Wash. KMO, Inc., Hotel Winthrop
KGNO 1340 250 Dodge City, Kans. First Natl. Bank Bldg.	KMOX 1090 50000 St. Louis, Mo. 401 S. 12th St.
KGO 790 7500 San Francisco, Calif. 111 Sutter St.	KMPC 710 500 Beverly Hills, Calif. 9631 Wiltshire Blvd.
KGRS 1410 1000 Amarillo, Texas E. B. Gish, Bellaire Park	KMTR 570 1000 Hollywood, Calif. KMTR Radio Corp., 915 N. Formosa Ave.
KGU 750 2500 Honolulu, T. H. Kapiolani at South St.	KNOW 1500 100 Austin, Texas Driskill Hotel
KGVO 1260 1000 Missoula, Mont. Mosby, Inc., 240 N. Higgins	KNX 1050 50000 Hollywood, Calif. West. Broadcast Co., Inc., 1558 N. Vine St.
KGW 620 1000 Portland, Ore. 325 Adler St.	KOA 830 50000 Denver, Colo. General Electric Co., 1370 Krameria St.
KGy 1210 100 Olympia, Wash. KGY, Inc., 11th and Capitol Way	KOAC 550 1000 Corvallis, Ore. Oregon State Agricultural College
KHJ 900 1000 Los Angeles, Calif. 7th at Bixel	KOB 1180 10000 Albuquerque, N. M. Albuquerque Journal, Box 867
KHQ 590 1000 Spokane, Wash. Sprague Ave. & Post St.	KOH 1380 500 Reno, Nev. 440 N. Virginia St.
KHSL 950 250 Chico, Calif. Golden Empire Brdstg. Co.	KOIL 1260 1000 Council Bluffs, Iowa Mona Motor Oil Co.
KICA 1370 100 Clovis, N. M. Southwest Broadcasting Co.	KOIN 940 1000 Portland, Ore. KOIN, Inc., New Heathman Hotel
KID 1320 250 Idaho Falls, Idaho Park Ave. & Broadway	KOL 1270 1000 Seattle, Wash. Northern Life Tower
KIDO 1350 1000 Boise, Idaho Hotel Boise	KOMA 1480 5000 Oklahoma City, Okla Biltmore Hotel

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	KOMO 920 1000 Seattle, Wash. Skinner Bldg				KSUN 1200 100 Lowell, Ariz. Copper Electrical Co., Drawer C
	KONO 1370 100 San Antonio, Texas Mission Broadcast. Co., St. Anthony Hotel				KTAB 560 1000 San Francisco, Calif. 5th & Mission Sts.
	KOOS 1200 100 Marshfield, Ore. H. H. Hanseth, Hall Bldg.				KTAR 620 1000 Phoenix, Ariz. 116 N. Central Ave.
	KORE 1420 100 Eugene, Ore. 733 Willamette St.				KTAT 1240 1000 Fort Worth, Texas Ft. Worth Natl. Bank Bldg.
	KOTN 1500 100 Pine Bluff, Ark. William H. Chaplin, Hotel Pines				KTBS 1450 1000 Shreveport, La. Box 1642
	KOY 1390 500 Phoenix, Ariz. 621 N. Central Ave.				KTF I 1240 1000 Twin Falls, Idaho Radio Broadcasting Corp., Box 521
	KPAC 1260 500 Port Arthur, Texas Port Arthur College				KTHS 1060 10000 Hot Springs, Ark. Chamber of Commerce, Box 886
	KPCB 710 100 Seattle, Wash. Tower Bldg.				KTM 780 500 Los Angeles, Calif. 214 S. Vermont St.
	KPJM 1500 100 Prescott, Ariz. Scott & Sturm, P. O. Box 782				KTRB 740 250 Modesto, Calif. McTammany & Bates
	KPO 680 50000 San Francisco, Calif. 111 Sutter St.				KTRH 1330 1000 Houston, Texas KTRH Broadcasting Co., Rice Hotel
	KPOF 880 500 Denver, Colo. Pillar Of Fire, 1845 Champa St.				KTSA 550 1000 San Antonio, Texas Southwest Broadcasting Co., Plaza Hotel
	KPPC 1210 50 Pasadena, Calif. 586 E. Colorado St.				KTSM 1310 100 El Paso, Texas P. O. Box 1978
	KPQ 1500 100 Wenatchee, Wash. KPQ Bldg.				KTUL 1400 500 Tulsa, Okla. National Bank of Tulsa Bldg.
	KPRC 920 1000 Houston, Texas 2204 Shell Bldg.				KTW 1220 1000 Seattle, Wash. 77th Ave. & Spring St.
	KQV 1380 500 Pittsburgh, Pa. EQV Broadcasting Co., Investment Bldg.				KUJ 1370 100 Walla Walla, Wash. KUJ, Inc., Marcus Whitman Hotel
	KQW 1610 1000 San Jose, Calif. 87 E. San Antonio St.				KUMA 1420 100 Yuma, Ariz. Dr. A. H. Schermann, Box 267
	KRE 1370 100 Berkeley, Calif. 2345 Channing Way				KUOA 1260 1000 Fayetteville, Ark. KUOA, Inc., Washington Hotel
	KREG 1500 100 Santa Ana, Calif. 3rd & Sycamore Sts.				KUSD 890 500 Vermillion, S. D. University of South Dakota
	KRGV 1260 500 Weslaco, Texas KRGV Inc.				KVI 570 1000 Tacoma, Wash. W. R. Rust Bldg.
	KRKD 1120 1000 Los Angeles, Calif. 815 Spring Arcade Bldg.				KVL 1370 100 Seattle, Wash. KVL, Inc., 5th and Virginia St.
	KRKO 1370 50 Everett, Wash. Lee Mudgett, 2814 Rucker Ave.				KVOA 1260 500 Tucson, Ariz. Cons. Natl. Bank Bldg.
	KRLC 1420 100 Lewiston, Idaho H. E. Studebaker				KVOD 920 500 Denver, Colo. Continental OM Bldg.
	KRLD 1040 10000 Dallas, Texas KRLD Radio Corp., Adolphus Hotel				KVOO 1140 25000 Tulsa, Okla. Wright Bldg.
	KRMD 1310 100 Shreveport, La. Jefferson Hotel				KVOR 1270 1000 Colorado Spg., Colo. Mining Exchange Bldg.
	KRNT 1430 250 Cedar Rapids, Iowa Hotel Montrose				KVOS 1200 100 Bellingham, Wash. 115 W. Magnolia St.
	KROW 930 1000 Oakland, Calif. 1803 Franklin St.				KWEA 1210 100 Shreveport, La. Spring & Fannin Sts.
	KRSC 1120 100 Seattle, Wash. Radio Sales Corp., Washington Athletic Club				KWFF 1210 100 Hilo, Hawaii Hilo Broadcasting Co., Ltd.
	KSAC 580 500 Manhattan, Kans. State College of Agriculture				KWG 1200 100 Stockton, Calif. Medico-Dental Bldg.
	KSCJ 1330 1000 Sioux City, Iowa Perkins Bros. Co., 415 Douglas St.				KWJJ 1040 500 Portland, Ore. 622 S. W. Salmon St.
	KSD 550 1000 St. Louis, Mo. 12th & Olive Sts.				KWK 1350 1000 St. Louis, Mo. Thomas Patrick, Inc., Hotel Chase
	KSEI 900 250 Pocatello, Idaho Radio Service Corp., 141 S. 6th Ave.				KWKC 1370 100 Kansas City, Mo. 39th & Main Sts.
	KSL 1130 50000 Salt Lake City, Utah Vermont Bldg.				KWKH 1100 10000 Shreveport, La. Spring & Fannin Sts.
	KSLM 1370 100 Salem, Ore. Oregon Radio, Inc.				KWLC 1270 100 Decorah, Iowa Luther College
	KSO 1320 500 Des Moines, Iowa Des Moines Register & Tribune				KWSC 1220 1000 Pullman, Wash. State College of Washington
	KSOO 1110 2500 Sioux Falls, S. D. Sioux Falls Brdest. Assn., Carpenter Hotel				KWTN 1210 100 Watertown, S. D. Citizens Bank Bldg.
	KSTP 1460 10000 St. Paul, Minn. St. Paul Hotel				KWTO 560 1000 Springfield, Mo. KGBX Inc.

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KWYO 1370	100	Sheridan, Wyo. Big Horn Brdestg. Co.
KXA 760	250	Seattle, Wash. American Radio Tel. Co., 218 Bigelow Bldg.
KXL 1420	100	Portland, Ore. KXL Broadcasters, Multnomah Hotel
KXO 1500	100	El Centro, Calif. F. M. Bowles, Box 140
KXRO 1310	100	Aberdeen, Wash. KXRO, Inc., Hotel Morek.
KXYZ 1440	500	Houston, Texas Fannin & Rusk Sts.
KYA 1230	1000	San Francisco, Calif. 988 Market St.
KYW 1020	10000	Philadelphia, Pa.
NAA 690	1000	Arlington, Va. United States Navy
RDN 680	500	San Salvador, E. S. Republic of El Salvador
TGW 565	10000	Guatemala, Gua. Gobierno de Guatemala
TGX 1400	150	Guatemala City
TICR 912	75	San Jose, C. R. Government of Costa Rica
TIFB 714	30	San Jose, C. R.
TIGA 1014	30	Cartago, C. R.
TIGP 800	75	San Jose, C. R. Gonzalo Pinto H. Apt. 225
TIRCA 1100	500	San Jose, C. R. Perry Girton, Apt. 225
TISO 550	250	San Jose, C. R. P. F. Saborio, Apt. 1354
TIVL 835	30	San Jose, C. R.
VAS 685	2000	Glace Bay, N. S. Canadian Marconi Co., Ltd.
VESEK 1185	10	Montmagny, Que. J. A. Marquis, P. O. Box 52
VOAC 1300	40	St. John's, Nfld.
VOAS 940	100	St. John's N. F. Ayre & Sons, Ltd., Water St.
VOGY 840	400	St. John's, N. F. Newfoundland Hotel
VONF 950	5000	St. John's N. F. Dominion Broadcasting Co., Ltd., Box 185
VOWR 681	500	St. John's, N. F. Wesley United Church, Box 157
WAAB 1410	500	Boston, Mass. 21 Brookline Ave.
WAAF 920	500	Chicago, Ill. 836 Exchange Ave.
WAAT 940	500	Jersey City, N. J. Bremer Broadcasting Corp., 50 Journal Sq
WAAW 660	500	Omaha, Neb. Omaha Grain Exchange
WABC 860	50000	New York, N. Y. 485 Madison Ave.
WABI 1200	100	Bangor, Maine First Universalist Society Park St.
WABY 1370	100	Albany, N. Y. Colonial Display House
WACO 1420	100	Waco, Texas Amicable Bldg.
WADC 1320	1000	Akron, Ohio Allen T. Simmons, P. O. Box 29
WAGF 1370	100	Dothan, Ala. Houston Hotel
WAGM 1420	100	Presque Isle, Me. Aroostook Broadcasting Corp., Main St.
WAIU 640	500	Columbus, Ohio Deshler-Wallick Hotel
WALA 1380	500	Mobile, Ala. Battle House
WALR 1210	100	Zanesville, Ohio First Trust & Savs. Bank Bldg.
WAML 1310	100	Laurel, Miss. Southland Radio Corp., Box 26
WAPI 1140	5000	Birmingham, Ala. Protective Life Bldg.
WARD 1400	500	Brooklyn, N. Y. 427 Flatbush Ave., Ext.
WASH 1270	500	Grand Rapids, Mich. Grand Rapids Natl. Bank Bldg.
WATR 1190	100	Waterbury, Conn. WATR Co. Inc. 47 Grand St.
WAVE 940	1000	Louisville, Ky. WAVE, Inc., 1525 Brown Hotel
WAWZ 1350	250	Zarephath, N. J. Pillar of Fire.
WAZL 1420	100	Hazleton, Pa. Hazleton Broadcasting Service, Inc.
WBAA 890	1000	West Lafayette, Ind. Purdue University
WBAL 1060	10000	Baltimore, Md. Lexington Bldg., Amer. Radio News Corp.
WBAP 800	50000	Fort Worth, Texas Blackstone Hotel
WBAX 1210	100	Wilkes-Barre, Pa. John H. Stenger, Jr., 70 S. Main St.
WBBC 1400	500	Brooklyn, N. Y. 552-54 Atlantic Ave.
WBBL 1210	100	Richmond, Va. 1627 Monument Ave.
WBBM 770	25000	Chicago, Ill. WBBM Broadcasting Corp., Wrigley Bldg.
WBBR 1300	1000	Brooklyn, N. Y. 124 Columbia Heights
WBBZ 1200	100	Ponca City, Okla. C. L. Carrel, 407 W. South Ave.
WBCM 1410	500	Bay City, Mich. James E. Davidson, Hotel Wenonah
WBEN 900	1000	Buffalo, N. Y. WBEN, Inc., Hotel Statler
WBOE 1310	100	Marquette, Mich. 146 W. Washington St.
WBIG 1440	500	Greensboro, N. C. Box 408
WBNO 1200	100	New Orleans, La. Hotel Marberó
WBNS 1430	500	Columbus, O. 33 N. High St.
WBNX 1350	250	New York, N. Y. 260 E. 161st St.
WBOQ 860	50000	New York, N. Y. Atlantic Broadcasting Corp.
WBOW 1310	100	Terre Haute, Ind. Banks of Wabash, Inc., 19 Beach Block
WBRB 1210	100	Red Bank, N. J. 63 Broad St.
WBRC 930	1000	Birmingham, Ala. Bankhead Hotel
WBRE 1310	100	Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main
WBSO 920	500	Babson Park, Mass. Drawer B
WBT 1080	50000	Charlotte, N. C. Station WBT, Inc., Wilder Bldg.
WBTM 1370	100	Danville, Va. Miller Bldg.

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WBZ 990 50000	Boston, Mass. Hotel Bradford
WBZA 990 1000	Springfield, Mass. Hotel Kimball
WCAC 600 500	Storrs, Conn. Connecticut State College
WCAD 1220 500	Canton, N. Y. St. Lawrence University
WCAE 1220 1000	Pittsburgh, Pa. 6th Ave. & Smithfield St.
WCAL 1250 1000	Northfield, Minn. St. Olaf College
WCAM 1280 500	Camden, N. J. City of Camden, City Hall
WCAO 600 500	Baltimore, Md. 811 W. Lanvale St.
WCAP 1280 500	Asbury Park, N. J. Convention Hall
WCAT 1200 100	Rapid City, S. D. South Dakota State School of Mines
WCAU 1170 50000	Philadelphia, Pa. WCAU Broadcasting Co., 1622 Chestnut
WCAX 1200 100	Burlington, Vt. 203 College St.
WCAZ 1070 100	Carthage, Ill. 97 1/2 Adams St.
WCBA 1440 500	Allentown, Pa. B. Bryan Musselman, 39-41 10th St.
WCBD 1080 5000	Waukegan, Ill. 75 E. Wacker Drive, Chicago
WCBM 1370 100	Baltimore, Md. Keith Theatre Bldg.
WCBS 1210 100	Springfield, Ill. WCBS, Inc., 208 1/2 S. 5th.
WCCO 810 50000	Minneapolis, Minn. Nicollet Hotel
WCFL 970 1500	Chicago, Ill. 666 Lake Shore Drive
WCHS 580 500	Charleston, W. Va. WOBu, Inc., Ruffner Hotel
WCKY 1490 5000	Covington, Ky. 6th & Madison Sts.
WCLO 1200 100	Janesville, Wis. 200 E. Milwaukee St.
WCLS 1310 100	Joliet, Ill. WCLS, Inc., 301 E. Jefferson St.
WCNW 1500 100	Brooklyn, N. Y. Arthur Faske, 1525 Pitkin Ave.
WCOA 1340 500	Pensacola, Fla. San Carlos Hotel
WCOC 880 500	Meridian, Miss. Box 603
WCOL 1210 100	Columbus, Ohio WCOL Inc., 30 N. High St.
WCRW 1210 100	Chicago, Ill. Clinton R. White, 2756 Pine Grove Ave.
WCSC 1360 500	Charleston, S. C. Francis Marion Hotel
WCSH 940 1000	Portland, Me. 579 Congress St.
WDAE 1220 1000	Tampa, Fla. Tampa Times Co., Tampa Terrace
WDAF 610 1000	Kansas City, Mo. 1729 Grand Ave.
WDAG 1410 1000	Amarillo, Texas Box 306
WDAH 1310 100	El Paso, Texas Box 1976
WDAS 1370 100	Philadelphia, Pa. WDAS Broadcastg. Co., Inc., Broadwood Hotel
WDAY 940 1000	Fargo, N. D. WDAY, Inc., Black Bldg., 118 Broadway

WDEJ 930 1000	Roanoke, Va. Times World Corp., P. O. Box 150
WDBO 580 1000	Orlando, Fla. 555 N. Orange Ave.
WDEL 1120 250	Wilmington, Del. WDEL, Inc., 10th and King Sts.
WDEV 550 500	Waterbury, Vt. Harry C. Whitehill, Stowe St.
WDGY 1180 1000	Minneapolis, Minn. Dr. Geo. W. Young, 909 W. Broadway
WDNC 1500 100	Durham, N. C. Washington Duke Hotel
WDDO 1280 1000	Chattanooga, Tenn. WDDO Broadcasting Corp., Hotel Patten
WDRC 1330 1000	Hartford, Conn. WDRC, Inc., Corning Bldg., 11 Asylum St.
WDSU 1250 1000	New Orleans, La. WDSU Inc., Hotel Monteleone
WDZ 1070 100	Tuscola, Ill. James L. Bush, Star Store Bldg.
WEAF 660 50000	New York, N. Y. 30 Rockefeller Plaza
WEAN 780 500	Providence, R. I. New Crown Hotel
WEBC 1290 1000	Superior, Wis. Spaulding Hotel, Duluth, Minn.
WEGQ 1210 100	Harrisburg, Ill. 100 E. Poplar St.
WEHR 1310 100	Buffalo, N. Y. Howel Broadcasting Co., Inc., 735 Main
WEDC 1210 100	Chicago, Ill. Emil Denmark, 3860 Ogden Ave.
WEED 1420 100	Rocky Mount, N. C. Wm. Avera Wynne, Box 221
WEEI 590 1000	Boston, Mass. 182 Tremont St.
WEUU 830 1000	Reading, Pa. Berks Broadcasting Co., 533 Penn.
WEHC 1420 100	Charlottesville, Va. 7th & Main Sts.
WEHS 1420 100	Cicero, Ill. WEHS, Inc., 6138 W. Cermak Rd.
WELL 1420 50	Battle Creek, Mich. Enquirer News, 38 W. State St.
WENR 870 50000	Chicago, Ill. 222 N. Bank Drive
WESG 1090 1000	Elmira, N. Y. Mark Twain Hotel
WEVD 1300 1000	New York, N. Y. Jewish Daily Forward, Hotel Claridge
WEW 760 1000	St. Louis, Mo. St. Louis University, 221 N. Grand Blvd.
WEXL 1310 50	Royal Oak, Mich. 212 W. 6th St.
WFAA 800 50000	Dallas, Texas Baker Hotel
WFAB 1300 1000	New York, N. Y. Fifth Avenue Broadcasting Corp.
WFAM 1200 100	South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave.
WFAS 1210 100	White Plains, N. Y. Hotel Roger Smith
WFBC 1300 1000	Greenville, S. C. Imperial Hotel
WFBE 1200 100	Cincinnati, Ohio WFBE, Inc., Hotel Sinton
WFBG 1310 100	Altoona, Pa. Gable Broadcasting Co. 12th Av. & 13th St.
WFBL 1360 1000	Syracuse, N. Y. Onondaga Hotel
WFBM 1230 1000	Indianapolis, Ind. 48 Monument Circle

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WFBR 1270	500	Baltimore, Md.
7 St. Paul St.		
WFDF 1310	100	Flint, Mich.
Union Industrial Bldg.		
WFEA 1340	500	Manchester, N. H.
Carpenter Hotel		
WFIL 560	1000	Philadelphia, Pa.
WFIL Broadcasting Co., 801 Market		
WFLA 620	1000	Clearwater, Fla.
Box 119		
WGAL 1500	100	Lancaster, Pa.
WGAL, Inc., 8 W. King St.		
WGAR 1450	500	Cleveland, Ohio
WGAR Broadcasting Co., Hotel Statler		
WGBB 1210	100	Freeport, N. Y.
H. H. Carman, 64 S. Grove St.		
WGBF 630	500	Evansville, Ind.
519 Vine St.		
WGBI 880	500	Scranton, Pa.
116 N. Washington Ave.		
WGCM 1210	100	Gulfport, Miss.
Great Southern Hotel		
WGES 1360	500	Chicago, Ill.
128 N. Crawford Ave.		
WGH 1310	100	Newport News, Va.
2813 Washington Ave.		
WGL 1370	100	Fort Wayne, Ind.
F. C. Zieg, 213 W. Main St.		
WGN 720	50000	Chicago, Ill.
WGN, Inc., Tribune Tower		
WGNV 1210	100	Chester, N. Y.
Peter Goelet (Orange County)		
WGPC 1420	100	Albany, Ga.
Rylander Theatre Bldg.		
WGR 550	1000	Buffalo, N. Y.
Rand Bldg.		
WGST 890	500	Atlanta, Ga.
Ansley Hotel		
WGY 790	50000	Schenectady, N. Y.
1 River Road		
WHA 940	2500	Madison, Wis.
University of Wisconsin		
WHAM 1150	50000	Rochester, N. Y.
100 Carlson Road		
WHAS 820	50000	Louisville, Ky.
300 W. Liberty St.		
WHAT 1310	100	Philadelphia, Pa.
Public Ledger Bldg.		
WHAZ 1300	500	Troy, N. Y.
8th St.		
WHB 860	1000	Kansas City, Mo.
WHB Broadcasting Co., Scarritt Bldg.		
WHBC 1200	100	Canton, Ohio
Edw. P. Graham, 319 Tusco St., W.		
WHBD 1370	100	Mount Orab, Ohio
F. P. Moler		
WHBF 1210	100	Rock Island, Ill.
Hotel Harms		
WHBI 1250	1000	Newark, N. J.
100 Shipman St.		
WHBL 1410	500	Shoboygan, Wis.
Press Publishing Co., Press Bldg.		
WHBQ 1370	100	Memphis, Tenn.
Brdstg. Sta. WNBQ, Inc., Hotel Claridge		
WHBU 1210	100	Anderson, Ind.
Anderson Broadcasting Corp., Box 816		
WHBY 1200	100	Green Bay, Wis.
WEBY, Inc., Bellin Bldg.		
WHDF 1370	100	Calumet, Mich.
Box 643		
WHDH 830	1000	Boston, Mass.
Matheson Radio Co., 62 Boylston		

WHDL 1420	100	Olean, N. Y.
Exchange Natl. Bank Bldg.		
WHEB 740	250	Portsmouth, N. H.
Box 522, 39 Congress St.		
WHEC 1430	500	Rochester, N. Y.
WHEC, Inc., 40 Franklin St.		
WHEF 1500	100	Kosciusko, Miss.
417 W. Adams St.		
WHFC 1420	100	Cicero, Ill.
WHFC, Inc., 6138 W. Cermak Road		
WHIO 1260	1000	Dayton, Ohio
39 S. Ludlow St.		
WHIS 1410	250	Bluefield, W. Va.
Bland St.		
WHJB 620	250	Greensburg, Pa.
Penn-Albert Hotel, 128 Pa. Ave.		
WHK 1390	1000	Cleveland, Ohio
1311 Terminal Tower		
WHN 1010	1000	New York, N. Y.
1540 Broadway		
WHO 1000	50000	Des Moines, Iowa
Central Brdstg. Co., 914 Walnut St.		
WHOM 1450	250	Jersey City, N. J.
2870 Boulevard		
WHP 1430	500	Harrisburg, Pa.
WHP, Inc., 216 Locust St.		
WIBA 1280	1000	Madison, Wis.
111 King St.		
WIBG 970	100	Glenside, Pa.
WIBG, Inc., Keswick Bldg.		
WIBM 1370	100	Jackson, Mich.
WIBM, Inc., 306 W. Michigan Ave.		
WIBU 1210	100	Poynette, Wis.
Wm. C. Forrest, R. F. D. No. 3		
WIBW 580	1000	Topeka, Kans.
11th & Topeka Blvd.		
WIBX 1200	100	Utica, N. Y.
WIBX, Inc., 1st Natl. Bank Bldg.		
WICC 600	500	Bridgeport, Conn.
Southern Conn. Broadcasting Corp.		
WIL 1200	100	St. Louis, Mo.
Melbourne Hotel		
WILL 890	250	Urbana, Ill.
University of Illinois		
WILM 1420	100	Wilmington, Del.
920 King St.		
WIND 560	1000	Gary, Ind.
504 Broadway		
WINS 1180	1000	New York, N. Y.
110 E. 58th St., Hearst Radio, Inc.		
WIOD 1300	1000	Miami, Fla.
Herald Bldg., Metropolis Pub. Co.		
WIP 610	1000	Philadelphia, Pa.
Gimbel Bldg.		
WIS 560	1000	Columbia, S. C.
Station WIS, Inc., 1811 Main St.		
WISN 1120	250	Milwaukee, Wis.
123 W. Michigan St., Hearst Radio, Inc.		
WJAC 1310	100	Johnstown, Pa.
WJAC, Inc., Locust St.		
WJAG 1060	1000	Norfolk, Neb.
Norfolk Daily News		
WJAR 890	500	Providence, R. I.
Outlet Co., Weybossett St.		
WJAS 1290	1000	Pittsburgh, Pa.
Chamber of Commerce Bldg.		
WJAX 900	1000	Jacksonville, Fla.
City of Jacksonville		
WJAY 610	500	Cleveland, Ohio
1224 Huron Road		
WJBC 1200	100	Bloomington, Ill.
Kaskaskia Broadcasting Co.		

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WJBK 1500 100 Detroit, Mich. 6559 Hamilton Ave.	WLBK 1420 100 Kansas City, Kans. WLBK Broadcasting Co., Huron Bldg.
WJBL 1200 100 Decatur, Ill. Gushard Bldg.	WLBL 900 2500 Stevens Point, Wis. Wisconsin Dept of Agriculture and Markets
WJBO 1420 100 Baton Rouge, La. Baton Rouge Broadcasting Co., Inc.	WLBZ 620 500 Bangor, Me Maine Broadcasting Co., Inc., 100 Main
WJBW 1200 100 New Orleans, La. C. C. Carlson, 2743 Dumaine St.	WLEU 1420 100 Erie, Pa. Leo J. Omelian
WJBY 1210 100 Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St.	WLLH 1370 100 Lowell, Mass. Albert S. Moffat, Box D
WJDX 1270 1000 Jackson, Miss. Lamar Life Bldg.	WLNH 1310 100 Laconia, N. H. 523 Main St.
WJEJ 1210 100 Hagerstown, Md. Lovely Dame Bldg.	WLS 870 50000 Chicago, Ill. 1230 W. Washington Bldg.
WJIM 1210 100 Lansing, Mich. Capital City Brdstg. Co.	WLTH 1400 500 Brooklyn, N. Y. 305 Washington St.
WJJD 1130 20000 Chicago, Ill. WJJD, Inc., 201 N. Wells St.	WLVA 1200 100 Lynchburg, Va. 915 Main St.
WJMS 1420 100 Ironwood, Mich. WJMS, Inc., St. James Hotel	WLW 700 50000 Cincinnati, Ohio 1329 Arlington St.
WJR 750 10000 Detroit, Mich. WJR, Inc., Fisher Bldg.	WLWL 1100 5000 New York, N. Y. 415 W. 59th St.
WJSV 1460 10000 Washington, D. C. Shoreham Bldg.	WMAL 630 250 Washington, D. C. 712—11th St., N. W.
WJTL 1370 100 Atlanta, Ga. Oglethorpe University	WMAQ 670 50000 Chicago, Ill. Merchandise Mart
WJW 1210 100 Akron, Ohio WJW, Inc., 41 S. High St.	WMAS 1420 100 Springfield, Mass. WMAS, Inc., 70 Chestnut St.
WJZ 760 50000 New York, N. Y. 30 Rockefeller Plaza	WMAZ 1180 1000 Macon, Ga. 211 Cotton Ave.
WKAQ 1240 1000 San Juan, P. R. Radio Corp. of Porto Rico, P. O. Box 358	WMBC 1420 100 Detroit, Mich. 7310 Woodward Ave.
WKAR 1040 1000 East Lansing, Mich. Michigan State College	WMBD 1440 500 Peoria, Ill. 114 N. Madison St.
WKBB 1500 100 East Dubuque, Ill. Richard W. Hoffman	WMBG 1210 100 Richmond, Va. 914 W. Broad St.
WKBF 1400 500 Indianapolis, Ind. 540 N. Meridian St.	WMBH 1420 100 Joplin, Mo. 1334 Roosevelt St.
WKBH 1380 1000 LaCrosse, Wis. WKBH, Inc., 409 Main St.	WMBI 1080 5000 Chicago, Ill. 153 Institute Place
WKBI 1420 100 Cicero, Ill. WKBI Inc., 6138 W. Cermak Road	WMO 1310 100 Auburn, N. Y. WMO, Inc., Metcalf Bldg.
WKBN 570 500 Youngstown, Ohio 17 N. Champion St.	WMOB 1500 100 Brooklyn, N. Y. Paul J. Golhofer, 95 Leonard St.
WKBO 1200 100 Harrisburg, Pa. Penn Harris Hotel	WMBR 1370 100 Jacksonville, Fla. F. J. Reynolds, Carling Hotel
WKBV 1500 100 Richmond, Ind. Knox Radio Corp., Box 308	WMC 780 1000 Memphis, Tenn. WMC, Inc., Hotel Gayoso
WKBW 1480 5000 Buffalo, N. Y. Rand Bldg.	WMCA 570 500 New York, N. Y. 1697 Broadway
WKBZ 1500 100 Muskegon, Mich. Karil L. Ashbacher & Sons	WMEX 1500 100 Boston, Mass. The Northern Corp., Hotel Manger
WKEU 1500 100 Griffin, Ga. Radio Station WKEU, 906 Hill St.	WMFD 1370 100 Wilmington, N. C. Richard Austin Dunlea
WKJC 1200 100 Lancaster, Pa. 16 W. King St.	WMFE 1380 250 New Britain, Conn. William J. Sanders
WKOK 1210 100 Sunbury, Pa. 1150 N. Front St.	WMFF 1310 100 Plattsburg, N. Y. Plattsburg Broadcasting Corp.
WKRC 550 1000 Cincinnati, Ohio WKRC, Inc., Hotel Alms	WMFG 1210 100 Hibbing, Minn. Head of the Lakes Brdstg. Co.
WKY 900 1000 Oklahoma City, Okla. Plaza Court Bldg.	WMFH 1120 500 Boston, Mass. Joseph M. Kirby
WKZO 590 1000 Kalamazoo, Mich. John E. Fetzer, Burdick Hotel	WMFI 900 500 New Haven, Conn. Patrick J. Goode
WLAC 1470 5000 Nashville, Tenn. 159—4th Ave. No.	WMFJ 1420 100 Daytona Beach, Fla. W. Wright Esch
WLAP 1420 100 Lexington, Ky. Main & Esplanade	WMFM 1200 100 Anderson, S. C. Wilton E. Hall
WLB 1250 1000 Minneapolis, Minn. University of Minnesota	WMFN 1210 100 Clarksdale, Miss. Attala Brdstg. Corp.
WLBC 1310 50 Muncie, Ind. D. A. Burton, Anthony Bldg.	WMMN 890 250 Fairmont, W. Va. A. M. Rowe, Inc., 325 Main St.

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WMPC 1200	100	Lapeer, Mich.	WPFB 1370	100	Hattiesburg, Miss.
81 Liberty St.			Geo. T. Bishop, Box 530		
WMT 600	1000	Waterloo, Iowa	WPG 1100	5000	Atlantic City, N. J.
3rd & Lafayette Sts.			Convention Hall		
WNAC 1230	1000	Boston, Mass.	WPHR 880	500	Petersburg, Va.
21 Brookline Ave.			WLBC, Inc., Medical Arts Bldg.		
WNAD 1010	1000	Norman, Okla.	WPRO 630	250	Providence, R. I.
University of Oklahoma			Cherry & Webb Bldg. Co., 15 Chestnut		
WNAX 570	1000	Yankton, S. D.	WPRP 1420	100	Ponce, P. R.
House of Gurney, Inc., 2nd and Capital St.			Julio M. Conesa		
WNBF 1500	100	Binghamton, N. Y.	WPTF 680	5000	Raleigh, N. C.
Arlington Hotel			324 Fayetteville St.		
WNBH 1310	100	New Bedford, Mass.	WQAM 560	1000	Miami, Fla.
251 Union St.			Miami Bldg. Co., Inc., 327 N. E. 1st Ave.		
WNBO 1200	100	Washington, Pa.	WQAN 880	250	Scranton, Pa.
319 E. Beau St.			Scranton Times, 149 Penn Ave.		
WNBZ 1430	500	Memphis, Tenn.	WQBC 1360	1000	Vicksburg, Miss.
Memphis Broadcasting Co., Hotel DeVoy			Delta Broadcasting Co., Hotel Vicksburg		
WNBX 1260	1000	Springfield, Vt.	WQDM 1370	100	St. Albans, Vt.
WNBX Broadcasting Corp., 39 Main St.			42 N. Main St.		
WNBZ 1290	100	Saranac Lake, N. Y.	WRAK 1370	100	Williamsport, Pa.
Smith & Mace, 70 Broadway			WRAX, Inc., 244 W. 4th St.		
WNEL 1290	500	San Juan, P. R.	WRAW 1310	100	Reading, Pa.
Box 1252			Reading Broadcasting Co., 533 Penn St.		
WNEW 1250	1000	Newark, N. J.	WRAX 920	250	Philadelphia, Pa.
Wodaam Corp., 1060 Broad			WRAX Broadcasting Co., 217 E. Broad St.		
WNOX 1010	1000	Knoxville, Tenn.	WRBL 1200	100	Columbus, Ga.
WNOX, Inc., Hotel Andrew Johnson			Royal Theatre Bldg.		
WNRA 1420	100	Muscle Shoals, Ala.	WRBX 1410	250	Roanoke, Va.
Kathryn Jones, P. O. Box 486, Sheffield, Ala.			P. O. Box 2389		
WNYC 810	1000	New York, N. Y.	WRC 950	500	Washington, D. C.
Centre & Duane Sts.			National Press Bldg.		
WOAI 1190	50000	San Antonio, Texas	WRDO 1370	100	Augusta, Me.
Southeast Industries, Inc., 1038 Navarro			WRDO, Inc., Augusta House		
WOC 1370	100	Davenport, Iowa	WRDW 1500	100	Augusta, Ga.
Palmer School of Chiropractic			Augusta Bldg. Co., 309 8th St.		
WOCL 1210	50	Jamestown, N. Y.	WREC 600	1000	Memphis, Tenn.
A. E. Newton, 840 N. Main St.			WREC, Inc., Hotel Peabody		
WOI 640	5000	Ames, Iowa	WREN 1220	1000	Lawrence, Kans.
Iowa State College			Jenny Wren Co., 8th and Vermont St.		
WOKO 1430	500	Albany, N. Y.	WRGA 1500	100	Rome, Ga.
WOKO, Inc., Hotel Ten Eyck			10 Thrd Ave.		
WOL 1310	100	Washington, D. C.	WRJN 1370	100	Racine, Wis.
American Broadcasting Co., Annapolis Hotel			Racine Broadcasting Corp., Hotel Racine		
WOMT 1210	100	Manitowoc, Wis.	WROK 1410	500	Rockford, Ill.
Francis M. Kadow, Box 326			109 So. Water St.		
WOOD 1270	500	Grand Rapids, Mich.	WROL 1310	100	Knoxville, Tenn.
Grand Rapids Natl. Bank Bldg.			Stuart Broadcasting Corp., 524 S. Gay		
WOPI 1500	100	Bristol, Tenn.	WRR 1280	500	Dallas, Texas
22nd & State Sts.			City of Dallas, Southland Life Bldg.		
WOR 710	5000	Newark, N. J.	WRUF 830	5000	Gainesville, Fla.
147 Market St.			State University		
WORC 1280	500	Worcester, Mass.	WRVA 1110	5000	Richmond, Va.
Alfred F. Kleinclent, 60 Franklin St.			Larus & Bros Co., Inc., 22nd and Gary St.		
WORK 1320	1000	York, Pa.	WSA 1330	1000	Cincinnati, Ohio
York Broadcasting Co., 15 S. Beaver St.			Crosley Radio Corp., 1329 Arlington		
WOS 630	500	Jefferson City, Mo.	WSAJ 1310	100	Grove City, Pa.
State Highway Control, Capitol Bldg.			Grove City College, 418 Poplar St.		
WOSU 570	750	Columbus, Ohio	WSAN 1440	500	Allentown, Pa.
Ohio State University			WSAN, Inc., 39 10th St.		
WOV 1130	1000	New York, N. Y.	WSAR 1450	250	Fall River, Mass.
16 E. 42nd St.			Academy of Music Bldg.		
WOW 590	1000	Omaha, Neb.	WSAZ 1190	1000	Huntington, W. Va.
Woodmen of the World, 4th and Farnam			WSAZ, Inc., P. O. Box 729		
WOWO 1160	10000	Fort Wayne, Ind.	WSB 740	50000	Atlanta, Ga.
Main Auto Supply Co., 213 W. Main			Atlanta Journal, 7 N. Forsyth St.		
WPAD 1420	100	Paducah, Ky.	WSBC 1210	100	Chicago, Ill.
2201 Broadway			Gene T. Dyer, 1258 S. Michigan Ave.		
WPAX 1210	100	Thomasville, Ga.	WSBT 1360	500	South Bend, Ind.
H. Wimpy, 135 E. Jackson St.			South Bend Tribune, 225 W. Colfax Ave.		
WPEN 920	250	Philadelphia, Pa.	WSFA 1410	500	Montgomery, Ala.
22nd & Walnut Sts.			Jefferson Davis Hotel		

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WGSN 1310 100 Birmingham, Ala.
R. B. Broyles, Tutwiler Hotel

WSIX 1210 100 Springfield, Tenn.
638 Tire & Vulcanizing Co.

WSJS 1310 100 Winston-Salem, N. C.
Winston-Salem Journal Co., 416 N. Marshall

WSM 650 50000 Nashville, Tenn.
301—7th Ave. No.

WSMB 1320 500 New Orleans, La.
WSMB, Inc., Malson Blanche Bldg.

WSMK 1380 200 Dayton, Ohio
WSMK Inc., 4th and Main St.

WSOC 1210 100 Charlotte, N. C.
WSOC, Inc., Box 730

WSPA 920 1000 Spartanburg, S. C.
Virgil V. Evans, Ravenal & Avant St.

WSPD 1340 1000 Toledo, Ohio
Toledo Broadcasting Co., 505 Jefferson

WSUI 880 500 Iowa City, Iowa
State University of Iowa

WSUN 620 1000 St. Petersburg, Fla.
Chamber of Commerce

WSVA 550 500 Staunton, Va.
Marion K. Gilliam

WSVS 1370 50 Buffalo, N. Y.
666 E. Delavan Ave.

WSYB 1500 100 Rutland, Vt.
Philip Weiss Music Co., 80 West St.

WSYR 570 250 Syracuse, N. Y.
E. Onondaga & S. Warren Sts.

WTAD 1440 500 Quincy, Ill.
Illinois Brdcastg. Corp., State and 6th

WTAG 580 500 Worcester, Mass.
18 Franklin St.

WTAM 1070 50000 Cleveland, Ohio
1367 E. 6th St.

WTAQ 1330 1000 Eau Claire, Wis.
Gillette Rubber Co., Hotel Eau Claire

WTAR 780 500 Norfolk, Va.
WTAR Radio Corp., Wainwright Bldg.

WTAW 1120 500 College Station, Tex.
Agricultura land Mechanical College

WTAX 1210 100 Springfield, Ill.
WTAX, Inc., 416 E. Capitol Ave.

WTBO 800 250 Cumberland, Md.
Associated Brdcastg. Corp., Box 704

WTCN 1250 1000 Minneapolis, Minn.
Wesley Temple Bldg.

WTEL 1310 100 Philadelphia, Pa.
Broad & Erie Ave.

WTFI 1450 500 Athens, Ga.
133 E. Washington St.

WTIC 1040 50000 Hartford, Conn.
26 Grove St.

WTJS 1310 100 Jackson, Tenn.
Sun Publishing Co., Sun Bldg.

WTMJ 620 1000 Milwaukee, Wis.
The Journal Co., 333 W. State St.

WTNJ 1280 500 Trenton, N. J.
Trenton Brdcastg. Co., Stacy Trent Hotel

WTOC 1260 1000 Savannah, Ga.
Savannah Brdcastg. Co., De Soto Hotel

WTRC 1310 50 Elkhart, Ind.
Truth Radio Corp., Hote Elkhart

WVFW 1400 500 Brooklyn, N. Y.
Paramount Brdcastg. Co., 1 Nevins St.

WWAE 1200 100 Hammond, Ind.
402 Hammond Bldg.

WWC 1420 1000 Spartanburg, S. C.
Virgil V. Evans, Ravenal & Avant St.

WWJ 920 1000 Detroit, Mich.
Evening News Assn., 616 Lafayette Blvd.

WWL 850 10000 New Orleans, La.
Loyola University, Roosevelt Hotel

WWNC 570 1000 Asheville, N. C.
Citizen Brdcastg. Co., Inc., Flatiron Bldg.

WWPA 850 250 Clarion, Pa.

WWRL 1500 100 Woodside, N. Y.
4130—58th St.

WWSW 1500 100 Pittsburgh, Pa.
Hote Schenley

WWVA 1160 5000 Wheeling, W. Va.
Hawley Bldg.

WXYZ 1240 1000 Detroit, Mich.
Madison Theatre Bldg.

WLXBS 1530 1000 Waterbury, Conn.
61 Leavenworth St., Amer. Republican, Inc.

WZXR 1550 1000 Long Island City, N. Y.
Scientific Brdcastg. Serv., 41 Park Row, N. Y.

W6XA 1550 1000 Bakersfield, Calif.
Pioneer Mercantile Co.

WSXBY 1530 1000 Kansas City, Mo.
First National Television Inc.

XEA 1060 125 Guadalupe, Jal.
Alberto Palos Souza, Apdo. 197

XEAA 920 200 Mexicali, B. C.
Carlos Blando, Apto. 42

XEAF 540 250 Nogales, Son.
Francisco G. Elias, Hotel Central

XEAI 1240 100 Mexico City, D. F.
Carlos Gonzales Caballero, Insurgentes 386

XEAJ 1310 15 Cazaca, Cam.
Enrique M. Crihuela, 3a, Guerrero 18

XEAM 960 50 Nuevo Laredo, Tams.
Edificio Banco Longoria

XEAO 560 250 Mexicali, B. C.
Luis L. Castro, C. Altamirano 156

XEAW 960 10000 Reynosa, Tams.
Internacional Broadcasting Co., S. A.

XEAZ 1420 7 Guanajuato, Gto.
Antonio Zavala, Pasco de la Presa 85

XEB 1030 10000 Mexico City, D. F.
El Buen Tono, S. A., Apdo. 79-44

XEBC 730 5000 Agua Caliente, B. C.
Alberto V. Aldrete

XEC 1310 50 Tijuana, B. C.
Luis F. Enciso, Teatro Zaragoza

XECW 1310 10 Mexico City, D. F.
Maria Elena Bravo de Cordero Ave. Juarez 104

XED 1160 500 Guadalupe, Jal.
Cla. Radiofonografica, Apdo. 197

XEE 1210 50 Durango, Dgo.
20 de Nov. 112 (Apdo. 148)

XEFA 1180 500 Mexico City, D. F.
Eduardo Limon Segui, Mediterraneo 236

XEFB 1420 100 Monterrey, N. L.
Jesus Quintanilla, P. O. Box 317

XEFC 1310 100 Merida, Yuc.
J. Molina Font, Calle 59, 517

XEFE 920 250 Laredo, Tams.
R. T. Carranza, Km. 4 Carretera Laredo Mt.

XEFG 1100 250 Mexico City, D. F.
Ricardo Gonzales Montero, Teple 48

XEFI 1440 250 Chihuahua, Chih.
Feliciano Lopez Isles, Ap. 157

XEFJ 1230 100 Monterrey, N. L.
R. Junco de la Vega, P. O. Box 186

XEFL 1160 500 Tijuana, B. C.
(P. O. Box 6, San Diego, Calif.)

XEFO 940 5000 Mexico City, D. F.
Reforma No. 137

XEFV 1210 100 Jaurez, Chih.
Cordova & Prieto, Ave. Ferrocarril 1104

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<p>XEFW 1310 250 Tampico, Tams. J. E. Martinez, Salvador Diaz Miron 6</p> <p>XEFZ 1370 100 Mexico City, D. F. Manuel Zetina, Calzada Nonoalco 481</p> <p>XEG 1270 500 Ensenada, B. C. Juan C. Chavez</p> <p>XEH 1150 250 Monterrey, N. L. Tarnava y Cia, P. O. Box 147</p> <p>XEI 1370 125 Morelia, Mich. Carlos Gutierrez M., F. I. Madero 645</p> <p>XEJ 1020 1250 Juarez, Chih. Juan G. Buttner, P. O. Box 111</p> <p>XEK 990 100 Mexico City, D. F. Arturo Martinez, Jalapa No. 51</p> <p>XEKL 1240 500 Leon, Guan. 5 de Mayo 26</p> <p>XELA 1240 50 Saltillo, Coah. Enrique Gomez, Chauhtemos 28 Sur</p> <p>XELC 740 100 Mexico City, D. F. Manuel Valdes Bravo, C. Central 112</p> <p>XELM 1310 15 Mineral del Monte, Dgo. Jose Sanchez, Abesolo 1-A</p> <p>XEMA 1080 50 Tampico, Tams. Manuel M. Pler, Aretsanos 10</p> <p>XEMO 865 2500 Tijuana, B. C. P. O. Box 202, San Diego, Calif.</p> <p>XEMX 1280 12 Mexico City, D. F. Alfonzo T. Avales</p> <p>XEN 710 1000 Mexico City, D. F. Cerveceria Modelo Ave. Juarez 77</p> <p>XENT 910 60000 Nuevo Laredo, Tams. Box 410, Laredo, Texas</p> <p>XEOX 840 250 Saltillo, Coah. Victoria No. 4, Altos.</p> <p>XEP 840 500 Mexico City, D. F. Cia Difusora de Mexico S. A., Rembrandt 11</p> <p>XEPN 590 50000 Piedras Negras, Coah. Piedras Negras Brdcsjg. Co., Madero 53</p> <p>XES 990 250 Tampico, Tams. Fernando Sada, Box 309</p>	<p>XET 690 500 Monterrey, N. L. P. O. Box 203, Hidalgo</p> <p>XETB 1310 125 Torreon, Coah. Jose A. Berumen, R. Corona 317</p> <p>XETF 1220 12 Veracruz, Ver. Jose M. Lopez, Independencia 20</p> <p>XETH 1210 100 Puebla, Pue. Ramon Huerta G., Calle 17 Oriente 11</p> <p>XETW 820 500 Mexico City, D. F. Rafael M. Pena, Ave. 16 de Sep. 83</p> <p>XEU 1160 250 Veracruz, Ver. Fernando Pazos Sosa, Independencia 98</p> <p>XEW 890 50000 Mexico City, D. F. P. O. Box 2516</p> <p>XEWZ 1150 100 Mexico City, D. F. Medellin e Insurgentes</p> <p>XEX 1310 125 Monterrey, N. L. L. F. Petit Jean, P. O. Box 10</p> <p>XEXX 845 500 Mexico City, D. F. Av. Pino Suarez 9</p> <p>XEYZ 780 10000 Mexico City, D. F. Angel M. Diez, Ave. Juarez 48</p> <p>XEZ 630 500 Merida, Yuc. Jorge L. Falomeque, Estamores Ctd 214</p> <p>XEZZ 1370 100 San Luis Potosi, SLP Emilio Deigado R. Ave. Chicosein 32</p> <p>XFB 1270 1000 Jalapa, Ver. Gobierno del Estado de Veracruz</p> <p>XFC 810 350 Aguascalientes, Ags. Gobierno del Estado de Aguascalientes</p> <p>XFD 1340 350 Orizaba, Ver. Gobierno Estado de Veracruz</p> <p>XFO 940 5000 Mexico City, D. F. Nat. Rev. Party, Ave. Morelos 110</p> <p>XFX 610 1000 Mexico City, D. F. Secretaria de Educacion Publica</p> <p>10-AK 1200 15 Stratford, Ont. M. I. Higgins, 151 Ontario St.</p> <p>10-BP 1200 25 Wingham, Ont. W. T. Cruickshank, Box 65</p>
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100 Best Shortwave Stations by Call Letters

Frequencies are given in megacycles and the time is Eastern Standard. In this list, the location of the transmitter is given. For a more complete list of the shortwave stations by frequencies, by calls and by countries, see the *DX Log of the World*.

<p>Amateur phones are heard between 1.875 and 2.000 megs. 3.900 and 4.000 megs. 7.000 and 7.300 megs. (Foreign only).</p> <p>14.150 and 14.250 megs.</p> <p>Broadcast Pickup stations: 1.606; 1.622; 1.646; 2.102; 2.160; 2.190; 2.390.</p> <p>CJRO, Middlechurch, Man., 6.150. Relays Canadian Radio Com. programs, 8-11 p.m. and 11:30 to midnight.</p> <p>CJRX, Middlechurch, Man., 11.720. Same schedule as CJRO, Q. v.</p> <p>COC, Havana, Cuba, 6.010. 8:30 a.m. to 12:30 p.m.; 4-7 p.m. Sat., 11:30-12:30.</p> <p>COH, Havana, Cuba, 9.500. 5-6; 8-9 p.m.</p> <p>CP5, La Paz, Bolivia, 6.080. 8-9 p.m.</p> <p>CT1AA, Lisbon, Portugal, 9.600. Tues., Thurs., Fri., 4:30-7 p.m.</p>	<p>CT1GO, Lisbon, Portugal, 6.190. Sat., 8-9 p.m.; Tues, Thurs., 7:30-8:15 p.m. 12.330: Sat., Sun., 9-10 a.m.</p> <p>DJA, Zeesen, Germany, 9.560. Daily, 8-11:30 a.m.; 5:15-9:15 p.m.</p> <p>DJB, Zeesen, Germany, 15.200. 3:45-7:15 a.m.</p> <p>DJC, Zeesen, Germany, 6.020. Noon to 4:30 p.m.; 5:30-10:45 p.m.</p> <p>DJD, Zeesen, Germany, 11.760. Noon to 4:30 p.m.</p> <p>DJE, Zeesen, Germany, 17.760. Irregularly, Mornings.</p> <p>DJN, Zeesen, Germany, 9.540. 3:45-7:15 a.m.; 8-11:30 a.m.; 5:15-10:45 p.m.</p> <p>DIJQ, Zeesen, Germany, 15.280. 12:30-2 a.m.</p> <p>EACQ, Aranjuez, Spain, 9.862. 5:30-7 p.m.; Sat. noon to 2 p.m.</p>	<p>GBB, Rugby, England, 13.500. Phones Canada.</p> <p>GBS, Rugby, England, 12.150. Phones N.Y.</p> <p>GBU, Rugby, England, 12.240. Phones N. Y.</p> <p>GBW, Rugby, England, 14.440. Phones N. Y. 6-8 p.m.</p> <p>GSA, Daventry, England, 6.050. 10:45 a.m. to 12:45 p.m.; 4:30-5:45 p.m.; 6-8 p.m.</p> <p>GSB, Daventry, England, 9.510. 3-4 a.m.; 9:15 a.m. to noon; 1-5:45 p.m.</p> <p>GSC, Daventry, England, 9.580. 6-8 p.m.</p> <p>GSD, Daventry, England; 11.760. 3-5 a.m.; 1-4:30 p.m.</p> <p>GSE, Daventry, England, 11.860. 6-10:45 a.m.</p> <p>GSF, Daventry, England, 15.140. 6-9 a.m.</p>
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AROUND *the* CLOCK on the SHORT WAVES

MIDNIGHT TO NOON (EST)

GMT	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	COC DJQ VK2ME W3XAL W8XK W9XF XEBT	DJQ VK2ME W9XF		DJB DJN GSD GSF RV15	DJB DJN GSD GSF JVT JVT RV15 LKJ1 VK2ME VK3LR	DJB DJN HJV JVT JVU LKJ1 RV15 RNE VK2ME VK3LR VK3ME YDA	DJB DJN GSE GSF Rabat RV15 JVU LKJ1 RV15 VK2ME VK3LR VK3ME YDA	GSE GSF Pont. Rabat RV15 VE9GW VK2ME VK3LR W1XAZ W8XK	DJA DJN GSF HAS3 PCJ PHI Pont. Rabat. VE9GW W1XAZ W8XK	DJA DJN GSB GSE PCJ PHI Pont. VE9GW W1XAZ W8XK	DJA DJN GSA GSB GSE HJV PCJ PHI Pont. RNE VE9GW W1XAZ W8XK W3XAL	DJA DJN GSA GSB GSA Pont. Rabat. VE9GW W1XAZ W8XK

NOON TO MIDNIGHT (EST)

GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1:00	2:00	3:00	4:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJC DJD EAQ GSA Pont. VE9GW W1XAZ W3XAL W3XAU W3XL W8XK W9XAA	DJC DJD EAQ GSB GSD IRO Pont. VE9GW W1XAZ W3XAL W3XAU W3XL W8XK W9XAA XEBT	DJC DJD GSB GSD IRO Rabat ORX W1XAZ W2XAD W3XAL W3XAU W3XL W8XK W9XAA XEBT	DJC DJD GSB GSD IRO ORX W1XAZ W2XAD W3XAL W3XAU W3XL W8XK W9XAA XEBT	COC CT1AA DJC DJD GSA GSB GSD IRO LCL Pont. HJ1ABB Rabat PRF5 RV59 W1XAZ VE9GW W2XE W3XAU W3XL W8XK W9XAA XEBT YV3RC	COC COH CT1AA DJA DJN DJC EAQ GSA GSB HBL HJ1ABB Pont. PRF5 Rabat RV59 VE9GW W1XAL W1XAZ W2XE W3XAL W3XAU W3XL W8XK W9XAA XEBT YV3RC YV4RC YV5RMO	COC CT1AA DJA DJN DJC EAQ GSA GSC HC2RL HJ1ABB HJ1ABG HP5B HJ1ABB HJ2ABC IRA Pont Rabat W2XAF W2XE W1XAL W3XAL W3XAU W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	DJA DJC DJN GSA GSC HC2RL HJ1ABB HAT HJ1ABG HP5B HJ1ABB HP5B TIEP TIXGP3 W2XAF W2XE W1XAL W3XAL W3XAU W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJRXX COH CP5 DJA DJN DJC HAT HJ1ABB HP5B OAX4D PRADO TIXGP3 VE9GW W1XAZ W2XAF W2XE W3XAL W3XAU W8XK W9XAA XEBT YV2RC	CJRO CJRXX DJN DJC HC2RL HC2ET HC2RL HIX HJ1ABB HP5B OAX4D PRADO TIXGP3 VE9GW W1XAZ W2XAF W2XE W3XAL W3XAU W8XK W9XAA XEBT YV2RC	CJRO CJRXX DJC DJN HC2RL HC2ET HP5B OAX4D PRADO TIXGP3 VE9GW W1XAZ W2XAF W2XE W3XAL W3XAU W8XK W9XAA XEBT YV2RC	CJRO CJRXX COC W1XAZ W3XAL W3XAU W8XK W9XAA W9XF

HASS, Skekesehevar, Hungary, 15.370. Sun., 8-9 a.m.
HAT, Skekesehevar, Hungary, 5.400. Sun., 8-9 p.m.
HBL, Frangins, Switzerland, 9.595. Sat. 5:30-6:15 p.m.
HBF, Frangins, Switzerland, 7.797. Sat. 5:30-6:15 p.m.
HCJB, Quito, Ecuador, 8.200. 8:15-10:15 daily except Monday.
HCZET, Guayaquil, Ecuador, 4.600. Fri., Sat., 9:30-11 p.m.
HCZRL, Guayaquil, Ecuador, 6.659. Tues. 9:14-11:14 p.m.; Sun. 5:45-7:45 p.m.
HIIH, San Pedro de Macoris, D. R., 6.810. 4-7:30 p.m.
HIX, Santo Domingo, D. R., 5.948. Tues. and Fri., 8-10 p.m.
HIIA, Santiago de los Caballeros D.R., 6.240. 7:30-9:30 p.m. daily.
HI-4-D, Santo Domingo, D.R., 6.500. 4:40-7:40 p.m.
HJA2, Bogota, Colombia, 5.825.
HJA3, Barranquilla, Colombia, 12.830
HJB, Bogota, Colombia, 14.930.
HJN, Bogota, Colombia, 6.080. Tests irreg.
HJLABB, Barranquilla Colombia, 6.447. 5-10 p.m.
HJLABE, Cartagena, Colombia, 6.115. Monday, 10-mid., Wed., 8-10 p.m.
HJLABG, Barranquilla, Colombia 6.042. 7-10 p.m.
HJZABC, Cucuta, Colombia, 5.975.. 6-9 p.m.
HJ3ABD, Bogota, Colombia, 7.406. "Colombia Broadcasting." 6-9 p.m. daily.
HJ4ABB, Manizales, Colombia, 7.200. Wed., 8-9 p.m.; Sun., 3-6 p.m.
HJ4ABE, Medellin, Colombia, 5.900. 7-11 p.m.
HJ5ABD, Cali, Colombia, 6.490. Thurs., Sat., Sun., 7-9 p.m.
HPF, Panama City, Panama, 14.545. Phones Hialeah.
HPF5, Panama City, Panama, 6.030. 7-10:30 p.m.
HSJ, Bangkok, Siam, 7.980.
HVJ, Vatican City, 15.120. 5-5:15 a.m. daily except Sunday. Occasionally from 10-10:30 a.m.
IRA, Rome, Italy, 6.070. Mon., Wed., Fri., 6-7:30 p.m.
IRE, Rome, Italy, 11.810.
IRO, Rome, Italy, 9.780. 2:30-5 p.m. daily; Mon., Wed., Fri., 7:45-9:15 p.m.
IS3, Bolling Field, Va., 6.412.
I2RO, Rome, Italy, 5.550; 5.725; 5.725; 6.980; 9.630; 4-7 p.m. irreg.
JVE, Nazaak, Japan, 15.060. Phones Java, nights.
JVF, Nazaak, Japan, 15.620. Phones Dixon, 5-11 p.m.
JVQ, Nazaak, Japan, 7.470. Phone.
JVT, Nazaak, Japan, 6.750; 4-8 a.m.
JVU, Nazaak, Japan, 5.790. 4-8 a.m.
KAY, Manila, P. I., 14.980. Phones Dixon.
KKH, Kahuku, T. H., 7.520. Phones Dixon.
KKP, Kahuku, T. H., 16.030. Phones Dixon.
KNRA, "Seth Parker", 6.160; 6.660; 6.670; 8.230; 8.820; 8.840; 13.200
KWO, Dixon, Calif., 15.415. Phones Hawaii and Manila.
KWU, Dixon, Calif., 15.355. Phones Japan.
KWX, Dixon, Calif., 7.610. Phones Hawaii.
LCL, Jeloy, Norway, 6.130. 11 a.m. to 5 p.m.
LKJ1, Jeloy, Norway, 9.540. 5-8 a.m.
OAX4D, Lima, Peru, 5.780. Wed. and Sat., 9-11:30 p.m.
ORX, Ruyssedele, Belgium, 10.330. 2:45-4:15 p.m.
PCJ, Hliversum, Netherlands, 15.220. Sun., 8-11 a.m.
PHI, Hliversum, Netherlands, 11.725. 8-11 a.m.
Police Stations, on frequencies: 1.596; 1.634; 1.642 1.658 1.666 1.674; 1.682; 1.706 1.712 2.382 2.406; 2.414; 2.416 2.422 2.430; 2.442; 2.450; 2.452 2.458 2.466; 2.474; 2.482; 2.490.
PRAD0, Riobamba, Ecuador, 6.618. Thurs., 9-11:30 p.m.
PRF5, Rio de Janeiro, Brazil, 9.505. 5:30-8:15 p.m.
Radio Coloniale, Pontoise, France, 11.710; 1:15-5 p.m.; 5:15-9 p.m.; 10 p.m. to midnight.
11.905; 11:15 a.m. to 5 p.m. 15:243; 7:30-11 a.m.
Rabat, Morocco, 8.035. Sun., 11 a.m. to noon, 2-7 p.m.
12.830. Sun., 7-9 a.m.
RKL, Moscow, U.S.S.R., 7.520. Phones USA.
RNE, Moscow, U.S.S.R., 12.000. Sun., 6 a.m. and 10 a.m.
RV15, Khabarovsk, U.S.S.R., 4.273. 3-9 a.m.
RV59, Moscow, U.S.S.R., 5.996. 3-6 p.m.
TGX, Guatemala City, Guatemala 5.937. Sun., 1-3 a.m.; other days, 8-12 p.m.
TIEP, San Jose, Costa Rica, 6.710. 7-10 p.m.
TIXGP3, San Jose, Costa Rica, 5.820. 7-10 p.m.

With Our Readers' Compliments

"I must thank you for your fine magazine which without doubt is the finest of its sort in existence."

John M. Wheeler, Lee-on-the-Solent, Hampshire, England.

"I have just been introduced to your DX Log of the World and I want to tell you that I think it is the most useful packet of s. w. news I have ever struck."

W. H. Pierce, 6 Glanfield Road, Beckenham, Kent, England.

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Wilfrid J. Hambly, 52 Culverden Road, Balham, S. W. 12, London, England.

"May I say that RADEX and the DX Log of the World are the finest I have ever found? Judging from their scarcity on the newsstands here, there are a number of other radio fans of the same opinion."

Wallace Cowen, 817 N. 20th, Boise, Idaho.

"RADEX is certainly a 'builder-upper' when it comes to compiling a nice log of verifications."

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Bruce P. Lundy, Jr., R. D. 1, Box 121, Jersey Shore, Pa.

VE9GW, Bowmanville, Ont., 6.095. Sun. noon to 8 p.m.; Mon., Tues., Wed., 2-11 p.m.; Thur., Fri., Sat., 8 a.m. to 11 p.m.

VE9HX, Halifax, N. S., 6.110. 5-11 p.m.

VK1, Seltridge Field, Mich., 6.425.

VK2ME, Pennant Hills, Australia, 9.585. Mid. to 2 a.m. and 4:30-8:30 a.m., Sundays only.

VK3LR, Melbourne Australia, 9.580. Daily exc. Sun. 4-8 a.m.

VK3ME, Braybank Australia, 9.503. Wed., 5-6:30 a.m.; Sat. 5-7 a.m.

VUB, Bombay, India, 9.565. Testing Sunday, 7 a.m.

WOO, Ocean Gate, N. J., 4.273; 4.753; 8.560; 12.840. Phones Ships.

W1XAL, Boston, Mass., 6.040. Tues., Thurs., 7:30-9:30; Sunday, 5-7 p.m.

W1XAZ, Mills, Mass., 9.570. 6 a.m. to midnight.

W2XAD, Schenectady, N. Y., 15.340. 2:30-3:30 p.m.

W2XAF, Schenectady, N. Y., 9.530. 7:40-11 p.m.

W2XE, Wayne, N. J., 6.120. 6-11 p.m.

11.830. 3-5 p.m.

15.270. 11 a.m. to 1 p.m.

W8XAL, Boundbrook, N. J., 6.100. Mon., Wed., Sat., 5 p.m. to midnight.

17.780. Daily exc. Fri., 8 a.m. to 2 p.m.

W8XAU, Newton Sq., Pa., 6.060. 8 p.m. to 11 p.m.

9.590. Noon to 8 p.m.

W8XLI, Boundbrook, N. J., 17.310. Fri., 11 a.m. to 5 p.m.

W8XAL, Mason, Ohio, 6.060. Irregular.

W8XK, Saxonburg, Pa., 6.140. 4:30 p.m. to 12:30 a.m.

11.870. 4:30-10 p.m.

15.210. 10 a.m. to 5:15 p.m.

21.540. 7 a.m. to 2 p.m.

W9XAA, Chicago, Ill., 6.080. Sun., 11:30 a.m. to 9 p.m.

Tues. Thur. Sat. 4-12 p.m.

Mon., Wed. Fri. 4:30-7 p.m.

W9XF, Downer's Grove, Ill., 6.100. Daily exc. Sat. and Sun., 4:30. 8 p.m.; 9:30 p.m. to 2 a.m.

Sunday, 4:30-7 p.m. and 9 p.m. to 2 a.m.

XEBT, Mexico City, D. F., 6.010. Relays XEB, 10 a.m. to 11 p.m.

XGO, Shanghai, China, 7.575.

YDA, Bandoeng, Java, 6.116. A NIROM station.

YNA, Managua, Nicaragua, 14.480. Phones Hialeah.

YNLF, Managua, Nicaragua, 6.950. 7-8; 10-11 p.m.

YVQ, Maracay, Venezuela, 6.672. Relays Caracas BC stations occasionally.

YVR, Maracay Venezuela, 9.168. Phones Madrid.

YV2RC, Caracas, Venezuela, 6.112. 5:15-10 p.m.

YV3RC, Caracas, Venezuela, 6.150. 6-10 p.m.

YV4RC, Caracas, Venezuela, 6.375: 4:30-10:30 p.m.

YV5RMO, Maracaibo, Venezuela 5.850: 5:15-10:15 p.m.

YV6RV, Valencia, Venezuela, 6.030. "La Voz de Carabobo."

ZFB, St. George, Bermuda, 10.060.

ZFS, Nassau, Bahamas, 4.513.

The Cadena Indo-Americano includes stations: HJ1ABH, PRADO, TIEF, YNLF, YV4RC, YV5RMO.

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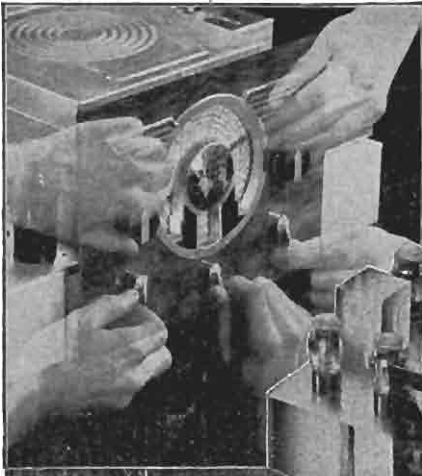
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