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THE MARCH, 1935

# RADIO INDEX

THE ALL-WAVE RADIOMAGAZINE



25<sup>c</sup>

Monday's and Tuesday's Time on the Air  
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

N. S. E.

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The Superheterodyne Receiver.  
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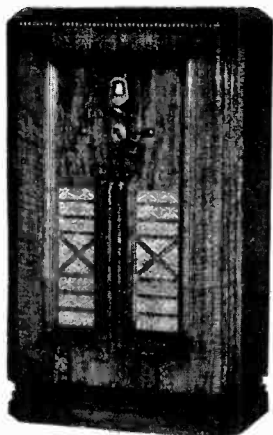
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March 1, 1935



# RADIO INDEX

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*Short Wave Editor*

ELEVENTH YEAR

NUMBER 87

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# Which is the BEST ANTENNA?

• • • By B. FRANCIS DASHIELL

**A**NY 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.

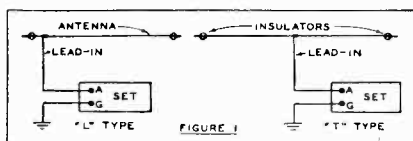
Shall the antenna be a single wire—short or long, or a new doublet system? Does one antenna serve equally well with broadcast and short-wave receivers? Must the lead-in be shielded? If so, how? Which is best—twisted, transposed or parallel lead-ins? Where should the antenna be located? What is the best 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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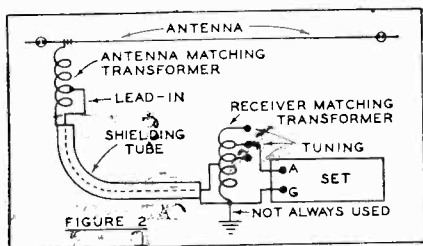
WORLD-WIDE  
**ANTENNA  
SYSTEM**

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 required. The old Marconi antenna will 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.

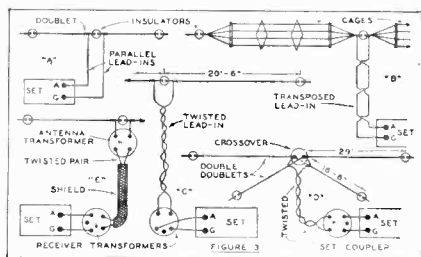
### Erecting The Doublet

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 *Philo*, *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.
  - RL8, 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, Dairen, Manchuria. Claimed by Charles Hesterman, Saskatoon, Sask.
  - 2KO, Newcastle, Australia. Claimed by Charles Hesterman, Saskatoon, Sask.
  - CT1GL, Parede, Portugal. Claimed by Art. Collins, Buffalo, N. Y.
  - OKB, Brno, Czechoslovakia. Claimed by Gerald Vail, East Marion, N. Y.
  - 2XX, 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, 1ZH, 1ZR, 2ZF, 2ZH, 2ZI, 2ZW, 3ZR, 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

**T**HE 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 Skekesfehear, near Budapest, but the two chosen for these programs are HAS3 on 15.370 meg. or 19.51 meters, and HAT, 5.400 meg. 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, Gyali St. 22, Budapest, Hungary.

## About HP5B

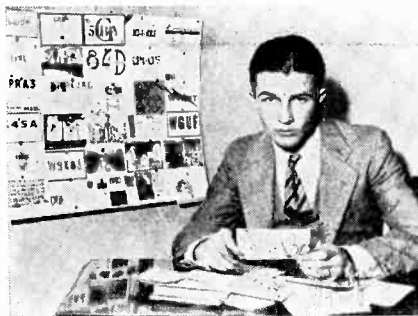
"Following is some information on the new Panamanian station, taken from their verification card," contributes Donald Smith, 12 South St., Woburn, Mass. "The call letters are HP5B and the wave, 49.75 meters, 6030 kcs. The name of the station is Estacion Radiodifusora Miramar de la Radio Panama, S. A. 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 Sea-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 Flatt 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 kes. during the afternoons and W8XK on 6140 kes. 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 kes. 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 kes. 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 kes. 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 Patterson 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.

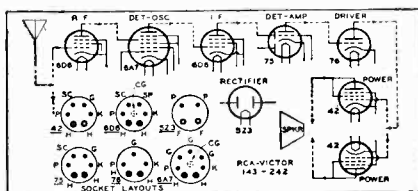
Model 242, which uses the same chassis as model 143, is an eight-tube superheterodyne set. It has a tuning range that embraces four wave bands. The long wave, or famous RCA-Victor "X" band, covers a range from 140 to 410 kilocycles. This band brings to the listener the business of aviation as well as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

some European stations to be heard on this band.

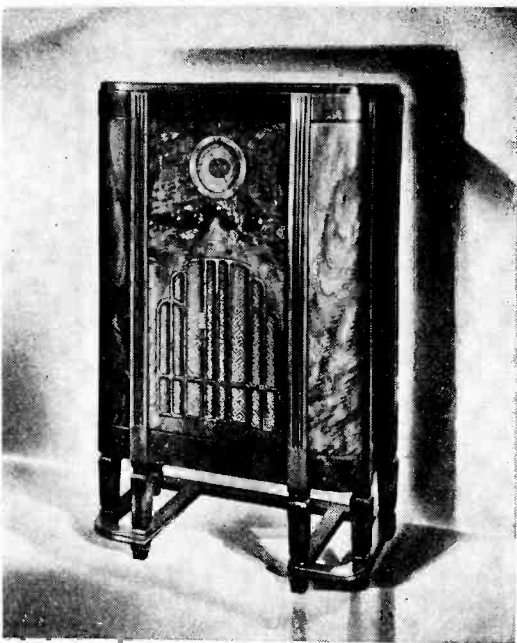
## Four Wave Bands

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"



**B**EATRICE 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 "hip-po 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

**A**FTER 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"

**W**E 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 WEAF 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.

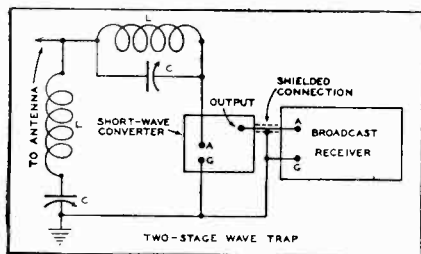
In closing, here is a kink which may prove of value to those who use head-phones. I came across it by accident and it seems to help greatly when the static is bad as it clears it up so that you can listen to those stations which come in strong but can't be understood because of the static. Simply pull 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.

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\*104 Front Street, Fargo, N. Dak.

# Noises, Whistles, Weak Signals, Etc.

• • • By THE TECHNICAL EDITOR



**T**HE 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 failing 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 leadin 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

**H**ELLO 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, W8NK, W2NE, 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 2 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."

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## A Radex Special

**S**TATION CRCS, Chicoutimi, Quebec, cn 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

**S**OONER 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 Canada, 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-

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 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 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



*Peg La Centra, diminutive contralto, who is featured with Harry Reser and his Spearmint crew over the WFAF 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 announcer over a Boston station while still in school.*



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 hcb 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, H1A, H1H, KNRA, PPQ, OA4AD and HP7B. 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 Lus 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 WEAJ 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 KFXM, 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 Hillsdale 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, HHM, PLC, and CEA. My best foreign amateur is ZS1C 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 neotrodyne."

"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, KGOV, KGDM, KFVD, KXA, KWJJ, KPSG, 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 Coasters, 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 kes. 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. Or 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-watters 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, I1RO, 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\*

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.*

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## 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.

"Birnbach" All-Wave Antenna; Birnbach 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

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 IIMI, 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."

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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.

Darien, JQAK.  
Manchukkwo, 15th Dec., 1934  
Mr. Charles Hesterman,  
2214 Herman Ave.,  
Saskatchewan, Canada.  
Gentlemen:

It is a very great pleasure for yours faithful fan 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.

## Four Years for NERC

**T**HE 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.

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## Penny Wise and Pound Foolish

**B**ILL 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

**F**ROM 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 kes.,

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 Ziegfeld 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

**I**T 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: Hamburg, 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."

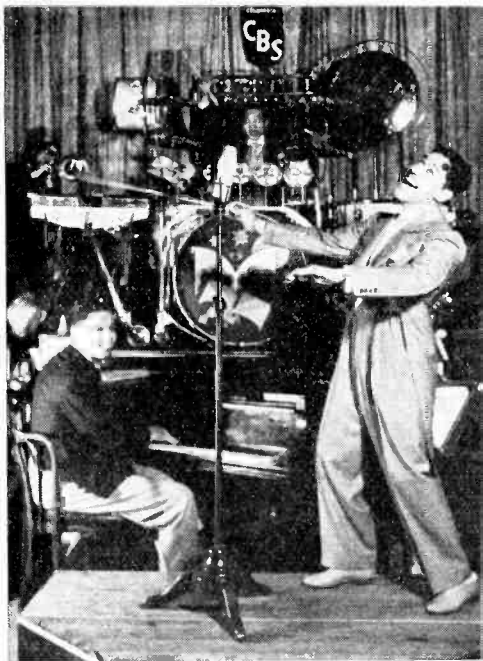
From M. E. Smith, 259 Chester St., Painesville, Ohio: "On Jan. 8, I received LR5 and kept them for three-quarters of an hour from 2:30 to 3:15 a.m. This month I have received CJLS, CKSJ, CKX, CKCD, CHGS, CKMC, CHML and VE9EK. This makes 34 in Canada for me—all of the provinces. I have received 25 K stations 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, W1XBS 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
	KRKC	Los Angeles, 500 to 1000
1280	WIBA	Nadison, 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	NEP	Mexico City from 820
920	NEFE	Nuevo Laredo from 1370
960	XEAM	Nuevo Laredo from 750
990	XES	Tampico, Tams., from 970
1160	NEU	Veraeruz, 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	Aklayvik, N. W. T.
	WMFN	Clarksdale, Miss
1220	NETF	Veraeruz, Ver.
1240	NELA	Salttillo, 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	Lewisston, Idaho
	WPRP	Ponce, P. R.
	NEAZ	Guanajuato, Gto.

### DELETED

1200	WBHS	Huntsville, Ala.
	IOBU	Canora, Sask.

### PERMIT TO MOVE

600	WMT	Waterloo, Iowa, to Cedar Rapids
1210	WGCM	Gulport, Miss., to Mississippi City
1370	WHBD	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 KFI 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."

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## 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 varies 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."

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## Suggests Records for Announcements

**W** HY 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.

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## Tuning in the Overseas Stations

**O**N 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 re-appeared on December 14. Now I have 37 of them logged. When the Europeans are coming through, PP, Toulouse, Bordeaux, IITO, 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."

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## Reception in England

**W**ILFRED 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.)

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## Suggesting a Uniform System of Logging

● ● ● By HOWARD L. SPIES

**I**N 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.

3. Count as one station such combinations as WBZ-WBZA, WLS-WENR, WOOD-WASH, WFLA-WSUN, etc.
4. Never include s.w. stations in your reports without identifying them as such, thus: 159 b.c. and 38 s.w.
5. *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.

<b>DAILY</b>				<b>March 10, 24</b>			
11:00-11:05	VAS	685 2000	Clear Bay	2:00-3:00	CMBS	775 150	Havana
12:00-1:00	WFLA	620 1000	Gleewater				
	WMC	780 1000	Memphis		<b>March 3, 10, 17, 24</b>		
12:00-6:00	KFAC	1300 1000	Los Angeles	12:00-3:00	CMCD	955 150	Havana
12:00-8:00	KJBS	1070 100	San Francisco	1:00-1:15	KOMA	1480 5000	Oklahoma City
1:00-7:00	WEDC	1210 100	Chicago	2:00-4:00	XEMO	865 2500	Tijuana
5:30-7:00	WSPA	1420 100	Spartanburg	2:00-6:00	TGW	565 10000	Guatemala
6:00-7:00	KFBI	1050 5000	Ablene	3:00-5:00	CKOV	630 100	Kelowna
					CFCT	1450 75	Victoria
				4:00-5:00	CFJC	880 100	Kamloops

<b>Sunday Mornings</b>				<b>Monday Mornings</b>			
<b>March 3</b>				<b>March 4</b>			
2:00-3:00	CRCS	950 100	Chicoutimi	2:00-2:20	WCNW	1500 100	Brooklyn
2:00-4:00	CHAB	1200 100	Moose Jaw		WJAC	1310 100	Johnstown
3:00-3:20	KLCN	1290 100	Blytheville	2:10-2:30	WFAS	1210 100	White Plains
3:30-3:50	KXYZ	1440 250	Houston		WRAK	1370 100	Williamsport
3:50-4:10	KTUL	1400 250	Tulsa	2:20-2:40	WBNF	1500 100	Binghamton
4:00-4:20	KPAC	1260 500	Pt. Arthur		WCHS	580 500	Charleston
4:10-4:30	KODY	1340 250	Huron	2:30-2:50	WAGM	1420 100	Presque Isle
4:20-4:40	KRGV	1260 500	Weslaco		WBTM	1370 100	Danville
4:50-5:10	KARK	890 250	Little Rock	2:40-3:00	WLVA	1200 100	Lynchburg
5:00-5:20	ROKO	570 500	Wichita Falls	2:50-3:10	WHDL	1420 100	Olean
5:20-5:40	WNAD	1010 500	Norman		WHAT	1310 100	Philadelphia
5:40-6:00	KUOA	1260 1000	Fayetteville	3:00-3:20	WCAX	1200 100	Burlington
				3:10-3:30	WBYV	1500 100	Rutland
3:00-4:00	KFXM	1210 100	San Bernardino		WTEL	1310 100	Philadelphia
	WOS	630 500	Jefferson City	3:20-3:40	WIBX	1200 100	Utica
3:30-4:30	WBOQ	860 50000	New York	3:30-3:50	WQDM	1370 100	St. Albans
4:30-6:00	10-BP	1200 25	Wingham		WKOK	1210 100	Sunbury
				3:40-4:00	WMBO	1310 100	Auburn
3:00-4:00	CHRC	580 100	Quebec	3:45-4:00	KUJ	1370 100	Walla Walla
3:00-5:00	WHAZ	1300 500	Troy	3:50-4:10	WABY	1370 100	Albany
4:13-5:47	.....	985 .....	Mystery		WBAX	1210 100	Wilkes-Barre
5:00-7:00	WTRC	1310 50	Elkhart	4:00-4:20	WCAD	1220 500	Canton
					KOOS	1200 250	Marshfield
1:00-1:30	WKY	900 1000	Oklahoma City	4:10-4:30	WBBL	1210 100	Richmond
3:00-5:00	XED	1160 500	Oklahoma City		KGBU	900 500	Ketchikan
				4:20-4:40	WRDO	1370 100	Augusta
2:00-3:00	KGEK	1200 100	Yuma		WNBZ	1200 50	Saranac Lake
2:30-4:30	CKBI	1210 100	Prince Albert		WBRE	1310 100	Wilkes-Barre
					KGVO	1200 100	Missoula
2:00-5:00	VOGY	840 400	St. John's				

4:30-4:50	WNBO	1200	100	Washington	2:11-2:19	CFCH	930	100	North Bay			
	KIPQ	1500	100	Wenatchee	2:21-2:29	CRCS	950	100	Chicoutimi			
4:40-5:00	WRAW	1310	100	Reading	2:31-2:39	CKGB	1420	100	Timmins			
	KGy	1210	100	Olympia	2:41-2:49	CKCL	580	100	Toronto			
4:50-5:10	WAAT	940	300	Jersey City	2:51-2:59	CKTB	1200	100	St. Catharines			
	KRKO	1370	50	Everett	3:01-3:09	CHSJ	1120	100	St. John			
5:00-5:20	WBYR	570	250	Syracuse					March 5, 12, 19, 26			
	KFXD	1200	100	Nampa	1:00-2:00	CMBC	1035	150	Havana			
5:10-5:30	KVL	1370	100	Seattle					Wednesday Mornings			
5:20-5:40	KGEZ	1310	100	Kalspell					March 6			
5:30-5:50	KUJ	1370	100	Walla Walla	1:00-2:00	KFYR	550	1000	Bismarck			
5:40-6:00	KGcX	1310	100	Wolf Point	1:30-2:00	WHBL	1410	500	Sheboygan			
5:50-6:10	KFQD	780	250	Anchorage	1:30-2:30	WBUJ	880	500	Iowa City			
6:00-6:20	KSEI	900	250	Pocatello	2:00-2:20	WBRJ	1310	100	Buffalo			
6:10-6:30	KVOS	1200	100	Bellingham	2:10-2:30	WFEN	920	100	Philadelphia			
6:20-6:40	KIT	1310	100	Yakima	2:20-2:40	WSAJ	1310	100	Groves City			
6:30-6:50	KRSC	1120	100	Seattle	2:30-2:50	WHIS	1410	250	Bluefield			
6:40-7:00	KXRO	1310	100	Aberdeen	2:40-3:00	WFBG	1310	100	Altoona			
6:50-7:10	KFIO	1120	100	Spokane	2:50-3:10	WPHR	880	100	Petersburg			
7:00-7:20	KFJI	1210	100	Klamath Falls	3:00-3:20	WDAS	1370	100	Philadelphia			
7:10-7:30	KMED	1310	100	Medford		WKBB	1500	100	East Duquesne			
7:20-7:40	KORE	1420	100	Eugene		NEFI	1440	250	Chihuahua			
				March 25	3:00-4:30	WRBX	1410	250	Roanoke			
2:00-3:00	CMJP	1360	75	Moron	3:10-3:30	WHBC	1200	100	Canon			
3:30-5:00	WLXBS	1530	1000	Waterbury		GHWC	1420	100	Airmosa			
				March 11, 18, 25	3:20-3:40	WMBG	1210	100	Richmond			
1:00-1:30	WHEF	1500	100	Kosciusko		WTRC	1310	50	Elkhart			
				March 4, 11, 18, 25		KICA	1370	100	Clovie			
12:00-3:00	WCNW	1500	100	Brooklyn	3:30-3:50	WBCM	1410	500	Bay City			
4:30-5:00	WNBO	1200	100	Washington		KGHI	1200	100	Little Rock			
				Tuesday Mornings		WSVS	1370	50	Buffalo			
				March 5	3:40-4:00	WGH	1310	100	Newport News			
2:00-3:00	CMJP	1360	75	Moron		WGBF	630	500	Evansville			
2:00-2:20	WPAX	1210	100	Thomasville	3:50-4:10	KIDW	1420	100	Lamar			
2:20-2:40	WHBQ	1370	100	Memphis		WOCL	1210	50	Jamestown			
2:30-2:50	WEED	1420	100	Rocky Mount		WROK	1410	500	Rockford			
2:40-3:00	WOPI	1500	100	Bristol	4:00-4:20	KBTM	1200	100	Jonesboro			
2:50-3:10	WSMB	1320	500	New Orleans		WQAN	880	250	Scranton			
3:00-3:20	WMBR	1370	100	Jacksonville		WBOW	1310	100	Terre Haute			
3:10-3:30	WNRA	1420	100	Muscle Shoals	4:10-4:30	KFBH	1280	1000	Great Falls			
3:20-3:40	WSJS	1310	100	Winston-Salem		WHEC	1430	500	Rocheater			
3:30-3:50	WHEF	1500	100	Kosciusko		WOSU	570	750	Columbus			
3:40-4:00	KMLB	1200	100	Monroe	4:20-4:40	KGFL	1370	100	Roswell			
3:50-4:10	WAGF	1370	100	Dothan		WSAZ	1190	1000	Huntington			
4:00-4:20	KWQJ	1200	100	Stockton		WBEO	1310	100	Marquette			
	WNEJ	1290	500	San Juan	4:30-4:50	WGAL	1500	100	Lancaster			
4:10-4:30	WTJB	1310	100	Jackson		WKBN	570	500	Youngstown			
	KPJM	1500	100	Prescott	4:40-5:00	WCAL	1250	1000	Northfield			
4:20-4:40	WFFB	1370	100	Hattiesburg		WCZA	1070	100	Carthage			
	KERN	1370	100	Bakersfield	4:50-5:10	KFJB	1200	100	Marshalltown			
4:30-4:50	WGPC	1420	100	Albany		WKBF	1400	500	Indianapolis			
	KXO	1500	100	El Centro	5:00-5:20	WACO	1420	100	Waco			
4:40-5:00	WBNO	1200	100	New Orleans		WDZ	1070	100	Tuscola			
	KIEM	1210	100	Eureka		KGDE	1200	100	Fergus Falls			
4:50-5:10	WROL	1310	100	Knoxville	5:10-5:30	WLBL	900	2500	Stevens Point			
	KLS	1440	250	Oakland		WLB	1250	1000	Minneapolis			
5:00-5:20	WDNC	1500	100	Durham	5:20-5:40	WBAA	890	500	W. Lafayette			
	KGIX	1420	100	Las Vegas		WIL	1200	100	St. Louis			
5:10-5:30	WJBW	1200	100	New Orleans	5:30-5:50	WTAD	1440	500	Quincy			
	KGMB	1320	250	Honolulu		KGHF	1320	250	Pueblo			
5:20-5:40	WAML	1310	100	Laurel	5:40-6:00	WXYZ	1240	1000	Detroit			
	KRE	1370	100	Berkeley					March 13			
5:30-5:50	WBIK	1210	100	Springfield	1:00-5:00	CMOX	1325	200	Havana			
	KGU	750	2500	Honolulu					March 20			
5:40-6:00	KGAR	1370	100	Tucson					12:41-12:49			
5:50-6:10	KCRJ	1310	100	Jerome					CKPC	930	100	Brantford
6:00-6:20	KGDM	1100	250	Stockton	12:51-12:59				CHNS	930	1000	Halifax
6:10-6:30	KSUN	1200	100	Lowell	1:01-1:09				CFCY	630	500	Charlottetown
6:20-6:40	KTRB	740	250	Modesto	1:11-1:19				CJLS	1310	100	Yarmouth
6:30-6:50	KUMA	1420	100	Yuma	1:21-1:29				CFPL	730	100	London
				March 12	1:31-1:39				CJKL	1310	100	Kirkland Lake
3:00-4:30	CKBI	1210	100	Prince Albert	1:41-1:49				CHNC	1210	100	New Carlisle
				March 19	1:51-1:59				CFNB	550	500	Fredericton
12:41-12:49	CKPC	930	100	Brantford	2:00-2:30				KWTO	560	1000	Springfield
12:51-12:59	CHNS	930	1000	Halifax	2:01-2:09				CHRC	580	100	Quebec
1:00-4:00	WDAY	940	1000	Fargo	2:11-2:19				CFCH	930	100	North Bay
1:01-1:09	CFCY	630	1000	Charlottetown	2:21-2:29				CRCS	950	100	Chicoutimi
1:11-1:19	CJLS	1310	100	Yarmouth	2:31-2:39				CKGB	1420	100	Timmins
1:21-1:29	CFPL	730	100	London	2:41-2:49				CKCL	580	100	Toronto
1:31-1:39	CJKL	1210	100	Kirkland Lake	2:51-2:59				CKTB	1200	100	St. Catharines
1:41-1:49	CHNC	1210	100	New Carlisle	3:01-3:09				CHSJ	1120	100	St. John
1:51-1:59	CFNB	550	500	Fredericton	8:00-3:30				KSO	1320	250	Des Moines
2:01-2:09	CHRC	580	100	Quebec	8:00-5:00				WOPI	1500	100	Bristol

<b>March 27</b>			4:20-4:40	KWYO 1370 100	Sheridan 100
5:30-5:45	WFBC 1310 100	Altoona	WGAR 1450 500	Cleveland	
<b>March 13, 20, 27</b>			4:30-4:40	KLPM 1240 250	Minot
1:00-1:30	WHEF 1500 100	Kosciusko	WCLO 1200 100	Janesville	
2:00-2:30	WROK 1410 500	Rockford	KGFG 1370 100	Okl. City	
<b>March 6, 13, 20, 27</b>			4:40-5:00	WCLS 1310 100	Joliet
12:00-1:00	CMHW 910 100	Cienfuegos	KABC 1420 100	San Antonio	
6:00-6:30	WASH 1270 500	Grand Rapids	4:50-5:10	WJBL 1200 100	Decatur
<b>Thursday Mornings</b>			5:00-5:20	KFJZ 1370 100	Fort Worth
<b>March 7</b>			5:00-5:20	WJBK 1500 100	Detroit
2:00-2:20	WSOC 1210 100	Charlotte	KWCR 1430 250	Cedar Rapids	
2:10-2:30	WSPA 1420 100	Spartanburg	5:10-5:30	WIBU 1210 100	Poynette
2:30-2:50	WBSN 1310 100	Birmingham	KGFI 1500 100	Corpus Christi	
2:40-3:00	WJBO 1420 100	Baton Rouge	5:20-5:40	WHDF 1370 100	Calumet
2:50-3:10	WGCM 1210 100	Gulfport	WLBF 1420 100	Kansas City	
3:00-3:15	KREG 1500 100	Santa Ana	5:30-5:50	WCRW 1210 100	Chicago
3:00-3:20	WRDW 1500 100	Augusta	5:40-6:00	KGKB 1500 100	Tyler
	WHBY 1200 100	Green Bay	WTAQ 1330 1000	Eau Claire	
	WDAH 1310 100	El Paso	WMBH 1420 100	Joplin	
3:10-3:30	WKAQ 1240 1000	San Juan	<b>March 8</b>		
	WJMS 1420 100	Ironwood	3:00-3:30	KSO 1320 250	Des Moines
	KLUF 1370 100	Galveston	<b>March 15</b>		
3:20-3:40	WCSF 1360 500	Charleston	1:00-1:30	WDNC 1500 100	Durham
	WEDC 1210 100	Chicago	5:00-5:10	KFNF 890 500	Shenandoah
	KTSM 1310 100	El Paso	5:30-7:30	XGOD 1000 1000	China
3:30-3:50	WBIG 1440 500	Greensboro	<b>March 29</b>		
	KGKL 1370 100	San Angelo	2:00-3:00	CMCA 1230 150	Havana
3:40-4:00	WCOA 1340 500	Pensacola	<b>Saturday Mornings</b>		
	WIBC 1210 100	Chicago	<b>March 2</b>		
	KFPM 1310 15	Greenville	2:00-3:30	KVOA 1260 500	Tucson
3:50-4:10	WQBC 1360 500	Vicksburg	2:10-2:30	WBRB 1210 100	Red Bank
	KFIZ 1420 100	Fond du Lac	2:20-2:40	WWRL 1500 100	Woodside
	KMAC 1370 100	San Antonio	2:30-2:50	WGNV 1210 100	Chester
4:00-4:20	WDBO 580 250	Orlando	2:40-3:00	WMBQ 1500 100	Brooklyn
	WEBQ 1210 100	Harrisburg	2:50-3:10	WGBB 1210 100	Freeport
	KFYO 1310 100	Lubbock	3:00-3:20	WOKO 1430 500	Albany
4:10-4:30	WNBR 1430 500	Memphis	WJBC 1200 100	Bloomington	
	WMPC 1200 100	Lapeer	KTRH 1330 1000	Houston	
	KONO 1370 100	San Antonio	3:10-3:30	WGL 1370 100	Fort Wayne
4:20-4:40	WQAM 560 1000	Miami	KFPW 1210 100	Fort Smith	
	WBBF 1210 100	Rock Island	3:20-3:40	WVAE 1200 100	Hammond
4:30-4:50	WDAE 1220 1000	Tampa	WTAW 1120 500	College Station	
	WKBZ 1500 100	Muskegon	3:30-3:50	WLBC 1310 100	Muncie
	KFJM 1370 100	Grand Forks	KASA 1210 100	Elk City	
4:40-5:00	WCBB 1210 100	Springfield	3:40-4:00	WFAM 1200 100	South Bend
4:50-5:10	WCOC 880 500	Meridian	KWLC 1270 100	Decorah	
	WKBV 1500 100	Richmond	3:50-4:10	WCAP 1280 500	Asbury Park
5:00-5:20	WTAX 1210 100	Springfield	4:00-4:20	WJAY 610 500	Cleveland
	KGBX 1310 100	Springfield	KGCA 1270 100	Decorah	
	WIOD 1300 1000	Miami	4:10-4:30	WBNS 1430 500	Columbus
5:10-5:30	WTOC 1260 1000	Savannah	KFVS 1210 100	Cape Girardeau	
	WHBD 1370 100	Mount Orab	WTNJ 1280 500	Trenton	
	KCMC 1420 100	Texarkana	4:20-4:40	WWJ 920 1000	Detroit
5:20-5:40	WHBU 1210 100	Anderson	WLNH 1310 100	Laconia	
5:30-5:50	WIBM 1370 100	Jackson	KGHL 780 1000	Billings	
	KGFF 1420 100	Shawnee	4:30-4:50	KQV 1380 500	Pittsburgh
5:40-6:00	WOMT 1210 100	Manitowoc	KDLR 1210 100	Devils Lake	
	KNOW 1500 100	Austin	4:40-5:00	WLAP 1420 100	Lexington
	<b>March 28</b>		WOC 1370 100	Havenport	
3:15-3:45	KFH 1300 1000	Wichita	4:50-5:10	WSMK 1380 200	Dayton
	<b>March 7, 14, 21, 28</b>		KFXJ 1200 100	Grand Junction	
12:00-3:00	WCNW 1500 100	Brooklyn	5:00-5:20	WAVE 940 1000	Louisville
3:00-4:00	CKWX 1010 100	Vancouver	KFDM 960 500	Beaumont	
			5:10-5:30	WADC 1320 1000	Akron
			5:15-6:15	KWTN 1210 100	Watertown
			5:20-5:40	WSUI 880 500	Iowa City
			5:30-5:50	WSPD 1340 1000	Toledo
			5:50-6:10	WEW 760 1000	St. Louis
				KWEA 1210 100	Shreveport
				KGGM 1230 250	Albuquerque
				<b>March 5</b>	
			1:00-1:30	WKY 900 100	Oklahoma City
			1:00-2:00	CMW 930 1400	Havana
			<b>March 16</b>		
			3:30-5:00	WLNBS 1530 1000	Waterbury
			5:30-7:30	XGOD 1000 1000	China
			<b>March 30</b>		
			12:00-8:00	KGIR 1380 1000	Butte
			3:30-4:00	WLAP 1420 100	Lexington
			<b>March 2, 9, 16, 23, 30</b>		
			1:00-3:00	CMCW 755 150	Havana
				WNEI 1290 500	San Juan
			5:30-6:30	ZUE 1025 1000	Australia

# 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. (1234567)  
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. (234567)  
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. (234567)

**WLW, Cincinnati, on 700**

9:55-10:00 a.m. (7)  
10:00 a.m. (4)  
10:40 a.m. (234567)  
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. (234567)  
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. (234567)  
6:30 p.m. (7)  
6:45 p.m. (234567)  
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. (234567)  
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**  
 OKLW WAAB WABC WBNS WCAO  
 WCAU WFBL WIBC WKW WJAS  
 WJSV WKWB 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  
 WKWB WOKO WORC

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**R — Billy Batchelor**  
 WBEN WCAE WCSH WEOF WEEL  
 WFBR WFI WGY WJAR WRC  
 WTAG WTAM WTIC WWJ

**B — Lowell Thomas**  
 CFCF CRCT KDKA WBAL WBZ  
 WBZA WFLA WGAR WHAM WIOD  
 WJAX 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 WBZA  
 WCKY 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 Robinson; Mildred Bailey**  
 KDKA KOIL KSO KWCR KWK  
 WBAL WBZ WBZA WCKY WENR  
 WHAM WJR WJZ WMAL WSYR

**R — Stories of Black Chamber**  
 KYW WBEN WCAE WCSH WEOF  
 WEEL 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 KMXX KRLL KTRH KTSB  
 WBBM WBT WCCO WDSU WFBM  
 WGST WHAS WMBG

**B — Red 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 WVB WSM  
 WSMB WSYR WTAR WUNC  
**R — Easy Aces**  
 KSO KYW WCSH WEOF 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**  
 OKLW KMBC KMXX WABC WBBM  
 WBT WCAO WCAU WCCO WGR  
 WHAS WHK WJAS WJSV WJAZ

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

**R — Uncle Ezra**  
 KYW WBEN WCAE WCSH WDAF  
 WEOF WEEL 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  
 WBEN WCAE WCSH WDAF WEOF  
 WFEI 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**  
 OKLW KDB KERN KFPY KPRC  
 KGB KHJ KLZ KMBC KMJ KNOX  
 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**  
 OKLW KMBC KMXX WABC WADC  
 WBBM WCAO WCAU WCCO WDRC  
 WEAN WFBL WFBM WGR WHAS  
 WHK WJAS WJSV WKRC WNAC  
 WOKO WSPD

**C — Billy Batchelor**  
 KDB KERN KFBK KFPY KPRC  
 KGB KHJ KMJ KOIN KOL KYI  
 KWG

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — Kate Smith's Star Revue**  
 OKLW KFAB KFH KGKO KLRA  
 KMBC KMXX KOMA KRLL KTRH  
 KTSB KTUL WABC WADC WALA  
 WBBM WBNS WBRC WBT WCAO  
 WCAU WCCO WCOA WDAE WDBJ  
 WDRC WDSU WEAN WFBL WFBM  
 WFEA WGR WGST WHAS WHEC  
 WHK WIBW WIBC WICC WISN  
 WJAS WJSV WKRC WLAC WLBY  
 WMAS WMBG WMBR WMT WNAC  
 WNOX WNBZ WOKO WORC WOWO  
 WQAM WREC WSBT WSEA WSPD

**B — Voice of Firestone**  
 CFCF CRCT KFYR KPRC KSD  
 KSTP KTBS KVOO KYW WAVE  
 WBEN WCAE WBZ WDAF WDAY  
 WEOF WEBC WEEL WFBR WFLA  
 WGY WHO WIBA WIOD WIS WJAZ  
 WJAX WJDX WKBF WKY WMAQ  
 WMC WOAI WOW WPTF WRC  
 WRVA WSB WSM WSMB WSOC  
 WTAG WTAM WTAR WVIC WTMJ  
 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**  
 OKLW KDB KERN KFBK KHJ  
 KFPY KPRC KGB KGMB KHF  
 KLRA KLZ KMBC KMJ KNOX  
 KOH KOIL KOL KOMA KRLL  
 KSCJ KSL KTRH KTSB KTUL  
 KVI KWG WABC WACO WADC  
 WALA WBBM WBIG WBNS WBRC  
 WBT WCAO WCAU WCCO WDAE  
 WDBJ WDBO WDNC WDDO WDRC  
 WDSU WDEAN WFLB WFBM WFEA  
 WGST WHAS WHEC WHK WHP  
 WIBW WICC WISN WJAS WJSV  
 WKBB WKWB WKRC WLAC WLWB  
 WLBY WMAS WMBD WMBG  
 WMBR WMT WNC WNXN WOKO  
 WORC WOWO WPG WQAM WREC  
 WSEA WVS WSPD WTOG

**R — A & P Gypsies**  
 KSD WBEN WCAE WCSH WDAF  
 WEOF WEEL WGY WHO WJAR  
 WLIT WMAQ WOC WOW WTAG  
 WTAM WVIC WWJ

**B — Sinclair Greater Minstrels**  
 KDKA KFI KFSD KFYR KOA KOIL

**MONDAY (Continued)**

EPO KPIC KSO KSTP KTRK KTBS  
KTHS KVOO KWK WBAL WBZ  
WBZA WDAY WDBF WFAA WFLA  
WGAR WHAM WIBA WIOD WIS  
WJAX WJDX WJR WJZ WKY WLS  
WLW WMC WOAI WPTF WRC  
WRVA WSB WSM WSMB WSOO  
WTAR WTMJ WWNC

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

CRAC CKLW KFAB KLZ KMBC  
KMOX KSL WABC WADC WBBM  
WBNS WBT WCAO WCAU WCCO  
WDRS WDSU WEAN WFHL WFBM  
WHAS WHK WICC WJAS WJSY  
WKBW WKHC WNAC WOKO  
WOWO WREC WSPD

**R — Otto Harbach Musical Show**  
KDYL KFI KFYP KGO KGW KHQ  
KOA KOMO KPBC KSD KSTP  
KTBS KVOO WBBN WCAE WCHS  
WDAF WDAY WEAF WEBC WEEL  
WFAA WFRB WFLA WGY WHO  
WIBA WIOD WIS WJAR WJAX  
WJDX WKY WLIT WLW WMAQ  
WMC WOAI WOC WOW WPTF WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WWJ WWNC

**B — Princess Pat Players**  
KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WENR  
WGAR WHAM WJR WJZ WMAL  
WREN WSYR

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

CKLW KDB KERN KFAB KFBC  
KFYP KFRC KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KRLD  
KSL KVI KWG WAAB WABC WADC  
WBBM WBNS WCAO WCAU WCCO  
WDRS WDSU WEAN WFHL WFBM  
WHAS WHK WJBW WJAS WJSY  
WKBW WERC WOKO WSPD

**R — Contented Program**  
CFBC CRCT KDYL KFI KFYP  
KGO KGW KHQ KOA KOMO KPBC  
KSD KSTP WBBN WCAE WCHS  
WDAF WEAF WEBC WEEL WFAA  
WFRB WGY WHO WJAR WKY  
WLIT WLW WMAQ WMC WOAI  
WOC WOW WRC WSB WSM WTAG  
WTAM WTIC WTMJ WWJ

**B — Jackie Heller, Tenor**  
KDKA KOIL KSO KWCR WBAL  
WBZ WBZA WCKY WENR WGAR  
WHAM WJR WJZ WMAL WREN  
WSYR

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**C — Talks on Health Problems**

CFRB CKLW KFHL KLRA KLZ  
KMBC KOH KRLD KTRH KTHA  
KVOR KWKH WAAB WABC WACO  
WADC WALA WBIG WBNS WBRB  
WBT WCAU WCCO WDAE WDBJ  
WDBO WDNC WDDO WDSU WEAN  
WFBL WFBM WFEA WGLC WGR  
WHBC WHK WHY WIBW WIO  
WISN WJAS WJSY WKHC WLAC  
WLWB WLWZ WMAS WMBD  
WMBG WMBR WMIT WNAW WNOX  
WOKO WORC WPG WQAM WREC  
WSBT WSEA WSJS WSPD WTOG

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

CFRB CKLW KFHL KGKO  
KLRA KLZ KMBC KOH KRLD  
KTRH KTHA KVOR KWKH WAAR  
WABC WACO WADC WALA WBIG

WBNS WBRB WBT WCAO WCAU  
WDAE WDBJ WDBO WDNC WDDO  
WDSU WEAN WFHL WFBM WFEA  
WGLC WGR WHEC WHK WHY  
WICC WISN WJAS WJSY WKRK  
WLAC WLWB WLWZ WMAS WMBD  
WMBG WMBR WMIT WNAW WNOX  
WOKO WORC WPG WQAM WREC  
WSBT WSEA WSJS WSPD WTOG

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

KDB KERN KFAB KFBC KFYP  
KFRC KGB KHJ KLRA KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLD KSL KTRH KVI KWG WALA  
WBBM WBRB WCCO WDSU WFBM  
WGST WHAS WLAC WREC WSEA

**B — Amos 'n' Andy**  
KOIL KPBC KSTP KTHS 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**  
**C — Glen Gray and Orchestra**

KLRA WAAC WALA WBZ WBT  
WCAO WDAE WDBJ WDBO WDNC  
WDDO WDRS WDSU WEAN WFEA  
WJSY WLAC WLWZ WMAS WMBG  
WMBR WNAC WNOX WORC WPG  
WQAM WREC WSEA WSMB WTOG

**C — Edwin C. Hill**  
KDB KERN KFBC KFYP KFRC  
KGB KHJ KLZ KMJ KOIN KOL  
KSL KVI KWG

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**R — Voice of Firestone**

KDYL KFI KFSD KCHL KGIR  
KGO KGW KHQ KOA KOMO KPO  
KSTAR

**C — Kate Smith's Star Revue**  
KDB KERN KFBC KFYP 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**  
**C — Buck Rogers, See Monday**

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**C — Musical Appreciation Program**

CKLW KLRA WABC WALA WBIG  
WBRB WBT WCAO WDAE WDBJ  
WDBO WDNC WDDO WDRS WDSU  
WEAN WFEA WGLC WHEC WHK  
WHY WJAS WJSY WKBW WKRK  
WLAC WLWB WLWZ WMAS WMBG  
WMBR WNOX WOKO WORC WQAM  
WREC WSEA WSJS WSPD WTOG  
WVVA

**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**  
**R — Whispering Jack Smith**

KSD KYW WBBN WCAE WEAF  
WFRB WJAR WMAQ WRC WSAI  
WTAG WTAM WTIC

**B — Morton Downey**  
KDKA KOIL KSO KWCR WBZ  
WBZA WCKY WENR WFI WGAR  
WHAM WJR WJZ WKBW WMAL  
WREN

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**B — Household Musical Memories**

KDKA KOIL KSO KWCR KWK

WBAL WBZ WBZA WENR WGAR  
WHAM WJZ WMAL WREN WSYR  
**C — Buck Rogers, 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**

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

CKLW KMBC KMOX WABC WADC  
WBBM WCAO WCAU WDRB WEAN  
WFBL WFBM WGR WHAS WHK  
WJAS WJSY WKRK WNAC WOKO

**R — Leo Reisman and Orchestra**  
KFYR KPBC KSD KSTP KTHS  
KVOO WAVE WBAP WBBN WCAE  
WCHS WDAF WDAY WEAF WEBC  
WEEL WFRB WFI WFLA WGY  
WIBA WIOD WIS WJAR WJAX  
WJDX WKBW WKY WMAQ WMC  
WOC WOW WPTF WRC WSB WSM  
WSB WSOO WTAG WTAM WTAR  
WTIC WTMJ WWJ WWNC

**B — Eno Crime 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**  
**C — Billy Batchelor, See Monday**

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C — Abe Lyman; Vivienne Segal**

CFRB CKLW KMBC KMOX WABC  
WADC WBBM WCAO WCAU WCCO  
WDRB WEAN WFHL WFBM WGR  
WHAS WHK WJAS WJSY WKRK  
WNAC WOKO WOWO WSPD

**R — Wayne King and Orchestra**  
KPBC KSD KSTP WBBN WCAE  
WCHS WDAF WEAF WEEL WFAA  
WFI WGY WHO WJAR WKBW WKY  
WMAQ WMC WOAI WOC WOW  
WRC WSAI WSB WSM WSMB  
WTAG WTAM WTIC WTMJ WWJ

**B — Lawrence Tibbett**  
CFBC 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**  
**C — Bing Crosby; Mills Bros.**

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

**R — Ben Bernie and Orchestra**

KFYR KOA KPBC KSD KSTP  
KTBS WBAP WBBN WCAE WCHS  
WDAY WEAF WEEL WFRB WFI  
WGY WJAR WJDX WKY WMAQ  
WMC WOAI WOW WRC WSB WTAG  
WTAM WTIC WTMJ WWJ

**B — Grace Moore, Soprano**

EDKA KDYL KFI KGW KHQ KOA  
KOIL KPO KSO KWCR KWK WBAL  
WBZ WBZA WCKY WFI WHAM  
WJR WJZ WKBW WLS WMAL  
WREN WSYR

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Isham Jones and Orchestra**

CKLW KDB KERN KFAB KFBC  
KFHL KFYP KFRC KGB KGKO  
KHJ KLRA KLZ KMBC KMJ KMOX  
KOH KOIN KOL KOMA KRLD



## TUESDAY (Continued)

KSCJ KSL KTRH K TSA KTUL KYI  
KRGW KWKH WABC WACO WADC  
WALA WBBM WBNS WDBC WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDDO WDRD WDSU WEAN  
WFBL WFHM WFEA WGST WHAS  
WHFC WHK WHF WHR WBX  
WICC WIND WISN WJAS WJSV  
WKBN WKWB WKRC WLAC  
WLWB WMAS WMBD WMBG  
WMBR WMT WNAC WNAX WNOX  
WOKO WORC WPG WQAM WSBT  
WREX WSFA WSJS WSMK WSPD

### R — Ed Wynn; Eddie Duchin

KDYL KFI KFSB KFYR KGH  
KGR KGO KGW KHQ KOA KOMO  
KPRC KSD KSTP KTAR KTHS  
KTHS KVoo WAVE WHAP WHEN  
WCAE WCSH WDAF WDAY WFAE  
WFEA WFEI WFBW WFL WFLA  
WGY WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKBF WKY WMAQ  
WMC WOAI WOC WOP WPTF  
WRC WRVA WSB WSM WSMB  
WSOC WTAG WTAM WTMJ WTVJ  
WVNC

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

C — Glen Gray; Walter O'Keefe  
CKLW KFAB KFH KFLA KMBC  
KMOX KOMA KRLL KSCJ KTRH  
K TSA KTUL KWKH WABC WACO  
WADC WALA WBBM WBG WBNS  
WBRC WBT WCAO WCAU WCCO  
WDAE WDBJ WDO WDN WDDO  
WDRD WDSU WEAN WFBL WFBM  
WFEA WGST WHFC WHK WHF  
WHR WBX WICC WISN WJAS WJSV  
WKBN WKWB WKRC WLAC  
WLWB WLBZ WMAS WMBD  
WMBG WMBR WMT WNAC WNAX  
WOKO WORC WOP WPG WQAM  
WREX WSFA WSJS WSPD WTC

### R — Palmolive Beauty Bx

CFBC CRCT KDYL KFI KFSB  
KFYR KGH KGR KGO KGW  
KHQ KOA KOMO KPRC KSD KSTP  
KTAR KTHS KVoo WAVE WHAP  
WHEN WCAE WCSH WDAF WDAY  
WFAE WFEA WFEI WFBW WFLA  
WGY WHO WIOD WIS WJAR WJAX  
WJDX WKBF WKY WLW WMAQ  
WMC WOAI WOC WOP WPTF  
WRC WRVA WSB WSM WSMB  
WSOC WTAG WTAM WTMJ WTVJ  
WVNC

### 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 KRLL KSCJ KTRH K TSA  
KVR KWKH WAAB WABC WACO  
WADC WALA WBG WBNS WBRC  
WBT WCAO WCAU WDAE WDBJ  
WDBO WDN WDDO WDRD WDSU  
WEAN WFBL WFBM WFEA WGLC  
WGR WHFC WHK WHF WHR WBX  
WICC WJAS WJSV WKRC WLAC  
WLWB WLBZ WMAS WMBD  
WMBG WMBR WMT WNAX WNOX  
WOKO WORC WPG WQAM WSBT  
WVNC WSJS WSPD WTC

### 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 Haymes and Orchestra  
CKAC CKLW KDB KFH KGKO  
KLRA KLZ KOH KOMA KRLL  
KTRH K TSA KVR KWKH WABC

WACO WADC WALA WBNS WBRC  
WBT WCAO WDAE WDBJ WDBO  
WDN WDRD WDSU WEAN WFBL  
WFEA WGLC WHFC WHK WHF  
WHR WBX WJSV WKWB WKRC  
WLAC WLWB WLBZ WMAS WMBG  
WMBR WMT WNAC WNAX WNOX  
WOKO WORC WPG WQAM WSBT  
WSFA WSJS WSPD WTC WVVNC

### 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  
KRLL KSCJ KTRH K TSA KVR  
KWKH WABC WADC WBBM WBNS  
WBRC WBT WCAO WCAU WDAE  
WDBJ WDBO WDN WDDO WDRD  
WDSU WEAN WFBL WFEA WHFC  
WHK WHF WHR WBX WICC WISN  
WJAS WJSV WKWB WKRC WLAC  
WLWB WLBZ WMAS WMBD  
WMBG WMBR WMT WNAC WNAX  
WNOX WORC WPG WQAM WSBT  
WSFA WSJS WSPD WTC WVVNC

### R — Leo Reisman and Orchestra

KDYL KFI KFSB 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

### 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 — 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 — Mary Pickford and Company  
CFBC CRCT KDYL KFI KFYR  
KGO KGW KHQ KOA KOMO KPRC  
KSD KSTP KTAR KTHS KVoo  
WAVE WHAP WHEN WCAE WCKY  
WCSH WDAF WDAY WFAE WFCB  
WFEI WFBW WFLA WGY WHO  
WIBA WIOD WIS WJAR WJAX  
WJDX WKY WLIT WMAQ WMC  
WOAI WOC WOP WPTF WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WTVJ WVVNC

### B — Penthouse Party; Mark Hellinger

KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WGR WHAM  
WJRWJZ WLS WLW WMAJ WREN  
WVSR

### 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 KFBK KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KOLA KRLL  
KSL KVI KWG WABC WADC  
WBBM WBT WCAO WCAU WDRD  
WDSU WEAN WFBL WFBM WGR  
WHAS WBX WJAS WJSV WKRC  
WLAC WNAC WOKO WOVO WSPD

### B — Lanny Riss and Orchestra

KDKA KOIL KSO KWCR WBAL  
WGR WHAM WJR WJZ WLS  
WMAJ WREN WYSR

### 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 KTHS KVoo  
WBEN WCAE WCSH WDAF WFAE  
WFEA WFEI WFBW WFLA WIOD  
WLW WJAR WJAX WKY WLIT  
WLW WMAQ WMC WOAI WOP  
WPTF WRC WRVA WSB WSM  
WSMB WTAG WTAM WTMJ WTVJ  
WVVNC

### B — Warden Lawes; Drama

KDKA KDYL KFI KGO KGW KHQ  
KOA KOIL KOMO KSO KWCR  
KWK WBAL WBZ WBZA WCKY  
WGR WHAM WJR WJZ WKBF  
WLS WLW WMAJ WREN WYSR  
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 KFBK KFPY  
KFRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KOMA KRLL  
KSL KTRH K TSA KVI KWG WABC  
WADC WBBM WHIG WBT WCAO  
WCAU WCCO WDRD WDSU WEAN  
WFBL WFBM WHK WJAS WJSV  
WKWB WKRC WNAC WOKO WORC  
WOVO WSPD

### B — John Charles Thomas

KDKA KDYL KFI KGO KGW  
KHQ KOA KOIL KOMO KSO KWCR  
KWK WBAL WBZ WBZA WCKY  
WENR WGR WHAM WJR WJZ  
WKBF WLW WMAJ WREN WYSR

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

C — Jack Pearl; Freddie Rich

CKLW KDB KERN KFAK KFBK  
KFH KFPY KFRC KGB KGKO  
KLZ KMBC KMJ KMOX KOIN  
KOL KOMA KLRA KRLL KSCJ  
KSL KTRH K TSA KTUL KYI  
KWG KWKH WABC WALA WBBM  
WBNS WBRC WBT WCAO WCAU  
WCCO WDAE WDBJ WDBO WDBO  
WDRD WDSU WEAN WFBL WFBM  
WGST WHAS WHFC WHK WHF  
WHR WBX WICC WJAS WJSV  
WKWB WKRC WLAC WNAC  
WMBD WMBG WMBR WMT WNAC  
WNAX WNBW WNOX WOC WOKO  
WOVO WQAM WREX WSBT WSMK  
WSPD WTC

### R — Guy Lombardo and Orchestra

KPRC KSD KTHS KTHS KVoo  
WAVE WHEN WCAE WCSH WDAF  
WFAE WFEI WFAA WFBW WFLA  
WGY WHO WIOD WIS WJAR WJAX  
WJDX WKBF WKY WLIT WLW  
WMAQ WMC WOAI WOC WOP  
WPTF WRC WRVA WSB WSM  
WSMB WTAG WTAM WTMJ WTVJ  
WVVNC

### B — Jimmy Fidler, Hollywood Gossip

KDKA KDYL KFI KGO KGW KHQ KOA  
KOIL KOMO KPO KSO KWCR

## WEDNESDAY (Continued)

WBAL WBZ WBZA WCKY WENR  
WGAR 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 KOI KOMO KSO KSTP KWCR  
KWK WBAL WBZ WBZA WBCB  
WENR WGAR 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 CRAC CKLW KDB KFH  
KGKO KHJ KLRA KLZ KMBC  
KOH KOMA KRLD KSCJ KTRH  
KTSR KVOR KWKH WAAB WABC  
WACO WADC WALA WBBM WBIG  
WBRC WBT WCAO WCAU WDAE  
WDBJ WDBO WDNC WDOO WDRC  
WDSU WEAN WFBL WFBM WFEA  
WGLC WGR WHFC WHP WIBW  
WICC WISN WJAS WJSV WKRC  
WLAC WLWB WMAS WMBD  
WMBR WMT WNOX WOKO WORC  
WQAM WBSH WSFA WSJS WSPD  
WTOC

**R — Ray Noble and Orchestra**

KDYL KFI KGW KHQ KOA KOMO  
KPO KSD KYW WAPI WAVE WBN  
WCAE WCHS WVEF WEEI WFBR  
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 WDBO  
WDNC WDOO WDRC WDSU WEAN  
WFEA WJSV WLAC WLWB WMBR  
WNAC WNOX WORC WPG WQAM  
WSFA 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 WDBO WDNC  
WDOO WDRC WDSU WEAN WFEA  
WICC WISN WJSV WLAC WLWB  
WMAS WMBR WNAC WNOX WORC  
WPG WQAM WSFA WSJS WTOC

**C — Voice of Experience**

KDB KERN KFBK KFPY KFRG  
KGB KHJ KLZ KMJ 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 WBN WCSI WDAF  
WEAF WGY WHO WJR WMAQ  
WRC WSAI 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 WGAR WJZ WLS WMAL  
WREN WSYR

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

**R — Rudy Vallee and Orchestra**

CFCE CRCT KDYL KFI KFYR  
KGO KGW KHQ KOA KOMO KPRC  
KSD KSTP KTAR KVOO WAPI  
WBAP WBN WCAE WCSI WDAY  
WEAF WECB WEEI WFBR WFI  
WFLA WGY WHO WIOD WIS  
WJAR WJAX WJDX WKY WLW  
WMAQ WMC WOI WOC WOW  
WPTF WRC WRVA WSB WSM  
WSMB WTAG WTAM WTIC WWJ  
WWNC

**C — Phil Spitalny's Girl Orchestra**

CKLW KDB KERN KFAB KFBK  
KFPY KFRG 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 WHC WANC  
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 KRLD KSCJ KTRH  
KTSR KTUL KWKH WABC WACO  
WADC WALA WBBM WBIG WBSN  
WBRC WBT WCAO WCAU WCOO  
WDAE WDBJ WDBO WDOO WDRC  
WDSU WEAN WFBL WFBM WFEA  
WGST WHAS WHFC WHK WHP  
WIBW WICC WISN WJAS WJSV  
WKBW WKHW 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 KGR  
KGO KGW KHQ KOA KOMO KPRC  
KSD KSTP KTAR KTBS WAPI  
WAVE WBAP WBN WCAE WCSI  
WDAF WEAF WEEI WFBR WFI  
WFLA WGY WHO WIOD WIS WJAR  
WJAX WJDX WKBF WKY WLW

WMAQ WMC WOI WOC WOW

WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WTIC WTMJ  
WWJ WWNC

**B — Death Valley Days; Drama**

KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WGAR 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 CRGM KDB KERN  
KFAB KFBK KFH KFPY KFRG  
KGB KGKO KHJ KLRA KLZ KMBC  
KMJ KMOX KOI KOIN KOMA  
KRLD KSCJ KSL KTRH KTSR  
KTUL KVI KVOR KWG WABC  
WACO WADC WALA WBBM WBIG  
WBSN WBRC WBT WCAO WCAU  
WCOO WDAE WDBJ WDBO WDNC  
WDOO WDRG WDSU WEAN WFBL  
WFBM WFEA WGLC WGST WHAS  
WHFC WHK WHP WIBW WICC  
WISN WJAS WJSV WKBW 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**

CFCE CRCT KDYL KFI KFYR  
KGO KGW KHQ KOA KOMO KPRC  
KSD KSTP KTAR KTBS KTHS  
KVOO WAPI WAVE WBAP WBN  
WCAE WCSI WDAF WDAY WEAF  
WECB WEEI WFBR WFI WFLA  
WGY WHO WIBA WIOD WIS WJAR  
WJAX WJDX WKY WLW WMAQ  
WMC WOI 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  
KRLD KSCJ KTRH KWKH WAAB  
WABC WADC WALA WBBM WBIG  
WBT WCAO WCCO WCOO WDBO  
WDBC WGAN WFBM WFEA WGST  
WHFC WHK WICC WJAS WKBW  
WKRC WLWB WMAS WMT WOC  
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 CRAC CKLW KDB KFH  
KGKO KLRA KLZ KOI KOMA  
KRLD KSCJ KTRH KTSR KVOR  
KWKH WABC WACO WADC WALA  
WBBM WBSN WBRC WBT WCAO  
WCOO WDAE WDBJ WDOO WDNC  
WDOO WDRC WDSU WEAN WFBL  
WFBM WFEA WGLC WHFC WHK  
WHP WIBW WISN WJAS WJSV  
WKHW WKRC WLAC WLWB WLWB  
WMAS WMBD WMT WNAC WNAX  
WNOX WOKO WORC WPG WQAM  
WBSH WSFA WSJS WSPD WTOC  
WVVA

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

**C — Glen Gray; Walter O'Keefe**

KDB KERN KFBK KFPY KFRG  
KGB KHJ KLZ KMJ KOI KOIN  
KOL KSL KVI KVR 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 KRLL KSCJ KSL  
 KTRH KVR KWKH WAAB WABC  
 WADC WBBM WCAO WCAU WDNC  
 WDRC WFBL WHEC WHK WISN  
 WJAS WJSV WKBW WLAC WLBW  
 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 KRLL KSCJ KSL KTRH  
 KVR KWKH WAAB WABC WBBM  
 WCAO WCAU WDNC WDRC WFBL  
 WGLC WHEC WHK WISN WJAS  
 WJSV WKBW WLAC WLBW 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 — 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 — Cities Service Concert**  
 CRCT KDYL KOA KPRC KSD  
 KSTP KTHS KTHS KVOO KYW  
 WPAB WBEN WCAE WCSH WDAF  
 WFAF WHEC WEEI WFAA WFBR  
 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 WMW WREN WSB  
 WSM WSYR

**C — Mrs. Franklin D. Roosevelt**

CFRB CKLW KDB KERN KFAB  
 KFBK KFH KFPY KFCR KGB  
 KHJ KLRA KLZ KMBC KMJ KMOX  
 KOIN KOL KOMA KRLL KSCJ  
 KSL KTRH KTSa KVI KWG WABC  
 WADC WBBM WBNS WBRC WBT  
 WCAO WCAU WCCO WDAE WDBJ  
 WDRC WDSU WEAN WFBL WFBM  
 WGR WGST WHAS WHEC WHK  
 WJAS WJSV WKRC WLAC WLBZ  
 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 WDRC WEAN

WFBL WGR WHK WJAS WJSV  
 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  
 KFCR KGB KHJ KLZ KMJ KMOX  
 KOIN KOL KRLL KSL KVI KWG  
 WABC WADC WBBM WCAO WCAU  
 WCCO WDRC WDSU WEAN WFBL  
 WFBM WGST WHAS WHK WJAS  
 WJSV WKBW WKRC WNAC WOKO  
 WOW WSPD

**R — Frank Munns; Abe Lyman**

KSD WBEN WCAE WCSH WDAF  
 WFAF WEEI 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  
 WGAR WHAM WIOD WIS WJAX  
 WJDX WJZ WKY WLIT WLSWML  
 WMC WPTF WREN WSB WSMB  
 WSYR WTAR WWNC

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

**C — Hollywood Hotel**

CFRB CKAC CKLW KDB KERN  
 KFAB KFBK KFH KFPY KFCR  
 KGB KGKO KHJ KLRA KLZ KMBC  
 KMJ KMOX KOH KOIN KOL KOMA  
 KRLL KSCJ KSL KTRH KTSa  
 KTUL KVI KVOR KWG KWKH  
 WABC WCAO WADC WALA WBBM  
 WBIG WBNS WBRC WBT WCAO  
 WCAU WCCO WDAE WDBJ WDBO  
 WDNC WDDO WDRC WDSU WEAN  
 WFBL WFBM WFAE WGST WHAS  
 WHEC WHK WHP WIBW WIBX  
 WICC WISN WJAS WJSV WKBH  
 WKBW WKRC WLAC WLBW WLBZ  
 WMAS WMBD WMBG WMBR WMT  
 WNAC WNAX WNOX WOKO WORC  
 WOWO WPG WQAM WREC WSBT  
 WSFA WSJS WSPD WTOC

**R — Pick and Pat**

KSD WBEN WCAE WCSH WDAF  
 WFAF 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 KTAAR KWK WAPI WAVE  
 WBAL WBZ WBZA WBC WENR  
 WFAA WFLA WGAR WHAM WIOD  
 WJAX WJR WJZ WKY WMC WOAI  
 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 WBN  
 WCAE WCSH WDAF WFAF WERC  
 WEEI WFAA WFBR 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 WDDO

WDRC WDSU WFBL WGR WHEC  
 WHP WICC WJAS WJSV WLAC  
 WLBW WMAS WMBG WOKO WORC  
 WPG WREC WSJS

**R — Coca Cola; Frank Kraft**

CFRC CRCT KDYL KFI KFSB  
 KFYR KGHL KGIR KGU KGW  
 KHQ KOA KOMO KPO KSTP KTAAR  
 KTHS KTHS KYW WAVE WCAE  
 WCSH WDUJ WEAF WERC WEEI  
 WFBR WFLA WGY WIBA WIS  
 WJAR WJAX WJDX WKBW WLW  
 WMC WOW WPTF WRC WSB  
 WSMB WSOQ WTAG WTAM WTAR  
 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 WBRC WBT  
 WCAO WDAE WDBO WDNC WDDO  
 WDRC WDSU WEAN WFEA WHK  
 WJSV WLAC WLBZ 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 — Lilac Time; Arthur Murray**  
 CKLW KDB KERN KFBK KFPY  
 KFCR KGB KHJ KLZ KMJ KMOX  
 KOIN KOL KLZ KSL KTRH  
 KTSa KVI KWG WAAB WABC  
 WBBM WBNS WCAO WCCO WFBL  
 WFBM WGR WHAS WHEC WHK  
 WJSV 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 WDRC WEAN WFBL  
 WFEA WHEC WHP WICC WJAS  
 WJSV WKBW WLBZ 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  
 WFAF WEEI 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 — Soconyland Sketches**  
 WABC WDRC WEAN WGR WICC  
 WLBZ 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 KFCR KGB KHJ  
 KLRA KLZ KMBC KMJ KMOX  
 KOIN KOL KOMA KRLL KSL  
 KTRH KTSa KVI KWG WABC  
 WBBM WBRC WCAO WCAU WCCO  
 WDDO WDRC WDSU WEAN WFBL  
 WFBM WGR WGST WHAS WHK  
 WIBW WJAS WJSV 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  
WBAB WBEN WCAE WDSH WDAF  
WEAF WEBC WEEI WFBR WFI  
WGY WIBA WJAR 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 Armstrong and Orchestra**  
CKLW KDB KERN KFBK KFFY  
KPRC KGB KHJ KLZ KMBC KMJ  
KMOX KOIN KOL KRLL KSL KVI  
KMG KWKH WABC WADC WBBM  
WBT WCAO WCAU WCCO WDRC  
WEAN WFBL WFBM WGR WHAS  
WIK WJAS WJSV WKRC WNAO  
WOKO WQOW WSPD

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**R — Songs You Love**  
KFYR KSD KSTP WBEN WCAE  
WDSH WDAF WDAY WEAF WEBC  
WEEI WFBR WFI WGY WIBA  
WJAR WLW WMAQ WOW 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 KFI KMBC KMOX WAAB  
WABC WADC WBBM WBNS WBT  
WCAO WCAU WCCO WDRC WDSU  
WEAN WFBL WFBM WGST WHK  
WJAS WJSV WKBW WKRC WOKO  
WSBT WSPD

**R — Gibson Family Musical**  
KDYL KFI KFYR KGO KGW KHQ  
KOA KOMO KSD KSTP WBEN  
WCAE WDSH WDAF WDAY WEAF  
WEBC WEEI WFBR WFI WGY  
WIBA WJAR 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  
KFFY KPRC 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  
WIK WJAS WJSV 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 KOIA  
KRLL KSCJ KTHH KTSa KVOR  
KWKH WAAB WABC WACO WADC  
WALA WBG WBT WCAO WCAU  
WCCO WDAE WDBJ WDBO WDNC  
WDOD WDRG WDSU WEAN WFBL  
WFBM WFEA WGLC WGR WHFC  
WHP WIBW WJZ WLS WJAS  
WJAS WKRC WLAC WLWB WLZ  
WMSB WMBD WMT WNAO WNOX

WOKO WORC WPG WQAM WSBT  
WSFA WSJS WSPD WTOG WWVA

**R — Let's Dance**  
KFYR KPRC KSD KTBS KTHH  
KVOO KYW WAVE WHAF WBEN  
WCAE WDSH WDAY WEAF WEBC  
WEEI WFAA WFBR WFLA WGY  
WIBA WJOD WIS WJAR WJAZ  
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 KFFY KPRC  
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**  
CKAK CKLW KLRA WAAB WABC  
WBT WDAE WDBJ WDBO WDOD  
WDRG WDSU WFBM WGLC WGR  
WHFC WHP WIBW WJAS WJSV  
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 WBSA  
WCAU WDBO WDNC WDOD WEAN  
WFBL WFBM WGLC WHP WIBW  
WICC WISV WKDW WKRC WLAC  
WLWB WNAO 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 WBNS WCCO WDAE  
WDBO WDOD WDRG WDSU WEAN  
WFBL WFBM WFEA WGLC WHK  
WHP WIBW WICC WJNS WJAS  
WJSV WLAC WLWB WLZ WNAS  
WMBD WMBR WMT WNAO WNAO  
WNOX WOKO WORC WQAM WREO  
WSFA WSPD

**R — Major Bowes' Family**  
KDYL KFYR KOA KPRC KSTP  
KTBS KVOO WAPI WCAE WDAF  
WDAY WEAF WEBC WFAA WFBR  
WFLA WGY WHO WJOD WJAR  
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 WDRG WEAN  
WFBL WFBM WGR WHAS WJAS  
WJSV WKH WKRC WNAS WNAO  
WOKO WORC WQOW WSPD

**B — Radio City Symphony**  
CFCE CRCT KDRA KDYL KFI  
KFYR KGO KGW KHQ KOA KOIL  
KOMO KPRC KSD KSTP KTHH  
WABC WADC WBBM WBT WCAO WCAU  
WCCO WDAE WDBJ WDBO WDNC  
WDOD WDRG WDSU WEAN WFBL  
WFBM WFEA WGLC WGR WHFC  
WHP WIBW WJZ WLS WJAS  
WJAS WKRC WLAC WLWB WLZ  
WMSB WMBD WMT WNAO WNOX

**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  
WDBO WDNC WDOD WDRG WDSU  
WFBL WGLC WGR WHFC WHP  
WIBW WJAS WJSV WKRC WLAC  
WLWB WLZ WMBR WMT WNOX  
WOKO WOHK WPG WQAM WREO  
WSBT WSFA WSJS WSPD WWVA

**R — Dale Carnegie, Talks**  
WBEN WCAE WEAF WEEI WFBR  
WFI WGY WJAR WLC WSAI  
WTAG WTAM WTIC WWJ

**E-1:30 p.m., C-12:30, M-11:30, P-10:30**  
**R — Miss Babo's Surprise**  
WBEN WCAE WDSH WDAF WEAF  
WEEI WFBR WFI WGY WJAR  
WMAQ WOW WRC WSAI WTAG  
WTAM WWJ

**C — Little Jack Little**  
CKLW KMBC KMOX KRLL WABC  
WADC WBBM WBT WCAU WCCO  
WFBL WFBM WGR WHAS WHK  
WJAS WJSV WKRC WQOW

**E-1:45 p.m., C-12:45, M-11:45, P-10:45**  
**C — Pat Kennedy; Art Kassel**  
CFRB CKLW KDB KERN KFBK  
KFFY KPRC KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KRLL  
KSL KVI KWG WABC WBBM  
WBNS WCAO WCAU WCCO WDSU  
WFBM WGR WGST WHAS WHK  
WJAS WJSV WKRC WMT WQOW  
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  
KFFY KPRC KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLL KSL KVI KWG WABC WADC  
WBBM WBNS WBT WCAO WCAU  
WCCO WDBJ WDRG WDSU WEAN  
WFBL WFBM WGST WHAS WHFC  
WHP WIBW WJAS WJSV WKBW  
WKRC WLAC WMBG WMT WNAO  
WQOW

**B — Anthony Frome; Poet Prince**  
KDKA KOIL KSO KWCR KWR  
WBAL WBZ WBZA WENR WGAK  
WJR WJZ WMAL WREN WSYR

**R — Immortal Dramas**  
KDYL KFI KFYR KGHIL KGIR  
KSTP KOA KOA KOMO KPO KSD  
KGV KTAO KVOO KYW WBEN  
WDSH WDAY WEAF WEBC WEEI  
WFBR WGY WHO WIBA WJOD  
WJAR WJAX WKY WMAQ WOW  
WTFE 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  
KFFY KPRC KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KOMA  
KRLL KSL KVI KWG WABC  
WADC WBBM WBT WCAO WCAU  
WCCO WDBJ WDRG WDSU WEAN  
WFBL WFBM WGST WHAS WHFC  
WHP WIBW WJAS WJSV WKBW  
WKRC WLAC WMBG WMT WNAO  
WNOX

**SUNDAY (Continued)**

**B — Lux Program; Dramas**  
KDKA KDYL KFI KFYR KGO  
KGW KHQ KOA KOIL KOMO KPRC  
KSO KSTP KTBS KTHS KVOO  
KWCR KWK WBAL WBZ WBZA  
WDAY WEBC WFAA WGAR WHAM  
WIBA WJW WJZ WKY WLW WMAL  
WQAI WPTF WREN WRVA WSYR  
WTAR

**R — Swift Garden; Mario Chamlee**  
KSD KYW WCAE WCSH WEAF  
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 GKAC CKLW KFH KGKO  
KHL KLRA KLZ KOH KRLL KSCJ  
KSL KTHH KTSa KVOR KWKH  
WABC WADC WALA WBIG WBNS  
WBT WCAO WCAU WCCO WDAE  
WDBJ WDBO WDNC WDOF WDRC  
WDSU WEAN WFBL WFBM WFEA  
WGLC WGR WHCC WHK WHP  
WIBV WICC WISN WJAS WJSV  
WKRC WLAC WLWB WLBS WMAZ  
WMBD WMBR WMT WNAO WOKO  
WORC WQAM WRC WSBT WSPA  
WSJS WSPD WTOG

**R — Sally of The Talkies**  
WAPI WBEN WCAE WCSH WDAF  
WEAF WEEL WFBR WGY WJO  
WJAR WJDX WLIT WMAQ WMC  
WOC WOW WRC WSAI WSB WSM  
WSNB 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 WBEN WCAE WCSH  
WDAF WEAF WEL WFBR WGY  
WJO 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 WJAS  
WJZ WJR WLW WLW WMAZ  
WNAC WNBH WOC WOKO WOL  
WOR WORC

**R — Rhythm Symphony**  
KDYL KFI KGW KOA KOMO KPO  
KPRC KTBS WAPI WAVE WBAF  
WBEN WCSH WDAF WEAF WEBC  
WEEL WFBR WFLA WGY WIBA  
WIOD WJAR WJAX WJDX WLIT  
WMAQ WMC WQAI WPTF WRC  
WRVA WSAI WSB WSM WSNB  
WTAG WTAM WTIC WWJ

**B — Jolly Coburn and Orchestra**  
KDKA KOIL KSO KWCR WBAL  
WBZ WBZA WCKY WENR WFL  
WJZ WKBFB 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 WBAF WBNB WCAE WCSH  
WDAF WEAF WEEL WFBR WGY  
WJAR WKY WMAQ WQAI WRC  
WSAI WTAG WTAM WTIC WWJ

**B — Morton Downey**  
KDKA KOIL KSO KWCR WBAL  
WBZ WBZA WCKY WENR WHAM  
WJZ WKBFB WMAL WREN WSYR

**E-4:45 p.m., C-3:45, M-2:45, P-1:45**  
**R — Dream Drama**  
WBEN 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 KRLL KSL KTRH  
KTSa KTUL WAAB WABC WADC  
WBBM WBIG WBRC WBT WCAO  
WCAU WCCO WDOF WDRC WDSU  
WEAN WFBL WFBM WGR WGST  
WHAS WHCC WHK WIBV WJAS  
WJSV WKBN WKRC WLAC WLW  
WMAZ WMBG WOKO WORC WOWO  
WREC WSPD

**R — Sentinels Serenade**  
CFRC CRCT KDYL KFI KFYR  
KGO KGW KHQ KOA KOMO WAVE  
WBEN WCAE WCSH WDAF WEAF  
WEBC WEEL WFBR WFI WGY  
WJO WIBA WJAR WKBFB 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 WBAF WBZ  
WBZA WENR WGAR WHAM WJR  
WJZ WKY WLW WMAL WQAI  
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 WHCC  
WHK WIBV WICC WJSV WMAZ  
WOKO WORC WSPD WVVVA

**R — Tony Wans**  
CFRC CRCT KDYL KFI KFSB  
KFYR KGW KHQ KOA KOMO KPO  
KPRC KSD KSTP KTAR KTHS  
KVOO KYW WAPI WAVE WBAF  
WBEN WCAE WCSH WDAF WDAY  
WEAF WEBC WEEL WFBR WGY  
WJO WIBA WIOD WIS WJAR  
WJAX WJDX WKBFB WKY WMAQ  
WMC WQAI WOW WPTF WRC  
WRVA WSAI WSB WSNB WTAG  
WTAM WTAR WTIC WTMJ WWJ  
WYWC

**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 KFB KERN KFBK  
KFFY KFRG KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KRLL  
KSL KVI KWG WAAB WABC  
WBBM WBNS WBT WCAO WCAU  
WCCO WDRC WDSU WEBL WFBM  
WGST WHAS WHCC WHK WJAS  
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 KFBK

KFPY KFRG KGB KHJ KLZ KMJ  
KMOX KOIN KOL KRLL KSL KVI  
KWG WAAB WABC WBBM WBNS  
WBRC WBT WCAU WCCO WDRC  
WDSU WEAN WFBL WFBM WFEA  
WGST WHAS WHK WHP WICC  
WISN WJAS WJSV WKBW WKRC  
WLAC WLWB WLWZ WORC WQAM  
WREC WVVVA

**R — Armco Iron Master**  
KPRC KSD KTBS KVOO WBAF  
WBEN WCAE WDAF WEAF WFBM  
WGY WHO WKY WLIT WLW  
WMAQ WQAI 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 WEBC  
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  
WBBM WBT WCAO WCAU WCCO  
WDRC WENR WFBL WHAS WHK  
WJAS WJSV WKBW WKRC WNAC  
WOWO WVVVA

**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 WBAF WBZ  
WBZA WEBC WGAR WHAM WJAX  
WJDX WJR WJZ WKY WLS WLW  
WMAL WMC WQAI WREN WSB  
WSM WSNB WSYR WTMJ

**C — Alexander Woolcott**  
KDB KERN KFBK KFPY KFRG  
KGB KHJ KLZ KMBC KMOX  
KOIN KOL KSL KVI KWG WABC  
WBBM WCAO WCAU WCCO WDRC  
WFBL WGR WHAS WHK WJAS  
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 KFYR KGO  
KGW KHQ KOA KOIL KOMO KPRC  
KSO KSTP KTAR KVOO KWCR  
KWK WBAL WBZ WBZA WDAY  
WEBC WFAA WFLA WGAR WHAM  
WIBA WIOD WJAX WJDX WJR  
WJZ WKY WLS WMAL WMC WQAI  
WPTF WREN WRVA WSB WSM  
WSNB WSYR WTMJ

**C — Gulf Headliners**  
CKLW KLRA KRLL KTRH KTSa  
WABC WACO WADC WALA WBIG  
WBNS WBRC WBT WCAO WCAU  
WDAE WDBJ WDBO WDOF WDRC  
WDSU WEAN WFEA WGST WHAS  
WHCC WHK WJAS WJSV WKRC  
WLAC WLWB WMAZ WMBR  
WNAC WOKO WORC WOWO WQAM  
WREC WSPD WTOG

**R — American Radiator Musical**  
WBEN 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 WBEN WCAE WCSH  
WEAF WFBR WGY WHO WJAR  
WKBFB 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 KFBK

## SUNDAY (Continued)

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

### R — Chase and Sanborn Hour

CFCF CRCT KDYL KFI KFYZ  
KGO KGW KHJ KOA KOMO KPIC  
KSD KSTP KTAH KVOO WAPI  
WAVE WBBN WBZ WBZA WCAE  
WCSH WDAF WDAY WEAF WEBC  
WFAA WFBR WFLA WGY WIO  
WIOD WIS WJAR WJAX WJDX  
WKY WLIT WLW WMAQ WMC  
WQAI WOC WOV WPTF WVIC  
WRVA WSB WSM WSMB WTAG  
WTAM WTIC WTMJ WWJ WUNC

### B — General Motors Symphony

KDKA KOIL KSO KWCR KWK  
WBAL WBZ WBZA WCKY WGAR  
WHAM WJR WJZ WLS WRIN  
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 KTSK  
KTUL KVI KWG KWKH WABC  
WBBM WBRC WBT WCAO WCAU  
WCCO WDRG WDSU WEAN WFBL  
WFBI WGR WGST WHAS WHK  
WJAS WJSV WKRC WNAO 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 KSL KSL KTRH KTSK  
KTUL KVI KVCOR KWKH WABC

WACO WADC WALA WBBM WBIG  
WBNS WBRC WBT WCAO WCAU  
WCCO WDAE WDBJ WDBO WDNB  
WDOD WDRG WDSU WDEAN WFBL  
WFBM WFEA WGLC WGR WGST  
WHAS WHEC WHK WHF WIBW  
WIBX WICC WISN WJAS WJSV  
WKBH WKBN WKRC WLAC  
WLW WLW WBZ WMAJ WMBR WMT  
WNAO WNAO WNOX WOKO WORC  
WOWO WQAM WSBT WSPA WSJS  
WSPD WTOG WWVA

### R — Manhattan Merry-Go-Round

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

### B — Silken Strings; Charles Previn

KDKA KDYL KFI KGO KGW KHJ  
KOA KOAL KOIL KOMO KPIC KSO  
KSTP KWCR KWK WBAL WBAW  
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 KHJ KOA KOMO KPIC KSD  
KSTP KVOO WBBN WCAE WCSH  
WDAF WEAF WEEI WFAA WFBR  
WFI WFLA WGY WHO WIOD WIS  
WJAR WJAX WJDX WKY WMAQ  
WMC WQAI WOC WOV WPTF  
WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WTMJ WWJ  
WUNC

### 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 KFYZ KGHL  
KGHI KGO KGW KHJ KOA KOMO  
KPIC KSTP KTAH KTBS KTHS  
WAPI WAVE WHAP WBBN WCAE  
WCSH WDAF WDAY WEAF WEBC  
WEEI WFBR WFI WFLA WGY  
WHO WIBA WIOD WIS WJAR  
WJAX WJDX WEAF WKY WLW  
WMAQ WMC WQAI WOC WOV  
WPTF WRC WRVA WSB WSM  
WSMB WSOO WTAG WTAM WTIC  
WTMJ WWJ WUNC

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

### C — Dramatic Guild

CKAC CKLW KFH KGKO KHJ  
KLRA KLZ KMBC KOH KRLD  
KSCJ KTRH KTSK KVCOR KWKH  
WABC WACO WADC WALA WBIG  
WBNS WBT WCAO WCAU WCCO  
WDAE WDBJ WDBO WDNB WDOD  
WDRG WDSU WDEAN WFBL WFBI  
WFEA WGLC WGR WHEC WHF  
WIBX WICC WISN WJAS WJSV  
WKRC WLAC WLW WLW WMAJ  
WMBD WMBR WMT WNAO WNOX  
WOKO WORC WPG WQAM WREC  
WSBT WSPA WSJS WSPD WTOG

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 KTSK KVCOR KWKH WABC  
WACO WADC WBBM WBNS WBT  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDNB WDOD WDRG WDSU  
WEAN WFBL WFEA WGLC WGR  
WHEC WHK WHF WIBX WISN  
WJAS WJSV WKRC WLAC WLW  
WLW WMAJ WMBD WMBR WMT  
WNAO WNAO WNOX WOKO WORC  
WPG WQAM WREC WSBT WSPA  
WSJS WSPD WTOG

## 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, 6:30 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, 10:30 p.m. Saturday, C  
N. Y. Philharmonic, 3:00 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.; 9:00 p.m.  
Sat., B  
Cab Calloway, 12 Mid. Sat. and Sun., C  
Jelly 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, 10:30 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**  
**Willard 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, C**  
**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, 9:00 p.m. Wednesday, C**  
**Walter O'Keefe, 10:30 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, B**

### 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**  
**Huck 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**  
**Soconyland 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 Hab-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**  
**Sentinel's 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 Bonelli, 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 Lastman, 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**  
**Lily 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, 5:30 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  
 Emilin' 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.
- n No information available.

### Fourth Column Symbols

- A American Broadcasting System.

- B National "Blue" network.
- C Columbia network
- D Daytime only.
- Dn Daytime 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

**540 kilocycles 555.2 meters**  **KCY5.**  
**CJRM ak 1000 F Moose Jaw, Sask. M-7-23 600**  
**XEAF z 250 ..... Nogales, Son. M-**

**550 kilocycles 545.1 meters**  **600**  
**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 D San Jose, C. R. C-.....**  
**WDEV ae 500 D Waterbury, Vt. E-7:30-10; 11:30-14; 15-19**  
**WGR ae 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**   
**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**  
**WQAM ae 1000 C Miami, Fla. E-7:30-24**  
**XEAO ak 250 (.15) Mexicali, B. C. P-8-22**

**570 kilocycles 526.0 meters**   
**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 ae 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**   
**CHRC ak 100 F Quebec, Que. E-9-0:30**  
**CKCL 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**  
**WCBS ak 500 (1) Charleston, W. Va. E-7-23**  
**WDBO 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**   
**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 5000 ..... PiedrasNegras, Coah. C-5-24**

**600 kilocycles 499.7 meters**   
**CFCF ae 400 ..... Montreal, Que. E-8-24**  
**CJOR ae 500 ..... Vancouver, B. C. P-7:30-23:15**  
**CRCW z 1000 F Windsor, Ont. E-.....**  
**FON z 250 609 St. Pierre, Miquelon L-Silent**  
**KFSD 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**

**KCY5.**  
**600**  
**DIAL**

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**610 kilocycles 491.5 meters**

CMCF	ak	250	.....	Havana, Cuba
KFCF	ak	1000	C (5)	San Francisco, Calif.
WDAF	ak	1000	R (5)	Kansas City, Mo.
WIP	ae	1000	A	Philadelphia, Pa.
WJAY	ae	500	A	Cleveland, Ohio
XFX	ak	500	.....	Mexico City, D. F.

E	-12-14; 18-20; Tues., 21-23
P	-7-24
C	-6:30-24
E	-7-1
E	-6-18:30
C	-7-12; 16:30-22:30

**620 kilocycles 483.6 meters**

KGW	ak	1000	N (5)	Portland, Ore.
KTAR	ae	1000	N	Phoenix, Ariz.
WFLA	ae	1000	Na	Clearwater, Fla.
WHJB	ak	250	(.5)	Greensburg, Pa.
WLZ	ak	500	C (1)	Bangor, Maine
WSUN	ae	1000	Na (1)	St. Petersburg, Fla.
WTMJ	ae	1000	N (5.)	Milwaukee, Wis.

P	-7-24
M	-7-23:15
E	-7:30-24
E	-7-sunset
E	-8-24
E	-7:30-24
C	-6:45-0:30

**630 kilocycles 475.9 meters**

CFCY	ae	1000	F	Char't'w'n, P.E.I.
CJGX	ak	500	F	Yorkton, Sask.
CKOV	ak	100	F	Kelowna, B. C.
CMBY	z	250	635	Havana, Cuba
KFRU	ak	500	1(1)	Columbia, Mo.
KGFX	ak	200	D	Pierre, S. D.
WGBF	ae	500	I	Evansville, Ind.
WMAL	ak	250	B (.5)	Washington, D. C.
WOS	ak	500	1D	Jefferson City, Mo.
WPRO	ak	250	A	Providence, R. I.
XEZ	z	500	..	Merida, Yuc.

A	-12-13:30; 18-23:30
C	-8:30-9:15; 10:30-12; 19:30-21:30
P	-8-10; 11:30-13:30; 17:30-22:30
E	.....
C	-6-9; 16-sunset; 19-21; Mon. to 24
C	-9:30-sunset
C	-7:19; Tues. to 23
E	-6:45-1
C	-9-16
E	-8-1:15
C	-

**640 kilocycles 468.5 meters**

KFI	ak	50000	N	Los Angeles, Calif.
WAU	ae	500	.....	Columbus, Ohio
WOI	ae	5000	D	Ames, Iowa
XEOX	ak	250	.....	Saltillo, Coah.

P	-6:30-24
E	-6:15-17:30
C	-6:45-17
C	.....

**650 kilocycles 461.3 meters**

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

WAAW	ak	500	D	Omaha, Neb.
WEAF	ak	50000	R	New York, N. Y.

C	-6-18:15
E	-6:45-1

**670 kilocycles 447.5 meters**

WMAQ	ck	50000	N	Chicago, Ill.
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C	-7-1
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**680 kilocycles 440.9 meters**

CMAF	ak	1000	.....	Havana, Cuba
CMGO	z	1000	.....	Havana, Cuba
KFEQ	ae	2500	D	St. Joseph, Mo.
KPO	ak	50000	N	San Francisco, Calif.
RDN	z	500	.....	San Salvador, E. S.
VAS	z	2000	685	Glace Bay, N. S.
VOWR	ck	500	681	St. John's, Nfld.
WPTF	ae	5000	DnN	Raleigh, N. C.

E	-17:30-23
C	-6-17:45
P	-7:30-24
L	.....
A	-23-23:10; 0-0:10
L	-11-18:30
E	-7:30-sunset

**690 kilocycles 434.5 meters**

CFRB	ae	10000	C	Toronto, Ont.
CJCJ	ak	100	F	Calgary, Alta.
NAA	ak	1000	.....	Arlington, Va.
XET	ck	500	.....	Monterrey, N. L.

E	-8-0:30
M	.....
E	-10:10-10:15; 11:55-12; 21:55-22
C	-12-14; 16-22

**700 kilocycles 428.3 meters**

WLW	ak	500000	N	Cincinnati, Ohio
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E	-6:30-3
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**710 kilocycles 422.3 meters**

KMPC	ae	500	Dn	Beverly Hills, Calif.
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P	-6:45-0:30
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KPCB ae 250 .....  
 TIFB z 30 714  
 WOR ak 5000 X  
 XEN ak 1000 711

Seattle, Wash.  
 San Jose, C. R.  
 Newark, N. J.  
 Mexico City, D. F.

P-5:30-sunset; 22-4  
 C-6-10  
 E-6:45-0:30  
 C-9-12; 13-16; 17-24

## 720 kilocycles 416.4 meters

CMK ae 3150 725  
 WGN ck 50000 .....

Havana, Cuba  
 Chicago, Ill.

E-11-13; 19-24  
 C-7-1:30; Mon. to 2

## 730 kilocycles 410.7 meters

CFPL ak 100 F  
 CJCA ah 1000 F  
 CKAC ak 5000 C  
 XEBC ak 5000 .....

London, Ont.  
 Edmonton, Alta.  
 Montreal, Que.  
 Agua Caliente, L. C.

E-8:15-10:30; 12-13:30; 17-23:30  
 M-7:30-14; 15:30-23  
 E-7:30-1  
 P-.....

## 740 kilocycles 405.2 meters

KMMJ ae 1000 D  
 KTRB ak 250 D  
 WHEB ak 250 D  
 WSB ah 50000 N  
 XELC z 100 .....

Clay Center, Neb.  
 Modesto, Calif.  
 Portsmouth, N. H.  
 Atlanta, Ga.  
 Mexico City, D. F.

C-5-18  
 P-.....  
 E-8-13:30; 15:15-18  
 C-6:55-24  
 C-

## 750 kilocycles 399.8 meters

CMCW dk 150 755  
 KGU aj 2500 N  
 WJR ak 10000 B

Havana, Cuba  
 Honolulu, T. H.  
 Detroit, Mich.

E-12-18; 1-3  
 L-6:30-22:30  
 E-6-24

## 760 kilocycles 394.5 meters

KXA ae 250 (.5)  
 WBAL ae 10000 BSy  
 WEW ae 1000 D  
 WJZ ck 50000 BSy

Seattle, Wash.  
 Baltimore, Md.  
 St. Louis, Mo.  
 New York, N. Y.

P-.....  
 E-21-24  
 C-8-17  
 E-8-1

## 770 kilocycles 389.4 meters

CMBS ak 150 775  
 KFAB ae 5000 CSy  
 WBBM ae 25000 CSy

Havana, Cuba  
 Lincoln, Neb.  
 Chicago, Ill.

E-10-12; 15:30-18  
 C-6-17:45; 20:30-21:30; 22-24  
 C-6:50-2:15

## 780 kilocycles 384.4 meters

CHWK ak 100 F  
 CKSO z 1000 F  
 KELW ae 500 2  
 KFDY ae 1000 D  
 KFOD ck 250 .....  
 KGHL ak 1000 N (2.5)  
 KTM ak 500 2 (1)  
 WEAN ae 500 C (.25)  
 WMC aj 1000 N (2.5)  
 WTAR ae 500 N (1)  
 KEYZ z 10000 .....

Chilliwack, B. C.  
 Sudbury, Ont.  
 Burbank, Calif.  
 Brookings, S. D.  
 Anchorage, Alaska  
 Billings, Mont.  
 Los Angeles, Calif.  
 Providence, R. I.  
 Memphis, Tenn.  
 Norfolk, Va.  
 Mexico City, D. F.

P-12-13:30; 18-22:30  
 E-.....  
 P-10-13; 17-20; 4-6  
 C-12:30-14  
 L-18-24  
 M-8-23  
 P-6-10; 13-17; 20-4  
 E-7:30-1  
 C-7-24  
 E-7-24  
 C-10-23

## 790 kilocycles 379.5 meters

CMJK ak 150 .....  
 KGO ak 7500 N  
 WGY ak 50000 R

Camaguey, Cuba  
 San Francisco, Calif.  
 Schenectady, N. Y.

E-11:30-12:30; 17-23  
 P-7-24  
 E-6:45-1

## 800 kilocycles 374.8 meters

TIGP z 75 .....  
 WBAP ak 50000 Na  
 WFAA ak 50000 Na  
 WTBO ae 250 D

San Jose, C. R.  
 Fort Worth, Tex.  
 Dallas, Tex.  
 Cumberland, Md.

C-.....  
 C-8:30-10:30; 12:30-15; 17:30-18:30; 22-24  
 C-6:45-8:30; 10:30-12:30; 15-17:30; 18:30-22  
 E-6-19:15

## 810 kilocycles 370.2 meters

WCCO ae 50000 C  
 WNYC ak 1000 N  
 XFC z 350 .....

Minneapolis, Minn.  
 New York, N. Y.  
 Aguascalientes, Ags.

C-7-24  
 E-10-19:30  
 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.  
CMQ 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-.....  
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 5000 Na Chicago, Ill.  
WLS ae 5000 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.  
WCOE 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.  
KSEJ 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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WLBL 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 .....	Glensuegos, Cuba	E-11-13; 18:30-21:30; Tues. 3-4
CRCM ak 5000 F	Montreal, Que.	E-
TICR z 75 911	San Jose, C. R.	C-16:30-22
XENT ck 60000 .....	Nuevo Laredo, Tams.	C-18-1

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## 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
WBOS ae 500 D	Babson Park, Mass.	E-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-

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## 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

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KCYS.  
970  
DIAL

## 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

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## 950 kilocycles 315.6 meters

CMCD 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

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## 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

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## 970 kilocycles 309.1 meters

CMGF ak 100 971.5	Matanzas, Cuba	E-15-17; 20-22:30
KJR 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

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## 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, Tama.

E-7-1

E-7-1

C-11-16; 18-2

C-9:30-14:30; 17-22

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## 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

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## 1010 kilocycles 296.9 meters

CHML ael 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  
KQW 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

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## 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

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## 1030 kilocycles 291.1 meters

CFCN ak 10000 F  
CKLW ae 5000 C  
CMBC dc 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

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## 1040 kilocycles 288.3 meters

CMGH ak 15 .....  
KRLD ae 10000 C  
KWJ 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

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## 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

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## 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

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

WDZ ak 100 WTAM ck 50000	D R	Tuscola, Ill. Cleveland, Ohio	C-7:30-15:30 E-6:30-1
<b>1080 kilocycles      277.6 meters</b>			
WBT ae 50000 WCBW ak 5000 WMBI ae 5000 XEMA z 50	C 1Dny 1Dn .....	Charlotte, N. C. Waukegan, Ill. Chicago, Ill. Tampico, Tams.	E-7:30-24 C-7:30-10:30; 13:30-14:30; 15:30-24 C-7-7:30; 10:30-13:30; 14:30-15:30; Tues. 0-1 C-.....

CMGI z 30 KMOX ak 50000 WESG ak 1000	1094 C .....	Colon, Cuba St. Louis, Mo. Elmira, N. Y.	E-..... C-5:30-24 E-7:30-19
<b>1100 kilocycles      275.1 meters</b>			

CMCY ak 500 CMHA z 50 CRCV ak 1000 KGDW ak 1000 KWKH ae 10000 TIRCA ak 500 WLWL ae 5000 WPG ak 5000 XEFG ak 250	..... 1103 F D C i 1C 1105	Havana, Cuba Sagua la Grande, C. Vancouver, B. C. Stockton, Calif. Shreveport, La. San Jose, C. R. New York, N. Y. Atlantic City, N. J. Mexico City, D. F.	E-..... E-..... P-11-15:15; 17:30-23 P-6-Sunset; 0-6 C-..... C-..... E-18-20 E-9-18; 20-1 C-.....
<b>1110 kilocycles      272.6 meters</b>			

KSOO ak 2500 WRVA ae 5000	Dn N	Slour Falls, S. D. Richmond, Va.	C-6:30-18:30 E-7-24
<b>1120 kilocycles      270.1 meters</b>			

CHLP z 100 CHSJ ae 100 CKOC ae 500 CKX ak 100 CMCG z 150 CMHJ ae 40 CFJO ak 100 KFSG ag 1000 KRKD ae 1000 KRSC ck 100 WDEL ak 250 WISN ak 250 WMFH z 500 WTAW ae 500	..... F F (1) F 1125 1125 D a a (2.5) D (.5) (1) DP .....	Montreal, Que. St. John, N. B. Hamilton, Ont. Brandon, Man. Havana, Cuba Cienfuegos, Cuba Spokane, Wash. Los Angeles, Calif. Los Angeles, Calif. Seattle, Wash. Wilmington, Del. Milwaukee, Wis. Boston, Mass. College Station, Tex.	E-9-14; 17-24 A-..... E-7:45-13:30; 16-24 C-12-12:30; 19-23 E-Mon. 12-18; Tues. 9-12; 18-24 E-11-13; 17-21 P-6-17 P-6:30-7:15; 19:30-24 P-7:45-19:30; Mon. to 24 P-6-Sunset E-9-22 C-..... E-..... C-11:50-12:30; Mon. 20-21
<b>1130 kilocycles      267.7 meters</b>			

KSL ae 50000 WJJD ak 20000 WOV ag 1000	C Dn A D	Salt Lake City, Utah Chicago, Ill. New York, N. Y.	M-6:30-24 C-6-18:45 E-8-18
<b>1140 kilocycles      265.3 meters</b>			

KVOO ak 25000 WAPI ae 5000	1N 1N	Tulsa, Okla. Birmingham, Ala.	C-6:30-21 C-6-sunset; 21-24
<b>1150 kilocycles      263.0 meters</b>			

CMBG z 225 CMJH ak 50 WHAM ae 50000 XEH ak 250 XEWZ s 100	..... ..... B ..... .....	Havana, Cuba Ciego de Avila, Cuba Rochester, N. Y. Monterrey, N. L. Mexico City, D. F.	E-..... E-8-8:30; 10-15; 17:30-22:30 E-8-1 C-9-20 C-.....
<b>1160 kilocycles      260.7 meters</b>			

WWOV ae 10000 WVVA ak 5000 XED ck 500 XEFL z 5000 XEU ak 250	1C 1C ..... P .....	Fort Wayne, Ind. Wheeling, W. Va. Guadalajara, Jal. Tijuana, B. C. Veracruz, Ver.	C-7-18:45; 19:30-23 E-6:30-20:30; Tues. 23-1 C-8-9; 12-15:30; 19-23 P-..... C-7-9; 10-14; 17-23
<b>1160 kilocycles      258.5 meters</b>			

**KCYS.  
1160  
DIAL**

CUT OUT ON DOTTED LINES

# INDEX BY FREQUENCIES AND DIAL NUMBERS

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

<b>1170 kilocycles</b>	<b>256.3 meters</b>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table>			
CMJE z 50 .....	Camaguey, Cuba E.....				
COA z 500 1175	Havana, Cuba E.....				
WCAU ae 50000 C	Philadelphia, Pa. E-8-1				
<b>1180 kilocycles</b>	<b>254.1 meters</b>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table>			
KEX ak 5000 2N	Portland, Ore. P-6:30-17:30; 20-24				
KOB ae 10000 2	Albuquerque, N. M. M-11-21				
VEFEK ak 10 1185	Montmagny, Que. E-Silent				
WDGY ak 1000 D (5)	Minneapolis, Minn. C-6:30-20:15				
WINS ae 1000 .....	New York, N. Y. E-7-19:30				
WMAZ ak 1000 .....	Macon, Ga. E-7-19				
XEFA z 500 .....	Mexico City, D. F. C.....				
<b>1190 kilocycles</b>	<b>252.0 meters</b>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table>			
HIJ z 15 1195	Santo Domingo, D. R. E.....				
WATR ak 100 D	Waterbury, Conn. E-9-17:15				
WQAI ak 50000 N	San Antonio, Texas. C-6:55-13:45; 15-23:30				
WSAZ ak 1000 .....	Huntington, W. Va. E-7-18:45				
<b>1200 kilocycles</b>	<b>249.9 meters</b>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table>			
CHAB ak 100 F	Moose Jaw, Sask. M-7:30-22				
CKTB ak 100 F	St. Catharines, Ont. E-8-13:30; 16-23:30				
CMCJ ak 400 D.....	Havana, Cuba E.....				
KADA ak 100 D	Ada, Okla. C.....				
KFTM ak 100 D	Jonesboro, Ark. C-6-17				
KFJB ak 100 (.25)	Marshalltown, Iowa C-6-9; 12-15; 18-21				
KFXD ae 100 (.25)	Nampa, Idaho C-7-21				
KFNJ ak 100 (.25)	Grand Junction, Col. M-9-21				
KGDE ak 100 (.25)	Fergus Falls, Minn. C-7-21				
KGEK ak 100 .....	Sterling, Colo. M-11:30-13:30				
KFEJ ae 100 .....	Los Angeles, Calif. P-24 hours				
KGHI ak 100 (.25)	Little Rock, Ark. C-8-13; 15-22				
KMLB ak 100 .....	Monroe, La. C.....				
KOOS ae 100 (.25)	Marshfield, Ore. P-8-19				
KSUN ck 100 D	Lowell, Ariz. M-Sunrise-Sunset				
KVOS ak 100 .....	Bellingham, Wash P-7:30-22:30				
KWG ak 100 C	Stockton, Calif. P-7-24				
WABI ak 100 .....	Bangor, Maine E-9-14; 18-22				
WBZ ak 100 .....	Ponca City, Okla. C-6:30-21:45				
WBNO ck 100 1	New Orleans, La. C-12-17 :20-23				
WCAT ak 100 D	Rapid City, S. D. M-12:30-13:30				
WCAX ak 100 .....	Burlington, Vt. E-12-13; Mon. 17-19				
WCLO ak 100 .....	Janesville, Wis. C-7-20				
WFAM ak 100 8	South Bend, Ind. C-6:30-24				
WFBE ak 100 (.25) A	Cincinnati, Ohio E-7-23				
WHBC ak 100 2	Canton, Ohio E-7-9; 12-15; 18-21				
WHBY ak 100 (.25)	Green Bay, Wis. C-7:30-23				
WIBX ak 100 (.3) C	Utica, N. Y. E-8-24				
WIL ak 100 (.25) A	St. Louis, Mo. C-7-23				
WJBC ak 100 6	Bloomington, Ill. C-9-12:30; 15-19:30				
WJBL ae 100 6	Decatur, Ill. C-6:30-9; 12:30-15; 19:30-22				
WJWB ak 100 1	New Orleans, La. C-8-12; 17-20				
WKBO ak 100 3 (.25)	Harrisburg, Pa. E-8-11; 15-24				
WKJC ae 100 3 (.25)	Lancaster, Pa. E-11-15; 18-20				
WLVA ak 100 (.25)	Lynchburg, Va. E-7-14; 17-22				
WMFM z 100 P	Anderson, S. C. E-				
WMPC ak 100 .....	Lapeer, Mich. E-10-14; 15:30-18; 19-20:30				
WNBO ae 100 2	Washington, Pa. E-9-12; 15-18; 21-24				
WRBL ak 100 .....	Columbus, Ga. C-7-21				
WWAE ae 100 8	Hammond, Ind. C-7-8:30; 11-13; 16-17; 18-24				
10-AK ak 15 .....	Stratford, Ont. E-12-13; Mon. 19:15-21				
10-BP ak 25 .....	Wingham, Ont. E-12-13; 19:15-21				
<b>1210 kilocycles</b>	<b>247.8 meters</b>	<table border="1" style="width: 100%; height: 20px; border-collapse: collapse;"> <tr> <td style="width: 33%;"></td> <td style="width: 33%;"></td> <td style="width: 33%;"></td> </tr> </table>			
CHNC ak 100 F	New Carlisle, Que. A-12:30-13:30; 18-24				
CJCU z 50 .....	Aklavik, N. W. T. M-				
CKBI ak 100 F	Prince Albert, Sask. M.....				
CKCH ak 100 F	Hull, Que. E-11:30-13:15; 17:30-23				
CKMC ak 50 .....	Cobalt, Ont. E.....				
CMJI ak 150 .....	Ciego de Avila, Cuba E.....				
KASA ck 100 .....	Elk City, Okla. C-6-8; 9-13:30; 14:30-20				
KDLR ak 100 .....	Devils Lake, N. D. C-8-14:15; 18-20				
KFJI ak 100 .....	Klamath Falls, Ore. P-8:30-21				
KFOR ak 100 (.25)C	Lincoln, Neb. C-7-22:30				



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

KFPW	ak	100	.....	Fort Smith, Ark.	C-6-14; 17:30-21:30
KFVS	ae	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
KJEM	ak	100	.....	Eureka, Calif.	P-7:30-22
KPPC	ak	50	9	Pasadena, Calif.	P-Silent
KWEA	z	100	.....	Shreveport, La.	C-.....
KWFV	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	ae	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
WJEJ	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-.....
WOCL	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
WCAE	ak	1000	R	Pittsburgh, Pa.	E-6:45-1
WPAE	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.	M-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-.....
KGGU	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	ak	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  
 KFOX ak 1000  
 WCAL ah 1000 2 (2.5)  
 WDSU ak 1000 C  
 WHBI ak 1000 1 (2.5)  
 WLB ak 1000 2  
 WNEW ae 1000 1 (2.5)  
 WTCN ak 1000 2 (5)

Havana, Cuba  
 Long Beach, Calif.  
 Northfield, Minn.  
 New Orleans, La.  
 Newark, N. J.  
 Minneapolis, Minn.  
 Newark, N. J.  
 Minneapolis, Minn.

E-12-18  
 P-6-24  
 C-9:45-10:15; 20-22  
 C-7-24  
 E-14-17; 20-22  
 C-Mon. 13-13:30; Tues. 19-20  
 E-7-16; Mon. 16-20; 22-4  
 C-6:15-9:45; 22:35-24

**1260 kilocycles 238.0 meters**

CFRN ak 100  
 KGVO ak 1000  
 KOIL ak 1000 B (2.5)  
 KPAC ak 500 D  
 KRGV ak 500  
 KUOA ak 1000 D  
 KVOA ak 500  
 WHIO ae 1000 C  
 WNBX ak 1000 D  
 WTOC ae 1000 C

Edmonton, Alta.  
 Missoula, Mont.  
 Council Bluffs, Iowa  
 Port Arthur, Texas  
 Weslaco, Texas  
 Fayetteville, Ark.  
 Tucson, Ariz  
 Dayton, Ohio  
 Springfield, Vt.  
 Savannah, Ga.

M-7:30-13:30; 15-16; 17:30-20  
 M-8-22  
 C-6-1  
 C-  
 C-7-21  
 C-7-13; 16-19  
 M-6-9; 12-15; 18-21  
 E-7-1  
 E-7:15-Sunset  
 E-7-1

**1270 kilocycles 236.1 meters**

CMCP z 150  
 HIX ak 1000  
 KGCA ak 100 2D  
 KOL ae 1000 C (2.5)  
 KVOR ae 1000 C  
 KWLC ak 100 2D  
 WASH ak 500 a  
 WFBR ae 500 R  
 WJDX ae 1000 N (2.5)  
 WOOD ak 500 a  
 XEG z 500  
 XFB ak 1000

Havana, Cuba  
 Santo Domingo, D.R.  
 Decorah, Iowa  
 Seattle, Wash.  
 Colorado Spgs., Colo.  
 Decorah, Iowa  
 Grand Rapids, Mich.  
 Baltimore, Md.  
 Jackson, Miss.  
 Grand Rapids, Mich.  
 Ensenada, B. C.  
 Jalapa, Ver.

E-  
 E-11:40-20:10  
 C-8:30-9:45; 10:45-11:30; 12:30-14:30  
 P-6:45-24  
 M-7-23  
 C-7:30-8:30; 9:45-10:45; 11:30-12:30; 14:30-15:30  
 E-7-24  
 E-7-24  
 C-7-23  
 E-7-24  
 P-  
 C-8-9; 13-14:30; 20-23:30

**1280 kilocycles 234.2 meters**

CMCO z 150  
 KFBB ae 1000 (2.5)  
 WCAM ae 500 I  
 WCAP ae 500 I  
 WDOD ae 1000 C (5)  
 WIBA ae 1000 N  
 WORC ak 500 C  
 WRR ak 500  
 WTNJ ak 500 I A

Havana, Cuba  
 Great Falls, Mont.  
 Camden, N. J.  
 Asbury Park, N. J.  
 Chattanooga, Tenn.  
 Madison, Wis.  
 Worcester, Mass.  
 Dallas, Texas  
 Trenton, N. J.

E-  
 M-8-22  
 E-Mon. 11-12; 14-19; 20-24; Tues. 14-17  
 E-Mon. 6-8; 8:30-11; 12-13; Tues. 8:30-13; 20-24  
 C-7-23:30  
 C-7:30-24  
 E-8-24  
 C-7-23  
 E-8-8:30; 13-14; 17-20

**1290 kilocycles 232.4 meters**

KDYL ak 1000 N  
 KLCN z 100 D  
 WEBC ae 1000 N (2.5)  
 WJAS ak 1000 C (2.5)  
 WNBZ z 100 D  
 WNEL ak 500

Salt Lake City, Utah  
 Blytheville, Ark.  
 Superior, Wis.  
 Pittsburgh, Pa.  
 Saranac Lake, N. Y.  
 San Juan, P. R.

M-6:30-1  
 C-10:30-16:30  
 C-7-24  
 E-7:30-0:30  
 E-  
 A-  
 A-  
 A-

**1300 kilocycles 230.6 meters**

CMKJ z 20  
 HIZ z 10  
 KALE ak 500 3C  
 KFAC ak 1000  
 KFH ak 1000 C2  
 KFJR ag 500 3  
 VOAC z 40  
 WBBR ae 1000 1  
 WEVD ak 1000 1  
 WFAB ae 1000 1  
 WFBC ak 1000 (5)  
 WHAZ ae 500 1  
 WIOD ae 1000 N

Guantanamo, Cuba  
 Santo Domingo, D.R.  
 Portland, Ore.  
 Los Angeles, Calif.  
 Wichita, Kans.  
 Portland, Ore.  
 St. John's, Nfld.  
 Brooklyn, N. Y.  
 New York, N. Y.  
 New York, N. Y.  
 Greenville, S. C.  
 Troy, N. Y.  
 Miami, Fla.

E-  
 E-  
 P-7:10:30; 14:30-17; 18-19; Mon. 20-23  
 P-7-24  
 C-7-24  
 P-10:30-14:30; 17-18  
 L-  
 E-6:30-7; 10-12; Tues. 18-20  
 E-7-9; 15-18; Tues. 20-21; 22-23; 0-1  
 E-9-10; 12-15; 21-22  
 E-7:30-14:30; 17:30-22:30  
 E-Silent  
 E-8-24

**1310 kilocycles 228.9 meters**

CHCK ak 50

Charlottetown, P.E.I.

A-12-13:30; 17-21

# INDEX BY FREQUENCIES AND DIAL NUMBERS

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

CJCL	s	100	.....	Kirkland Lake, Ont.	E	.....
CJLS	s	100	.....	Yarmouth, N. S.	A	.....
CKCV	ak	50	F	Quebec, 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
KFFL	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
KFYO	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
WGHN	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
WRAW	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
WTEL	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	s	10	.....	Mexico City, D. F.	C	.....
XEFC	ak	100	.....	Merida, Yuc.	C	11-12
XEFW	ak	250	.....	Tampico, Tama.	C	9-11; 12-14:30; 17-21
XELM	z	15	.....	Mineral del Monte	C	.....
XETB	s	125	.....	Torreón, Coah.	C	.....
XEX	ak	125	.....	Monterrey, N. L.	C	8-21
.....	z	100	PD	Ashland, Ky.	C	.....

## 1320 kilocycles 227.1 meters

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

**KCYS.  
1340  
DIAL**

## 1330 kilocycles 225.4 meters

KGB	aq	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)	Sloux 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

KFPY	ak	1000	C	Spokane, Wash.	P	7-24
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**CUT OUT ON  
DOTTED LINES**

# INDEX BY FREQUENCIES AND DIAL NUMBERS

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

<p><b>KGDY</b> ak 250 <b>D</b>  <b>KGNO</b> ak 250 .....  <b>WCOA</b> ak 500 <b>C</b>  <b>WFEA</b> ae 500 <b>C (1)</b>  <b>WSPD</b> ae 1000 <b>C (2,5)</b>  <b>XFD</b> z 250 .....</p>	<p><b>Huron, S. D.</b>  <b>Dodge City, Kans.</b>  <b>Pensacola, Fla.</b>  <b>Manchester, N. H.</b>  <b>Toledo, Ohio</b>  <b>Orizaba, Ver.</b></p>	<p><b>C</b>.....  <b>C-7-20</b>  <b>C-9-22</b>  <b>E-9-23</b>  <b>E-7-1</b>  <b>C</b>.....</p>
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 30%;"> <p><b>1350 kilocycles</b></p> </div> <div style="width: 30%;"> <p><b>222.1 meters</b></p> </div> <div style="width: 30%; border: 1px solid black; height: 20px;"></div> </div>		
<p><b>CMBD</b> 150 .....  <b>KIDO</b> ak 1000 (2.5)  <b>KWK</b> ak 1000 <b>B (5)</b>  <b>WAWZ</b> ae 250 1 (5)  <b>WBNX</b> ae 250 1</p>	<p><b>Havana, Cuba</b>  <b>Boise, Idaho</b>  <b>St. Louis, Mo.</b>  <b>Zarephath, N. J.</b>  <b>New York, N. Y.</b></p>	<p><b>E-18-23</b>  <b>M-7:30-22</b>  <b>C-6:30-1</b>  <b>E-Mon. 6-9; 19-20:30; Tues. 7:45-8:45; 17-18:30</b>  <b>E-6-7:30; 9-13</b></p>
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 30%;"> <p><b>1360 kilocycles</b></p> </div> <div style="width: 30%;"> <p><b>220.4 meters</b></p> </div> <div style="width: 30%; border: 1px solid black; height: 20px;"></div> </div>		
<p><b>CMJP</b> ak 75 .....  <b>CMKF</b> z 30 1363  <b>KGER</b> ak 1000 .....  <b>KGIR</b> ak 1000 <b>N (2,5)</b>  <b>WCSC</b> ae 500 (1)  <b>WFBL</b> ak 1000 <b>C (5)</b>  <b>WGES</b> ae 500 1  <b>WQBC</b> ak 1000 <b>D</b>  <b>WSBT</b> ak 500 1</p>	<p><b>Moron, Cuba</b>  <b>Holquin, Cuba</b>  <b>Long Beach, Calif.</b>  <b>Butte, Mont.</b>  <b>Charleston, S. C.</b>  <b>Syracuse, N. Y.</b>  <b>Chicago, Ill.</b>  <b>Vicksburg, Miss.</b>  <b>South Bend, Ind.</b></p>	<p><b>E-10-12; 20-22</b>  <b>E</b>.....  <b>P-7-23</b>  <b>M-8-23:15</b>  <b>E-8-15:30; 18-23</b>  <b>E-7-1</b>  <b>E-7-12; 17-20; 23-1</b>  <b>C</b>.....  <b>C-6:30-24</b></p>
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 30%;"> <p><b>1370 kilocycles</b></p> </div> <div style="width: 30%;"> <p><b>218.8 meters</b></p> </div> <div style="width: 30%; border: 1px solid black; height: 20px;"></div> </div>		
<p><b>CKCW</b> z 100 <b>F</b>  <b>CMGE</b> z 30 1375  <b>KCRG</b> ak 100 2 (25)  <b>KELD</b> z 100 <b>P</b>  <b>KERN</b> ak 100 .....  <b>KFGQ</b> ak 100 .....  <b>KFJM</b> ak 100 (25)  <b>KFJZ</b> ae 100 .....  <b>KFRQ</b> ae 100 <b>DP</b>  <b>KGAR</b> ae 100 (25)  <b>KGFG</b> bk 100 2  <b>KGFL</b> ak 100 4  <b>KGKL</b> ak 100 (25)  <b>KICA</b> ak 100 4  <b>KLUF</b> z 100 (25)  <b>KMAC</b> ak 100 5</p>	<p><b>Moncton, N. B.</b>  <b>Cardenas, Cuba</b>  <b>Enid, Okla.</b>  <b>El Dorado, Ark.</b>  <b>Bakersfield, Calif.</b>  <b>Boone, Iowa</b>  <b>Grand Forks, N. D.</b>  <b>Fort Worth, Texas</b>  <b>Longview, Texas</b>  <b>Tucson, Ariz.</b>  <b>Oklahoma City, Ok.</b>  <b>Roswell, N. M.</b>  <b>San Angelo, Texas</b>  <b>Clovis, N. M.</b>  <b>Galveston, Texas</b>  <b>San Antonio, Texas</b>  <b>San Antonio, Texas</b>  <b>Berkeley, Calif.</b>  <b>Everett, Wash.</b>  <b>Salem, Ore.</b>  <b>Walla Walla, Wash.</b>  <b>Seattle, Wash.</b>  <b>Kansas City, Mo.</b>  <b>Sheridan, Wyo.</b>  <b>Albany, N. Y.</b>  <b>Dothan, Ala.</b>  <b>Danville, Va.</b>  <b>Baltimore, Md.</b>  <b>Philadelphia, Pa.</b>  <b>Fort Wayne, Ind.</b>  <b>Mount Orab, Ohio</b>  <b>Memphis, Tenn.</b>  <b>Calumet, Mich.</b>  <b>Jackson, Mich.</b>  <b>Atlanta, Ga.</b>  <b>Lowell, Mass.</b>  <b>Jacksonville, Fla.</b>  <b>Wilmington, N. C.</b>  <b>Davenport, Iowa</b>  <b>Hattiesburg, Miss.</b>  <b>St. Albans, Vt.</b>  <b>Williamsport, Pa.</b>  <b>Augusta, Maine</b>  <b>Racine, Wis.</b>  <b>Buffalo, N. Y.</b>  <b>Mexico City, D. F.</b>  <b>Morelia, Mch.</b>  <b>San Luis Potosi, SLP</b>  <b>Decatur, Ala.</b></p>	<p><b>A-10:45-13:15; 17:15-24</b>  <b>E</b>.....  <b>C-7-9; 11-14; 17-19:45</b>  <b>C</b>.....  <b>P-7-24</b>  <b>C</b>.....  <b>C-8-20</b>  <b>C-7-23</b>  <b>C</b>.....  <b>M-7-13; 16-22</b>  <b>C-9-11; 14-19; 19:45-22; Mon. to 24</b>  <b>M-6-9:30; 14-19:30</b>  <b>C-8-21:30</b>  <b>M-9:30-14; 19:30-21:30</b>  <b>C</b>.....  <b>C-7-8:30; 10-11; 12-13:30; 16-18; 19-20; 22-0:30</b>  <b>C-6-7; 8:30-10; 11-12; 13:30-16; 18-19; 20-22</b>  <b>P-6-24</b>  <b>P-7:30-12; 16:30-20</b>  <b>P</b>.....  <b>P-6:30-22</b>  <b>P-6-9; 12-15; 18-21</b>  <b>C</b>.....  <b>M-7-22:30</b>  <b>E-7:30-1</b>  <b>C-8-17:15</b>  <b>E-7-14; 17-22</b>  <b>E</b>.....  <b>E-9-23</b>  <b>C-8-13; 16:45-24</b>  <b>E-8-11:30; 12-21</b>  <b>C-7:55-14; 16-22:30</b>  <b>E-7-9; 11:30-13:30; 17:30-20:30</b>  <b>E-7-24</b>  <b>E</b>.....  <b>E-12-15; 18-21</b>  <b>E-7-24</b>  <b>E</b>.....  <b>C</b>.....  <b>C-7:30-9:30; 11-13; 18-20</b>  <b>E</b>.....  <b>E-7:30-20</b>  <b>E-7:30-13:30; 15-21</b>  <b>C-8:50-14:30; 16-22:30</b>  <b>E-8:30-10; 14-15</b>  <b>C</b>.....  <b>C-14-15:30; 21-22</b>  <b>C-9:30-15; 17-22</b>  <b>C</b>.....</p>
<p><b>KONO</b> ak 100 5  <b>KRE</b> ak 100 (25)  <b>KRKO</b> ak 50 1  <b>KSLM</b> z 100 <b>D</b>  <b>KUJ</b> ak 100 .....  <b>KVL</b> ak 100 1  <b>KWKC</b> z 100 .....  <b>KWYO</b> ak 100 .....  <b>WABY</b> ak 100 <b>A</b>  <b>WAGF</b> ak 100 <b>D</b>  <b>WBTM</b> ak 100 (25)  <b>WCBM</b> ae 100 (25) <b>A</b>  <b>WDAS</b> ae 100 (25)  <b>WGL</b> ak 100 <b>C</b>  <b>WHBD</b> ak 100 <b>Y</b>  <b>WHBQ</b> ak 100 .....  <b>WHDF</b> ak 100 (25)  <b>WIBM</b> ak 100 (25)  <b>WJTL</b> ae 100 .....  <b>WLLH</b> ak 100 (25)  <b>WMBR</b> ak 100 <b>C</b>  <b>WMFD</b> z 100 <b>DP</b>  <b>WOC</b> z 100 <b>C</b>  <b>WPFB</b> ak 100 .....  <b>WODM</b> ae 100 <b>D</b>  <b>WRAC</b> ak 100 (25)  <b>WRDO</b> ae 100 .....  <b>WRJN</b> ak 100 .....  <b>WSVS</b> ak 50 <b>D</b>  <b>XEFZ</b> ae 100 .....  <b>XEI</b> ak 125 .....  <b>XEZZ</b> z 100 .....  <b>.....</b> z 100 <b>PD</b></p>		

# INDEX BY FREQUENCIES AND DIAL NUMBERS

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

## 1380 kilocycles

CMJC z 150 1382  
 KOH ak 500 C  
 KOV ak 500 2A  
 WALA ae 500 C (1)  
 WKBH ae 1000 .....  
 WMFE z 250 PD  
 WSMK ak 200 C

## 217.3 meters

Camaguey, Cuba E .....  
 Reno, Nev. P-8-24  
 Pittsburgh, Pa. E-7-24  
 Mobile, Ala. C-8-23  
 LaCrosse, Wis. C-7:30-14; 17-22  
 New Britain, Conn. E .....  
 Dayton, Ohio E-7:20; 22-24

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## 1390 kilocycles

CJRC ck 100 F  
 HIIH ak 15 1395  
 KLRA ae 1000 C (2.5)  
 KOY ae 500 (1)  
 WHK ae 1000 C (2.5)

## 215.7 meters

Winnipeg, Man. C-8-10:15; 11-14; 16-23:30  
 San Ped. de Macoris, DR E .....  
 Little Rock, Ark. C-6:30-23  
 Phoenix, Ariz. M .....  
 Cleveland, Ohio E-7:30-24

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## 1400 kilocycles

CMCR z 150 .....  
 KLO ae 500 C  
 KTUL ak 500 C  
 TGX ak 150 C  
 WARD ak 500 2  
 WBBC ae 500 2 (1)  
 WKBF ak 500 N (1)  
 WLTH ak 500 2  
 WVFW ak 500 2

## 214.2 meters

Havana, Cuba E-12-13; 16-18; 20-21  
 Ogden, Utah M-7-24  
 Tulsa, Okla. C-6:30-24  
 Guatemala City, Gt. C .....  
 Brooklyn, N. Y. E-Mon. 11:15-13; 18-19; Tues. 16-17:30; 21-22  
 Brooklyn, N. Y. E-Mon. 16-18; 22:30-1; Tues. 7-11:30; 18-19:30  
 Indianapolis, Ind. C-6:30-24  
 Brooklyn, N. Y. E-11:30-13:30; 18-19:30  
 Brooklyn, N. Y. E-Mon. 7-11:15; 18-19:30; Tues. 13:30-15:45; 22:30-24

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## 1410 kilocycles

CKFC ak 50 5  
 CKMO ag 100 5F  
 KGRS ae 1000 1 (2.5)  
 WAAB ak 500 C  
 WBCM ae 500 .....  
 WDAG ae 1000 1 (2.5)  
 WHBL ae 500 4  
 WHIS ak 250 2  
 WRBX ae 250 2 (.5)  
 WROK ak 500 4  
 WSFA ak 500 C (1)

## 212.6 meters

Vancouver, B. C. P-15-16:30  
 Vancouver, B. C. P .....  
 Amarillo, Texas C-6-8; 10-12:30; 15-16:30; 18-19:30; 21-22  
 Boston, Mass. E-8-23  
 Bay City, Mich. E-8-24  
 Amarillo, Texas C-8-10; 12:30-15; 16:30-18; 19:30-24; 22-23  
 Sheboygan, Wis. C-6-10; 13-16:30; 18-19:30  
 Bluefield, W. Va. E-7-9; 12-15; 18-20  
 Roanoke, Va. E-9-12; 15-18; 20-23  
 Rockford, Ill. C-10-13; 16:30-18; 19:30-22:30  
 Montgomery, Ala. C-6:30-22:30

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## 1420 kilocycles

CKGB ak 100 .....  
 CKNC ak 100 F  
 KABC ak 100 .....  
 KABN z 100 DP  
 KBPS aj 100 4  
 KCMC ak 100 .....  
 KF1Z ak 100 .....  
 KGFF ak 100 .....  
 KGGC ak 100 .....  
 KGIW ak 100 1  
 KGIX ak 100 P (.25)  
 KIDW z 100 1  
 KORE ae 100 .....  
 KRLC z 100 P  
 KUMA ak 100 .....  
 KXL ae 100 4 (.25)  
 WAGO ak 100 C  
 WAGM ae 100 .....  
 WAZL ak 100 2  
 WEED ak 100 .....  
 WEHC ae 100 3 (.25)  
 WEHS ak 100 .....  
 WELL ak 50 .....  
 WGPC ak 100 .....  
 WHDL ak 100 .....  
 WHFC ae 100 .....  
 WILM aj 100 2  
 WJBO ak 100 D  
 WJMS ak 100 .....  
 WKBI ak 100 .....  
 WLAP ak 100 .....  
 WLBF ak 100 .....  
 WLEU z 100 P (.25)  
 WMAS ak 100 C (.25)  
 WMBC ae 100 (.25)

## 211.1 meters

Timmins, Ont. E-12-13:30; 17-22:30  
 Toronto, Ont. E-8-23:15  
 San Antonio, Texas C-7-22:30  
 Aberdeen, S. Dak. C .....  
 Portland, Ore. P-Silent  
 Texarkana, Ark. C-7-14; 16-21  
 Fond du Lac, Wis. C-10-13; 16-22  
 Shawnee, Okla. C-7:30-15; 17-21  
 San Francisco, Cal. P-9-13; 16-23  
 Alamosa, Colo. M-10-13; 17-19; 22-23  
 Las Vegas, Nev. M .....  
 Lamar, Colo. M-8-10; 13-17; 19-22  
 Eugene, Ore. P-7:45-21  
 Lewiston, Idaho M .....  
 Yuma, Ariz. M-7-9; 11-13; 18-22  
 Portland, Ore. P-8-24  
 Waco, Texas C-8-17  
 Presque Isle, Maine E-11-13; 16-19  
 Hazleton, Pa. E-10:30-14:30; 16-22  
 Rocky Mount, N. C. E-7-21  
 Charlottesville, Va. E-7-13:05; 16-1  
 Cicero, Ill. C-16-18  
 Battle Creek, Mich. E-7:30-23  
 Albany, Ga. C-7-16:45  
 Olean, N. Y. E-7-sunset  
 Cicero, Ill. C-7-13:30; 18-21; 23-1  
 Wilmington, Del. E-7-11; 14-17; 21-24  
 Baton Rouge, La. C .....  
 Ironwood, Mich. C-7:30-19:30  
 Cicero, Ill. C-13:30-16; 21-23  
 Lexington, Ky. C-7-23  
 Kansas City, Kans. C-7-22  
 Erie, Pa. E .....  
 Springfield, Mass. E-7:30-24  
 Detroit, Mich. E-7:30-24

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**KCYS.  
1420  
DIAL**

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

WMBH ak 100 (.25)  
 WMEFJ 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  
 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 .....

## 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  
 C-7-23  
 E-7-23; Tues. to 1  
 E-6-11; 20-24  
 E-Mon. silent; Tues. 13-23  
 C-11-20  
 C-.....

## 1450 kilocycles

CFCT ae 75 .....

## 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 .....

## 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  
 E-7-14; 16-21  
 E-14-18; Tues. 20-22  
 E-7:30-24  
 E-9-22  
 C-6-24  
 C-7-Sunset; 21-24  
 C-7-21  
 C-10-12; 18-22  
 E-9-21

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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
WOPJ 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-.....

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

<p><b>ALABAMA</b></p> <p>Birmingham WAPI 1140 5000 N WBRC 930 1000 C WSGN 1310 100</p> <p>Decatur ..... 1370 100</p> <p>Dothan WAGF 1370 100</p> <p>Gadsden WJBY 1210 100</p> <p>Mobile WALA 1380 500 C Montgomery WSPA 1410 500 C</p> <p>Muscle Shoals WNRA 1420 100</p> <p><b>ALASKA</b></p> <p>Anchorage KFQD 780 250</p> <p>Ketchikan KGBU 900 500</p> <p><b>ARIZONA</b></p> <p>Jerome KCRJ 1310 100</p> <p>Lowell KSUN 1200 100</p> <p>Phoenix KOY 1390 500 KTRAR 620 1000 N</p> <p>Prescott KPJM 1500 100</p> <p>Tucson KGAR 1370 100 KVOA 1260 500</p> <p>Yuma KUMA 1420 100</p> <p><b>ARKANSAS</b></p> <p>Blytheville KLCN 1290 100</p> <p>El Dorado KELD 1370 100</p> <p>Fayetteville KUOA 1260 1000</p> <p>Fort Smith KFPW 1210 100</p> <p>Hot Springs KTHS 1060 1000 N</p>	<p><b>Jonnsboro</b></p> <p>KBTM 1200 100</p> <p>Little Rock KARK 890 250 KGGH 1200 100 KLLRA 1390 1000 C</p> <p>Pine Bluff KOTN 1500 100</p> <p>Texarkana KCMC 1420 100</p> <p><b>CALIFORNIA</b></p> <p>Bakersfield KERN 1370 100 C W6XAI 1550 1000</p> <p>Berkeley KRE 1370 100</p> <p>Beverly Hills KMPC 710 500</p> <p>Burbank KELW 780 500</p> <p>Chico KHSL 950 250</p> <p>El Centro KXO 1500 100</p> <p>Eureka KIEM 1210 100</p> <p>Fresno KMJ 580 500 C</p> <p>Glendale KIEV 850 250</p> <p>Hollywood KFWB 950 1000 KMTR 570 1000 KNX 1050 50000</p> <p>Long Beach KFOX 1250 1000 KGER 1360 1000</p> <p>Los Angeles KECA 1430 1000 KFAC 1300 1000 KFI 640 50000 N KFSG 1120 1000 KFVD 1000 250 KGFJ 1200 100 KHJ 900 1000 C KRKD 1120 1000 KTM 780 500</p> <p>Modesto KTRB 740 250</p>	<p><b>Oakland</b></p> <p>KLS 1440 250 KLX 880 1000 KROW 930 1000</p> <p>Pasadena KPPC 1210 50</p> <p>Sacramento KFBK 1310 100 C</p> <p>San Bernardino KFXM 1210 100</p> <p>San Diego KFSD 600 1000 N KGB 1330 1000 C</p> <p>San Francisco KFRC 610 1000 C KGGC 1420 100 KGO 790 7500 N KJBS 1070 500 KPO 680 50000 N KTAB 560 1000 KYA 1230 1000 N</p> <p>San Jose KQW 1010 1000</p> <p>Santa Ana KREG 1500 100</p> <p>Santa Barbara KDB 1500 100 C</p> <p>Stockton KGDH 1100 1000 KWG 1200 100 C</p> <p><b>COLORADO</b></p> <p>Alamogosa KGIW 1420 100</p> <p>Colorado Springs KVOR 1270 1000 C</p> <p>Denver KREL 920 500 KLZ 560 1000 C KOA 830 50000 N KPOF 880 500 KVOD 920 500</p> <p>Grand Junction KFXJ 1200 100</p> <p>Greeley KFA 880 500</p> <p>Lamar KIDW 1420 100</p> <p>Pueblo KGFH 1320 500</p>	<p><b>Sterling</b></p> <p>KGKX 1200 100</p> <p><b>CONNECTICUT</b></p> <p>Bridgeport WICC 600 500 C</p> <p>Hartford WDRS 1330 1000 C WTIC 1040 50000 R</p> <p>New Britain WMFE 1380 250</p> <p>New Haven WMFI 900 500</p> <p>Storrs WGAC 600 500</p> <p>Waterbury WATR 1190 100 WIXBS 1530 1000 A</p> <p><b>DELAWARE</b></p> <p>Wilmington WDEL 1120 250 A WILM 1420 100</p> <p><b>DISTRICT OF COLUMBIA</b></p> <p>Washington WJSV 1460 10000 C WMAL 630 250 B WOL 1310 100 A WRC 950 500 R</p> <p><b>FLORIDA</b></p> <p>Clearwater WFLA 620 1000 N</p> <p>Daytona Beach WMFJ 1420 100</p> <p>Gainesville WRUF 830 5000</p> <p>Jacksonville WJAX 900 1000 N WMBR 1370 100 C</p> <p>Miami WIOD 1300 1000 N WQAM 560 1000 C</p> <p>Orlando WDBO 580 1000 C</p> <p>Pensacola WCOA 1340 500 C</p> <p>St. Petersburg WSUN 620 1000 N</p>
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<b>Tampa</b> WDAE 1220 1000 C	<b>Rockford</b> WROK 1410 500	<b>Lawrence</b> KFKU 1220 1000 WREN 1220 1000 B	<b>MICHIGAN</b> Battle Creek WELL 1420 50
<b>GEORGIA</b> Albany WGPC 1420 100	<b>Rock Island</b> WHBF 1210 100 A	<b>Manhattan</b> KSAC 580 500	Bay City WBCM 1410 500
Athens WTFI 1450 500	<b>Springfield</b> WCBS 1210 100 WTAX 1210 100	<b>Topeka</b> WIBW 580 1000 C	Calumet WHDF 1370 100
<b>Atlanta</b> WGST 890 500 C WJTL 1370 100 WSB 740 50000 N	<b>Tuscola</b> WDZ 1070 100	<b>Wichita</b> KFH 1300 1000 C	<b>Detroit</b> WJBK 1500 100 A WJR 750 10000 B WMBG 1420 100 WWJ 920 1000 R WKYZ 1240 1000
<b>Augusta</b> WRDW 1500 100	<b>Urbana</b> WILL 890 250	<b>KENTUCKY</b> Ashland 1310 100	<b>East Lansing</b> WJAR 1040 1000
<b>Columbus</b> WRBL 1200 100	<b>Waukegan</b> WCBW 1080 5000	<b>Covington</b> WCKY 1490 5000 B	<b>Flint</b> WFDF 1310 100
<b>Griffin</b> WKEU 1500 100	<b>INDIANA</b> Anderson WBHU 1210 100	<b>Lexington</b> WLAP 1420 100	<b>Grand Rapids</b> WASH 1270 500 WOOD 1270 500
<b>Macon</b> WMAZ 1180 1000	<b>Eikhardt</b> WTRC 1310 50	<b>Louisville</b> WAVE 940 1000 N WHAS 820 50000 C	<b>Irenwood</b> WJMS 1420 100
<b>Rome</b> WRGA 1500 100	<b>Evansville</b> WGBF 630 500	<b>Paducah</b> WPAD 1420 100	<b>Jackson</b> WIBM 1370 100
<b>Savannah</b> WTGC 1260 1000 C	<b>Fort Wayne</b> WGL 1370 100 C	<b>LOUISIANA</b> Baton Rouge WJBO 1420 100	<b>Kalamazoo</b> WKZO 590 1000
<b>Thomasville</b> WPAX 1210 100	<b>WOWO</b> 1160 10000 C	<b>Monroe</b> KMLB 1200 100	<b>Lansing</b> WJIM 1210 100
<b>HAWAII</b> Hilo KWFV 1210 100	<b>Gary</b> WIND 560 1000 A	<b>New Orleans</b> WBNO 1200 100 WDSU 1250 1000 C WJBW 1200 100 WSMB 1320 500 N WWL 850 10000	<b>Lapeer</b> WMPG 1200 100
<b>Honolulu</b> KGMB 1320 250 C KGU 750 2500 N	<b>Hammond</b> WVAE 1200 100	<b>Shreveport</b> KRMD 1310 100 KTBS 1450 1000 N KWEA 1210 100 KWKH 1100 10000 C	<b>Marquette</b> WBEO 1310 100
<b>IDAHO</b> Boise KIDO 1350 1000	<b>Indianapolis</b> WFBM 1230 1000 C		<b>Muskegon</b> WKBZ 1500 100
<b>Idaho Falls</b> KID 1320 250	<b>WKBF</b> 1400 500 N		<b>Royal Oak</b> WEXL 1310 50
<b>Lewiston</b> KRLC 1420 100	<b>Muncie</b> WLBC 1310 50		<b>MINNESOTA</b> Fergus Falls KGDE 1200 100
<b>Nampa</b> KFXD 1200 100	<b>Richmond</b> WKBV 1500 100		<b>Hibbing</b> WMFG 1210 100
<b>Pocatello</b> KSEI 900 250	<b>South Bend</b> WFAM 1200 100 WSBT 1360 500 C		<b>Minneapolis</b> WCCO 810 50000 C WDG Y 1180 1000 WLB 1250 1000 WTCN 1250 1000
<b>Twin Falls</b> KTFI 1240 1000	<b>Terre Haute</b> WBOW 1310 100		<b>Moorhead</b> KGFK 1500 100
<b>ILLINOIS</b> Bloomington WJBC 1200 100	<b>West Lafayette</b> WBAA 890 1000		<b>Northfield</b> WCAL 1250 1000
<b>Carthage</b> WCAZ 1070 100	<b>IOWA</b> Ames WOI 640 5000		<b>St. Paul</b> KSTP 1460 10000 N
<b>Chicago</b> WAAF 920 500 WBBM 770 25000 C WCFL 970 1500 B WCRW 1210 100 WEDC 1210 100 WENR 870 50000 N WGES 1360 500 WGN 720 50000 WJJD 1130 20000 A WLS 870 50000 N WMAQ 670 50000 N WMBI 1080 5000 WSBC 1210 100	<b>Boone</b> KFGQ 1370 100		<b>MISSISSIPPI</b> Clarksdale WMFN 1210 100
<b>Cicero</b> WEHS 1420 100 WHFC 1420 100 WKBI 1420 100	<b>CDar Rapids</b> KRNT 1430 250 B		<b>Gulfport</b> WGMG 1210 100
<b>Decatur</b> WJBL 1200 100	<b>Council Bluffs</b> KOIL 1260 1000 B		<b>Hattiesburg</b> WPFB 1370 100
<b>East Dubuque</b> WKBB 1500 100	<b>Davenport</b> WOC 1370 100 C		<b>Jackson</b> WJDX 1270 1000 N
<b>Harrisburg</b> WEBQ 1210 100	<b>Decorah</b> KGCA 1270 100 KWLC 1270 100		<b>Kosciusko</b> WHFF 1500 100
<b>Joliet</b> WCLJ 1310 100	<b>Des Moines</b> KSO 1320 500 B WHO 1000 50000 R		<b>Laurel</b> WAML 1310 100
<b>Peoria</b> WMBD 1440 500 C	<b>Iowa City</b> WSUI 880 500		<b>Meridian</b> WCOC 880 500
<b>Quincy</b> WTAD 1440 500	<b>Marshalltown</b> KFJB 1200 100		<b>Vicksburg</b> WQBC 1360 1000
	<b>Shenandoah</b> KFNF 890 500 KMA 930 1000		<b>MISSOURI</b> Cape Girardeau KFVS 1210 100
	<b>Sioux City</b> KSCJ 1330 1000 C		<b>Columbia</b> KFRU 630 500
	<b>Waterloo</b> WMT 600 1000 C		<b>Jefferson City</b> WOS 630 500
	<b>KANSAS</b> Abilene KFBI 1050 5000		<b>Joplin</b> WMBH 1420 100
	<b>Coffeyville</b> KGGF 1010 1000		<b>Kansas City</b> KMBC 950 1000 C
	<b>Dodge City</b> KGNO 1340 250		
	<b>Kansas City</b> KANSAS WLBK 1420 100		
		<b>Worcester</b> WOCR 1280 500 C WTAG 580 500 R	



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WDAF 610 1000 R	WAWZ 1350 250	WWRL 1500 100	WBBZ 1200 100
WHB 860 1000	<b>NEW MEXICO</b>	<b>NORTH CAROLINA</b>	Shawnee
W9XBYP 1530 1000	Albuquerque	Asheville	KGFF 1420 100
St. Joseph	KGGM 1230 250	WVNC 570 1000 N	Tulsa
KFEQ 680 2500	KOB 1180 10000	Charlotte	KTUL 1400 500 C
St. Louis	Clovis	WBT 1080 50000 C	KVOO 1140 25000 N
KFUO 550 500	KICA 1370 100	WSOC 1210 100 N	<b>OREGON</b>
KMOX 1090 50000 C	Roswell	Durham	Corvallis
KSD 550 1000 R	KGFL 1370 100	WDNC 1500 100 C	KOAC 550 1000
KWK 1350 1000 B	Santa Fe	Greensboro	Eugene
WEW 760 1000	KIUJ 1310 100	WBG 1440 500 C	KORE 1420 100
WIL 1200 100 A	<b>NEW YORK</b>	Raleigh	Klamath Falls
Springfield	Albany	WPTF 680 5000 N	KFJI 1210 100
KGBX 1230 500	WABY 1370 100 A	Rocky Mount	Marshfield
KWTO 560 1000	WOKO 1430 500 C	WEED 1420 100	KOOS 1200 100
<b>MONTANA</b>	Auburn	Wilmington	Medford
Billings	WMBO 1310 100	WMFD 1370 100	KMED 1310 100
Butte	Binghamton	Winston-Salem	Portland
KGIR 1360 1000 N	WNBF 1500 100 C	WSJS 1310 100 C	KALE 1300 500 C
Great Falls	Brooklyn	<b>NORTH DAKOTA</b>	KBPS 1420 100
KFBB 1280 1000	WARD 1400 500	Bismarck	KEX 1180 5000 N
KallsPELL	WBBC 1400 500	KFYR 550 1000 N	KFJR 1300 500
KGEZ 1310 100	WBBR 1300 1000	Devils Lake	KGW 620 1000 N
Missoula	WCNW 1500 100	KDLR 1210 100	KOIN 940 1000 C
KGVO 1260 1000	WLTH 1400 500	Fargo	KWJJ 1040 500
Wolf Point	WMBQ 1500 100	WDAY 940 1000 N	KXL 1420 100
KGCX 1310 100	WVFW 1400 500	Grand Forks	Salem
<b>NEBRASKA</b>	Buffalo	KFJM 1370 100	KSLM 1370 100
Clay Center	WBEN 900 1000 R	Mandan	<b>PENNSYLVANIA</b>
KMMJ 740 1000	WEBR 1310 100 A	KGCC 1240 250	Allentown
Kearney	WGR 550 1000 C	Minot	WCBA 1440 500
KGFV 1310 100	WKBW 1480 5000 C	KLPM 1240 250	WSAN 1440 500
Lincoln	WWSV 1370 50	<b>OHIO</b>	Altoona
KFAB 770 5000 C	Canton	Akron	WFBG 1310 100
KFOR 1210 100 C	WCAD 1220 500	WADC 1320 1000 C	Carlton
Norfolk	Chester	WJW 1210 100 A	WWPA 850 250
WJAG 1060 1000	WGNV 1210 100	Canton	WLEU 1420 100
North Platte	Elmira	WBHC 1200 100	Glenide
KGNE 1430 1000	WESG 1090 1000	Cincinnati	WIBG 970 100
Omaha	Freeport	WFBC 1200 100 A	Greensburg
WAAW 660 500	WGBB 1210 100	WKRC 550 1000 C	WHJB 620 250
WOW 590 1000 R	Jamestown	WLW 700 500000 N	Greve City
Scottsbluff	WOCL 1210 50	WSAI 1330 1000 R	WSAJ 1310 100
KGKY 1500 100	Long Island City	Cleveland	Harrisburg
York	W2XR 1550 1000	WGAR 1450 500 B	WHP 1430 500 C
KBZ 930 1000	New York	WHK 1390 1000 C	WKBO 1200 100
<b>NEVADA</b>	WABC 860 50000 C	WJA 610 500 A	Hazleton
Las Vegas	WBNX 1350 250	WTAM 1070 50000 R	WAZL 1420 100
KGIX 1420 100	WBOQ 860 50000	Columbus	Johnstown
Reno	WEAF 660 50000 R	WAIU 640 500	WJAC 1310 100
KOH 1380 500 C	WEVD 1300 1000	WBNS 1430 500 C	Lancaster
<b>NEW HAMPSHIRE</b>	WFAB 1300 1000	WCOL 1210 100 A	WGAL 1500 100
Laconia	WHN 1010 1000	WOSU 570 750	WKJC 1200 100
WLNH 1310 100	WINS 1180 1000	Dayton	Philadelphia
Manchester	WJZ 760 50000 B	WHIO 1260 1000 C	KYW 1020 10000 R
WFEA 1340 500 C	WLWL 1100 5000	WSMK 1380 200 C	WCAU 1170 50000 C
Portsmouth	WMCA 570 500	Mount Orab	WDAS 1370 100
WHEB 740 250	WNYC 810 1000	WBHD 1370 100	WFIL 560 1000 B
<b>NEW JERSEY</b>	WOV 1130 1000	Toledo	WHAT 1310 100
Asbury Park	Olean	WSPD 1340 1000 C	WIP 610 1000 A
WCAP 1280 500	WHDL 1420 100	Youngstown	WPEN 920 250
Atlantic City	Plattsburg	WKBN 570 500 C	WRAX 920 250
WPG 1100 5000 C	WMFF 1310 100	Zanesville	WTEL 1310 100
Camden	Rochester	<b>OKLAHOMA</b>	Pittsburgh
WCAM 1280 500	WHAM 1150 50000 B	Ada	KDKA 980 50000 B
Jersey City	WHEC 1430 500 C	KADA 1200 100	KOV 1380 500 A
WAAT 940 500	Saranac Lake	Elk City	WCAE 1220 1000 R
WHOM 1450 250	WNBZ 1290 100	KASA 1210 100	WJAS 1290 1000 C
Newark	Schenectady	Enid	WWSW 1500 100
WHBI 1250 1000	WGY 790 50000 R	KCRC 1370 100	<b>Reading</b>
WNEW 1250 1000	Syracuse	Norman	WEEU 830 1000
WOR 710 5000	WFBL 1360 1000 C	WNAD 1010 1000	WRAW 1310 100
Red Bank	WSYR 570 250 B	Oklahoma City	Scranton
WBRB 1210 100	Troy	KFXR 1310 100	WGBI 880 500
Trouton	WHAZ 1300 500	KGFG 1370 100	WQAN 880 250
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	White Plains	WKY 900 1000 N	
	WFAS 1210 100		

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WKOK 1210 100		KFDM 560 500		WPHR 880 500		WRJN 1370 100	
Washington		College Station		Richmond		Sheboygan	
WNBO 1200 100		WTAW 1120 500		WBBL 1210 100		WHBL 1410 500	
Wilkes-Barre		Corpus Christi		WMBG 1210 100 C		Stevens Point	
WBAX 1210 100		KGFI 1500 100		WRVA 1110 5000 N		WLBL 900 2500	
WBRE 1310 100		Dallas		Roanoke		Superior	
Williamsport		KRLD 1040 10000 C		WDBJ 930 1000 C		WEBC 1290 1000 N	
WRAK 1370 100		WFAA 800 50000 N		WRBX 1410 250		<b>WYOMING</b>	
York		WRR 1280 500		Staunton		Casper	
WORK 1320 1000		Dublin		WSVA 550 500		KDFN 1440 500	
<b>PORTO RICO</b>		KFPL 1310 100		<b>WASHINGTON</b>		Sheridan	
Ponce		El Paso		Aberdeen		KWYO 1370 100	
WPRP 1420 100		KTSM 1310 100		KXRO 1310 100		<b>CANADA</b>	
San Juan		WDAH 1310 100		Bellingham		<b>ALBERTA</b>	
WKAQ 1240 1000		Fort Worth		KVOS 1200 100		Calgary	
WNEL 1290 500		KFJZ 1370 100		Everett		CFAC 930 100 F	
<b>RHODE ISLAND</b>		KTAT 1240 1000 C		KRKO 1370 50		CFCN 1030 10000 F	
Providence		WBAP 800 50000 N		Olympia		CJGJ 690 100 F	
WEAN 780 500 C		Galveston		KWSK 1220 1000		Edmonton	
WJAR 890 500 R		KLUF 1370 100		Seattle		CFRN 1260 100	
WPRO 630 250 A		Greenville		KJR 970 5000 N		CJCA 730 1000 F	
<b>SOUTH CAROLINA</b>		KFPM 1310 15		KOL 1270 1000 C		CKUA 580 500	
Anderson		Houston		KOMO 920 1000 N		Lethridge	
WMFM 1200 100		KPRC 920 1000 N		KPCB 710 250		CJOC 1230 100 F	
Charleston		KTRH 1330 1000 C		KRSC 1120 100		<b>BRITISH COLUMBIA</b>	
WCSC 1360 500		KXYZ 1440 500		KTW 1220 1000		Chilliwack	
Columbia		Longview		KVL 1370 100		CHWK 780 100 F	
WIS 560 1000 N		KFR0 1370 100		KXA 760 250		Kamloops	
Greenville		Lubbock		Spokane		CFJC 880 100 F	
WFCB 1300 1000		KFY0 1310 100		KFIO 1120 100		Kelowna	
Spartanburg		Port Arthur		KFPY 1340 1000 C		CKOV 630 100 F	
WSPA 920 1000		KPAC 1260 500		KGA 900 1000 N		Trail	
WWC 1420 1000		San Angelo		KHQ 590 1000 N		CJAT 910 250 F	
<b>SOUTH DAKOTA</b>		KGKL 1370 100		Tacoma		Vancouver	
Aberdeen		KABC 1420 100		KMO 1330 250		CJQB 600 500	
KABN 1420 100		KMAC 1370 100		KVI 570 1000 C		CKGD 1010 100	
Brookings		KONO 1370 100		Walla Walla		CKFC 1410 50	
KFDY 780 1000		KTSA 550 1000 C		KUJ 1370 100		CKMO 1410 100 F	
Huron		WOAI 1190 50000 N		Wenatchee		CKWX 1010 100 F	
KGDY 1340 250		Tyler		KPO 1500 100		CRCV 1100 1000 F	
Pierre		KGKB 1500 100		Yakima		CFCT 1450 75	
EGFX 630 200		Waco		KIT 1310 100		<b>MANITOBA</b>	
Rapid City		WACO 1420 100 C		<b>WEST VIRGINIA</b>		Brandon	
WCAT 1200 100		Weslaco		Bluefield		CKX 1120 100 F	
Sioux Falls		KRGV 1260 500		WHIS 1410 250		Winnipeg	
KSOO 1110 2500		Wichita Falls		Charleston		CJRC 1390 100 F	
Vermillion		KGKO 570 500 C		WCHS 580 500		CKY 960 15000 F	
KUSD 890 500		<b>UTAH</b>		Fairmont		<b>NEW BRUNSWICK</b>	
Watertown		Ogden		WMMN 890 250		Frederickton	
KWTN 1210 100		KLO 1400 500 C		Huntington		CFNB 550 500 F	
Yankton		Salt Lake City		WSAZ 1190 1000		Moncton	
WNAX 570 1000 C		KDYL 1290 1000 N		Wheeling		CKCW 1370 100 F	
<b>TENNESSEE</b>		KSL 1130 50000 C		WWVA 1160 5000 C		St. John	
Bristol		<b>VERMONT</b>		<b>WISCONSIN</b>		CHSJ 1120 100 F	
WOPI 1500 100		Burlington		Eau Claire		<b>N. W. TERRITORY</b>	
Chattanooga		WCAX 1200 100		WTAQ 1330 1000		Aklavik	
WDOD 1280 1000 C		Rutland		Fond du Lac		CJCU 1210 50	
Jackson		WSYB 1500 100		KFIZ 1420 100		<b>NOVA SCOTIA</b>	
WTJS 1310 100		St. Albans		Green Bay		Glace Bay	
Knoxville		WODM 1370 100		WHBY 1200 100		VAS 685 2000	
WNOX 1010 1000 C		Springfield		Janesville		Halifax	
WROL 1310 100		WNBX 1260 1000		WCLO 1200 100		CHNS 930 1000 F	
Memphis		Waterbury		LaCrosse		Sydney	
WHBQ 1370 100		WDEV 550 500		WKBH 1380 1000		CJOB 1240 1000 F	
WMC 780 1000 N		<b>VIRGINIA</b>		Madison		Wolville	
WNBR 1430 500 A		Arlington		WHA 940 2500		Varmouth	
WREC 600 1000 C		NAA 690 1000		WIBA 1280 1000 N		CJLS 1310 100	
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WSM 650 50000 N		Danville		Milwaukee		CKPC 930 100 F	
Springfield		WBTM 1370 100		WISN 1120 250 C		Chatham	
WSIX 1210 100		Lynchburg		WTMJ 620 1000 N		CFCO 1050 100 F	
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Amarillo		Newport News		WIBU 1210 100			
EGRS 1410 1000		WGH 1310 100					
WDAG 1410 1000		Norfolk					
Austin		WTR 780 500 N					
KNOW 1500 100							

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<b>Fort William</b>		<b>VOAG</b> 1300 40	<b>XEN</b> 710 1000	<b>Cardenas</b>
<b>CKPR</b> 930 100 F		<b>VOAS</b> 940 100	<b>XEO</b> 940 5000	<b>CMGE</b> 1375 30
<b>Hamilton</b>		<b>VOGY</b> 840 400	<b>XEP</b> 840 500	<b>Ciego de Avila</b>
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<b>CKOC</b> 1120 500 F		<b>VOWR</b> 681 500	<b>XEW</b> 890 50000	<b>CMJI</b> 1210 150
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<b>CFRC</b> 1510 100		<b>St. Pierre</b>	<b>XEXX</b> 845 500	<b>Cienfuegos</b>
<b>Kirkland Lake</b>		<b>FQN</b> 609 250	<b>XEYZ</b> 780 10000	<b>CMHJ</b> 1125 40
<b>CJKL</b> 1310 100			<b>XFJ</b> 610 1000	<b>GMHW</b> 910 100
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<b>CFCH</b> 930 100 F		<b>TIGA</b> 1014 30	<b>XEE</b> 1210 50	<b>Cruces</b>
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<b>CKCO</b> 1010 100		<b>TICR</b> 912 75	<b>XELM</b> 1310 15	<b>Guantanamo</b>
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<b>CFLC</b> 930 100		<b>TIRCA</b> 1100 500	<b>Guanajuato</b>	<b>CMAF</b> 680 1000
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<b>CKTB</b> 1200 100 F		<b>TIVL</b> 835 30	<b>Leon</b>	<b>CMBD</b> 1350 150
<b>Sault Ste. Marie</b>			<b>XEKL</b> 1240 500	<b>CMBG</b> 1150 225
<b>CJIC</b> 890 100		<b>GUATEMALA</b>	<b>JALISCO</b>	<b>CMBS</b> 775 150
<b>Stratford</b>		<b>Guatemala City</b>	<b>Guadalajara</b>	<b>CMBX</b> 1435 150
<b>10-AK</b> 1200 15		<b>TGW</b> 565 10000	<b>XEA</b> 1060 125	<b>CMBY</b> 635 250
<b>Sudbury</b>		<b>TGX</b> 1400 150	<b>XED</b> 1160 500	<b>CMBZ</b> 1005 100
<b>CKSO</b> 780 1000		<b>EL SALVADOR</b>	<b>MICHOACAN</b>	<b>CMC</b> 835 500
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<b>CKBG</b> 1420 100		<b>RDN</b> 680 500	<b>XEI</b> 1370 125	<b>CMCB</b> 1060 150
<b>Toronto</b>			<b>NUEVO LEON</b>	<b>CMCD</b> 955 250
<b>CFRB</b> 690 10000 C		<b>MEXICO</b>	<b>Monterrey</b>	<b>CMCF</b> 610 250
<b>CKCL</b> 580 100 F		<b>AGUASCALIENTES</b>	<b>XEFB</b> 1420 100	<b>CMCG</b> 1125 150
<b>CKNC</b> 1420 100 F		<b>Aguascalientes</b>	<b>XEFJ</b> 1230 100	<b>CMCJ</b> 1200 400
<b>CRCT</b> 840 5000 N		<b>XFC</b> 810 350	<b>XEH</b> 1150 250	<b>CMCN</b> 1500 250
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<b>CKCR</b> 1510 100		<b>Agua Calientes</b>	<b>XEX</b> 1310 125	<b>CMCP</b> 1270 150
<b>Windsor</b>		<b>XEBG</b> 730 5000	<b>PUEBLA</b>	<b>CMCO</b> 680 1000
<b>CKLW</b> 1030 5000 C		<b>Ensenada</b>	<b>Puebla</b>	<b>CMGR</b> 1400 150
<b>CRCW</b> 600 1000 F		<b>XEG</b> 1270 500	<b>XETH</b> 1210 100	<b>CMGU</b> 1255 150
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<b>PRINCE EDWARD ISLAND</b>		<b>XEAO</b> 560 250	<b>XEZZ</b> 1370 100	<b>CMCY</b> 1100 500
<b>Charlottetown</b>		<b>Tijuana</b>	<b>SONORA</b>	<b>CMK</b> 725 3150
<b>CFGY</b> 630 1000 F		<b>XFC</b> 1270 50	<b>Nogales</b>	<b>CMOK</b> 1230 250
<b>CHCK</b> 1310 50		<b>XEFL</b> 1160 5000	<b>XEAF</b> 540 250	<b>CMOX</b> 1325 200
<b>Summerside</b>		<b>XEMO</b> 865 2500	<b>TAMAULIPAS</b>	<b>CMQ</b> 840 5000
<b>CHGS</b> 1450 50 F		<b>CAMPECHE</b>	<b>Nuevo Laredo</b>	<b>CMW</b> 930 1400
<b>QUEBEC</b>		<b>Cazaca</b>	<b>XEAM</b> 960 50	<b>CMX</b> 905 1000
<b>Chicoutimi</b>		<b>XEAJ</b> 1310 15	<b>XEFE</b> 920 250	<b>COA</b> 1175 500
<b>CRCS</b> 950 100 F		<b>Chihuahua</b>	<b>XENT</b> 910 60000	<b>Holguin</b>
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<b>Montmagny</b>		<b>XEFV</b> 1210 100	<b>Tampico</b>	<b>CMKM</b> 940 100
<b>VE9EK</b> 1185 10		<b>XEJ</b> 1020 1250	<b>XEFW</b> 1310 250	<b>Matanzas</b>
<b>Montreal</b>		<b>COAHUILA</b>	<b>XEMA</b> 1080 50	<b>CMGF</b> 971.5 100
<b>CFCE</b> 600 400 N		<b>Chihuahua</b>	<b>XES</b> 990 250	<b>CMGH</b> 1040 15
<b>CHLP</b> 1120 100		<b>XEFJ</b> 1440 250	<b>VERACRUZ</b>	<b>Moron</b>
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<b>CRCM</b> 910 5000 F		<b>Chihuahua</b>	<b>XFB</b> 1270 250	<b>Sagua la Grande</b>
<b>New Carlisle</b>		<b>XEFV</b> 1210 100	<b>Orizaba</b>	<b>CMHA</b> 1103 50
<b>CHNC</b> 1210 100 F		<b>XEJ</b> 1020 1250	<b>XFD</b> 1340 350	<b>San Spiritus</b>
<b>Quebec</b>		<b>VERACRUZ</b>	<b>Veracruz</b>	<b>CMHB</b> 1245 30
<b>CHRC</b> 580 100 F		<b>XETF</b> 1220 12	<b>XETU</b> 1160 250	<b>Santa Clara</b>
<b>CKCV</b> 1310 50 F		<b>YUCATAN</b>		<b>CMHI</b> 1037 150
<b>CRCK</b> 1050 1000 F		<b>Merida</b>		<b>Santiago</b>
<b>SASKATCHEWAN</b>		<b>XEFC</b> 1310 100		<b>CMKC</b> 1034 150
<b>Moose Jaw</b>		<b>XEZ</b> 630 500		<b>DOMINICAN REPUBLIC</b>
<b>CHAB</b> 1200 100 F		<b>WEST INDIES</b>		<b>San Pedro de Macoris</b>
<b>CJRM</b> 540 1000 F		<b>CUBA</b>		<b>HIH</b> 1395 15
<b>Prince Albert</b>		<b>Calbarion</b>		<b>Santo Domingo</b>
<b>CKBI</b> 1210 100 F		<b>CMHD</b> 950 250		<b>HIJ</b> 1195 15
<b>Regina</b>		<b>Camaguey</b>		<b>HIX</b> 1270 1000
<b>CHWC</b> 1010 500 F		<b>CMJG</b> 1382 150		<b>HIZ</b> 1300 10
<b>CKKC</b> 1010 500 F		<b>CMJE</b> 1170 50		<b>HAITI</b>
<b>Saskatoon</b>		<b>CMJF</b> 930 200		<b>Port-au-Prince</b>
<b>CFOC</b> 840 1000 F		<b>CMJG</b> 1050 50		<b>HHK</b> 920 1000
<b>Yorkton</b>				
<b>CJGX</b> 630 500 F				

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<b>CFCF</b> 600 400	Montreal, Que. Mt. Royal Hotel
<b>CFCH</b> 930 100	North Bay, Ont. Capitol Theatre Bldg.
<b>CFCN</b> 1830 10000	Calgary, Alta. Toronto Gen. Trust Bldg.
<b>CFCO</b> 1050 100	Chatham, Ont. Wm. Pitt Hotel
<b>CFCT</b> 1450 75	Victoria, B. C. 620 View St.
<b>CFCY</b> 630 1000	Charlottetown, P.E.I. 143 Great George St.
<b>CFJC</b> 880 100	Kamloops, B. C. Wilcox-Hall Bldg.
<b>CFLC</b> 930 100	Prescott, Ont. Hoy Bldg., 307 George St.
<b>CFNB</b> 550 500	Fredericton, N. B. York St.
<b>CFPL</b> 730 100	London, Ont. Richmond St.
<b>CFQC</b> 840 1000	Saskatoon, Sask. 216 First Ave., No.
<b>CFRB</b> 690 10000	Toronto, Ont. 37 Bloor St. W.
<b>CFRC</b> 1510 100	Kingston, Ont. Queens University
<b>CFRN</b> 1260 100	Edmonton, Alta. Brks Bldg.
<b>CHAB</b> 1200 100	Moose Jaw, Sask. Grant Hall Hotel
<b>CHCK</b> 1310 50	Charlottetown, P.E.I. 36 Upper Hillstboro St.
<b>CHGS</b> 1450 50	Summerside, P. E. I. 190 Water St.
<b>CHLP</b> 1120 100	Montreal, Que. Sun Life Bldg.
<b>CHML</b> 1010 50	Hamilton, Ont. 47 Main St. E.
<b>CHNC</b> 1210 100	New Carlisle, Que. Gaspeian Radio Brdstg. Co.
<b>CHNS</b> 930 1000	Halifax, N. S. Lord Nelson Hotel
<b>CHRC</b> 580 100	Quebec, Que. CHRC, Ltd., Victoria Hotel
<b>CHSJ</b> 1120 100	St. John, N. B. Admiral Beatty Hotel
<b>CHWC</b> 1010 500	Regina, Sask. Kitchener Hotel
<b>CHWK</b> 780 100	Chilliwack, B. C. Wellington Ave.
<b>CJAT</b> 910 250	Trail, B. C. Kootenay Brdstg. Co.
<b>CJCA</b> 730 500	Edmonton, Alta. 10122-100A St.
<b>CJCB</b> 1240 1000	Sydney, N. S. 318 Charlotte St.
<b>CJ CJ</b> 690 100	Calgary, Alta. New Albertan Bldg.
<b>CJCU</b> 1210 50	Aklavik, N. W. T. Dr. J. A. Urquhart, Dept. of Interior
<b>CJGX</b> 630 500	Yorkton, Sask. 188 Grain Exchange Bldg. (Winnipeg)
<b>CJIC</b> 890 100	S. Ste. Marie, Ont. Windsor Hotel
<b>CJKL</b> 1310 100	Kirkland Lake, Ont. O. J. Thorpe
<b>CJLS</b> 1310 100	Yarmouth, N. S. Laurie L. Smith, Grand Hotel
<b>CJOC</b> 1230 100	Lethbridge, Alta. Marquis Hotel
<b>CJOR</b> 600 500	Vancouver, B. C. G. C. Chandler, Hotel Grosvenor
<b>CJRC</b> 1390 100	Winnipeg, Man. Royal Alexandra Hotel
<b>CJRM</b> 540 1000	Moose Jaw, Sask. 311 Main St. No.
<b>CKAC</b> 730 5000	Montreal, Que. 980 St. Catherine St. W.
<b>CKBI</b> 1210 100	Prince Albert, Sask. Canada Bldg.
<b>CKCD</b> 1010 100	Vancouver, B. C. 142 Hastings St. W.
<b>CKCH</b> 1210 100	Hull, Que. Standish Hall Hotel
<b>CKCK</b> 1010 500	Regina, Sask. 1853 Hamilton St.
<b>CKCL</b> 580 100	Toronto, Ont. 444 University Ave.
<b>CKCO</b> 1010 100	Ottawa, Ont. 272 Somerset St. W.
<b>CKCR</b> 1510 100	Waterloo, Ont. 24 King St. So.
<b>CKCV</b> 1310 50	Quebec, Que. 254 Ave. Marguerite
<b>CKCW</b> 1370 100	Moncton, N. B. Moncton Brdstg. Co., Ltd.
<b>CKFC</b> 1410 50	Vancouver, B. C. Hemlock & 12th Ave.
<b>CKGB</b> 1420 100	Timmins, Ont. R. H. Thompson, Press Bldg.
<b>CKIC</b> 1010 50	Wolfville, N. S. Acadia University
<b>CKLW</b> 1030 5000	Windsor, Ont. Guaranty Trust Bldg.
<b>CKMC</b> 1210 50	Cobalt, Ont. R. L. MacAdam
<b>CKMO</b> 1410 100	Vancouver, B. C. 1604 Bekins Bldg.
<b>CKNC</b> 1420 100	Toronto, Ont. 805 Davenport Road
<b>CKOC</b> 1120 500	Hamilton, Ont. Wentworth Bldg.
<b>CKOV</b> 630 100	Kelowna, B. C. Okanagan Broadcasters, Ltd., Box 243
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<b>CKPR</b> 930 100	Fort William, Ont. Royal Edward Hotel
<b>CKSO</b> 780 1000	Sudbury, Ont. W. E. Mason, Grand Theatre Bldg.
<b>CKTB</b> 1200 100	St. Catharines, Ont. E. T. Sandell, Welland House
<b>CKUA</b> 580 500	Edmonton, Alta. University of Alberta.
<b>CKWX</b> 1010 100	Vancouver, B. C. Hotel Georgia
<b>CKX</b> 1120 100	Brandon, Man. Rosser Ave.
<b>CKY</b> 960 15000	Winnipeg, Man. Sherbrooke St.
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<b>CMBD</b> 1350 150	Havana, Cuba Luis Perez Garcia, Centre Gallege
<b>CMBG</b> 1150 225	Havana, Cuba John L. Stowers, Hospital No. 100
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<b>CMC</b> 835 500 Havana, Cuba Agulla y Dragones	<b>CMJO</b> 1010 50 Ciego de Avila, Cuba Jose M. Rey, C. Central & Maceo
<b>CMCA</b> 1230 150 Havana, Cuba J. M. Gonzales, Gallano No. 102	<b>CMJP</b> 1360 75 Moron, Cuba Cesar Canail, Callejas No. 28
<b>CMCB</b> 1060 150 Havana, Cuba Metropolitan Bldg.	<b>CMK</b> 725 3150 Havana, Cuba Hotel Plaza
<b>CMCD</b> 955 250 Havana, Cuba Calle G y 25, Vedado	<b>CMKC</b> 1034 150 Santiago, Cuba J. A. Saco, Alta 23
<b>CMCF</b> 610 250 Havana, Cuba Raoul Karman, P. O. Box 647	<b>CMKF</b> 1363 30 Holguin, Cuba Libertad esq. Arlas
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<b>CMCR</b> 1400 150 Havana, Cuba Milagros No. 35, Vibora	<b>COA</b> 1175 500 Havana, Cuba Juan Fernandez, Aguilar 126, Altos
<b>CMCU</b> 1255 150 Havana, Cuba San Francisco No. 13, Vibora	<b>CRCK</b> 1050 1000 Quebec, Que. Chateau Frontenac Hotel
<b>CMCW</b> 755 150 Havana, Cuba Gallano y San Lazaro Sts.	<b>CRCM</b> 910 5000 Montreal, Que. 1291 St. Catherine St. W.
<b>CMCX</b> 865 150 Havana, Cuba	<b>CRCO</b> 880 1000 Ottawa, Ont. Chateau Laurier Hotel
<b>CMCY</b> 1100 500 Havana, Cuba Manuel D. Aufran, Calle G 215, Vedado	<b>CRCS</b> 950 100 Chicoutimi, Que. 4 Rue Larouche
<b>CMGE</b> 1375 30 Cardenas, Cuba Genaro Sebatier, Cespedes No. 180	<b>CRCT</b> 840 5000 Toronto, Ont. 805 Davenport Road
<b>CMGF</b> 971.5 100 Matanzas, Cuba G. Betancourt No. 51	<b>CRCV</b> 1100 1000 Vancouver, B. C. C. N. R. Station Bldg.
<b>CMGH</b> 1040 15 Matanzas, Cuba B. Byrne No. 113	<b>CRCW</b> 600 1000 Windsor, Ont. Guaranty Trust Bldg.
<b>CMGI</b> 1094 30 Colon, Cuba Armando Linanza, Marti No. 35	<b>FQN</b> 609 250 St. Pierre, Miq.
<b>CMHA</b> 1103 50 Saguala Grande, Cuba Abelardo Menocal, Carrillo No. 1	<b>HHK</b> 920 1000 Port-au-Prince, Haiti Haitian Government
<b>CMHB</b> 1245 30 San Spiritus, Cuba Independencia No. 33	<b>HHH</b> 1395 15 San Pedro de M., D.R. Domingo Dominguez
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<b>CMHJ</b> 1125 40 Cienfuegos, Cuba Romonalde Ugalde, Hotel Bristol	<b>HIZ</b> 1300 10 Santo Domingo, D. R. Abbes and Garcla
<b>CMHK</b> 1225 50 Cruces, Cuba Heredia No. 61	<b>KABC</b> 1420 100 San Antonio, Texas Texas Theatre Bldg.
<b>CMHW</b> 910 100 Cienfuegos, Cuba Arguelles No. 200	<b>KABN</b> 1420 100 Aberdeen, S. Dak. Aberdeen Broadcast Co.
<b>CMJC</b> 1382 150 Camaguey, Cuba Feliciano Isaac, Cisneros y G. Gomez	<b>KADA</b> 1200 100 Ada, Okla. C. C. Morris
<b>CMJE</b> 1170 50 Camaguey, Cuba Manuel Fernandez, Hnos. Aguerre No. 2	<b>KALE</b> 1300 500 Portland, Ore. Kale, Inc., New Heathman Hotel
<b>CMJF</b> 930 200 Camaguey, Cuba John L. Stowers, Republica No. 88	<b>KARK</b> 850 250 Little Rock, Ark. N. S. L. Bldg.
<b>CMJG</b> 1050 50 Camaguey, Cuba Jose Antonio Lefran, Maceo No. 1	<b>KASA</b> 1210 100 Elk City, Okla. E. M. Woody, Casa Grande Hotel
<b>CMJH</b> 1150 50 Ciego de Avila, Cuba Luis Maraauri, Vista Hermosa	<b>KEPS</b> 1420 100 Portland, Ore. E. 12th & Hoyt Sts.
<b>CMJI</b> 1210 150 Ciego de Avila, Cuba Gilberto Gessa Lopez, Independencia 95	<b>KETM</b> 1200 100 Jonesboro, Ark. Jay P. Beard

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<b>KCMC</b> 1420 100 Texarkana, Ark. Box 865	<b>KFOV</b> 1250 1000 Long Beach, Calif. 220 E. Anaheim St.
<b>KCRC</b> 1370 100 Enid, Okla. Enid Radophone Co., Oxford Hotel	<b>KFPL</b> 1310 100 Dublin, Texas C. C. Baxter, Box 176
<b>KCRJ</b> 1310 100 Jerome, Ariz. Chas. C. Roblison, Drawer D.	<b>KFPM</b> 1310 15 Greenville, Texas New Furniture Co.
<b>KDB</b> 1500 100 Santa Barbara, Calif. 15-17 E. Haley St.	<b>KFPW</b> 1210 100 Fort Smith, Ark. Goldman Hotel
<b>KDFN</b> 1440 500 Casper, Wyo. Donald Lewis Hathaway	<b>KFPY</b> 1340 1000 Spokane, Wash. Symons Bldg.
<b>KDKA</b> 980 50000 Pittsburgh, Pa. Hotel Wm. Penn	<b>KFQD</b> 780 250 Anchorage, Alaska 411-4th Ave.
<b>KDLR</b> 1210 100 Devils Lake, N. D. KDLR, Inc., 1025 3rd Street	<b>KFRC</b> 610 1000 San Francisco, Calif. 1000 Van Ness Ave.
<b>KDYL</b> 1290 1000 Salt Lake City, Utah Ezra Thompson Bldg.	<b>KFRO</b> 1370 100 Longview, Texas Voice of Longview
<b>KECA</b> 1430 1000 Los Angeles, Calif. 1000 S. Hope St.	<b>KFRU</b> 630 500 Columbia, Mo. KFRU, Inc., 9th and Elm Sts.
<b>KELD</b> 1370 100 El Dorado, Ark. T. H. Barton	<b>KFSO</b> 600 1000 San Diego, Calif. U. S. Grant Hotel
<b>KELW</b> 780 500 Burbank, Calif. 3702 Magnolia Park Blvd.	<b>KFSG</b> 1120 1000 Los Angeles, Calif. 1100 Glendale Blvd.
<b>KERN</b> 1370 100 Bakersfield, Calif. Elk's Club	<b>KFUO</b> 550 500 St. Louis, Mo. 801 De Mun St.
<b>KEX</b> 1180 5000 Portland, Ore. Oregonian Bldg.	<b>KFVD</b> 1000 250 Los Angeles, Calif. E. L. Cord, 645 S. Mariposa
<b>KFAB</b> 770 5000 Lincoln, Neb. Cornhusker Hotel	<b>KFVS</b> 1210 100 Cape Girardeau, Mo. Oscar C. Hirsch, Box 275
<b>KFAC</b> 1300 1000 Los Angeles, Calif. E. L. Cord, 645 So. Mariposa	<b>KFWB</b> 950 1000 Hollywood, Calif. Warner Bros. Motion Pictures, Inc.
<b>KFBB</b> 1280 1000 Great Falls, Mont. Buttrey Broadcast., Inc.	<b>KFXD</b> 1200 100 Nampa, Idaho Frank E. Hurt, 1024 12th Ave. S.
<b>KFBI</b> 1050 5000 Abilene, Kans. Box 345	<b>KFXJ</b> 1200 100 Grand Jct., Colo. Hillcrest Manor
<b>KFBK</b> 1310 100 Sacramento, Calif. Sacramento Bee	<b>KFXM</b> 1210 100 San Bernardino, Calif. California Hotel
<b>KFDM</b> 560 500 Beaumont, Texas Beaumont Hotel, P. O. Box 2950	<b>KFXR</b> 1310 100 Oklahoma City, Okla. 541 Hightower Bldg.
<b>KFDY</b> 780 1000 Brookings, S. D. South Dakota State College	<b>KFYO</b> 1310 100 Lubbock, Texas Kirksey Bros., Hotel Lubbock
<b>KFEL</b> 920 500 Denver, Colo. Albany Hotel	<b>KFYR</b> 550 1000 Bismarck, N. D. 320 Broadway
<b>KFEQ</b> 680 2500 St. Joseph, Mo. Schneider Bldg.	<b>KGA</b> 900 1000 Spokane, Wash. 1023 W. Riverside Ave.
<b>KFGQ</b> 1370 100 Boone, Iowa 924 W. 2nd St.	<b>KGAR</b> 1370 100 Tucson, Ariz. 142 S. 6th Ave.
<b>KFH</b> 1300 1000 Wichita, Kans. 124 1/2 S. Market St.	<b>KGB</b> 1330 1000 San Diego, Calif. 1012-1st St.
<b>KFI</b> 640 50000 Los Angeles, Calif. 1000 S. Hope St.	<b>KGBU</b> 900 500 Ketchikan, Alaska Mile 5, Wards Cove Rd.
<b>KFIO</b> 1120 100 Spokane, Wash. 213 Riverside Ave.	<b>KGBX</b> 1230 500 Springfield, Mo. KGBX, Inc., C. of C. Bldg.
<b>KFIZ</b> 1420 100 Fond du Lac, Wis. 18 W. 1st St.	<b>KGBZ</b> 930 1000 York, Neb. KGBZ Broadcasting Co., 715 Grant Ave.
<b>KFJB</b> 1200 100 Marshalltown, Iowa 1603 W. Main St.	<b>KGCA</b> 1270 100 Decorah, Iowa Charles W. Greenley, 201 Water St.
<b>KFJI</b> 1210 100 Klamath Falls, Ore. KFJI Broadcasters, Inc., Willard Hotel	<b>KGCU</b> 1240 250 Mandan, N. D. 404 W. Main St.
<b>KFJM</b> 1370 100 Grand Forks, N. D. University of North Dakota	<b>KGCX</b> 1310 100 Wolf Point, Mont. E. E. Krebsbach.
<b>KFJR</b> 1300 500 Portland, Ore. 622 Lumbermen's Bldg.	<b>KGDE</b> 1200 100 Fergus Falls, Minn. C. L. Jaren
<b>KFJZ</b> 1370 100 Fort Worth, Texas Texas Hotel	<b>KGDM</b> 1100 1000 Stockton, Calif. E. F. Pepper, 42 S. Calif. St.
<b>KFKA</b> 880 500 Greeley, Colo. Box 735	<b>KGDY</b> 1340 250 Huron, S. D. Voice of S. D., Inc., 347 Dakota Ave.
<b>KFKU</b> 1220 1000 Lawrence, Kans. University of Kansas	<b>KGEK</b> 1200 100 Sterling, Colo. Elmer G. Beehler, 109 W. 2nd St.
<b>KFNF</b> 890 500 Shenandoah, Iowa 407 Sycamore St.	<b>KGER</b> 1360 1000 Long Beach, Calif. 435 Pine Ave.
<b>KFOR</b> 1210 100 Lincoln, Neb. Howard Shuman, Hotel Lincoln	<b>KGEZ</b> 1310 100 Kallspeil, Mont. Donald C. Treloar, Box 1

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<b>KGFF 1420 100 Shawnee, Okla.</b> 9th & Bell Sts.
<b>KGFG 1370 100 Oklahoma City, Okla.</b> Okla. Broadcasting Co., 1113 N. Broadway
<b>KGFI 1500 100 Corpus Christi, Texas</b> Eagle Broadcasting Co., Inc., P. O. Box 1508
<b>KGFI 1200 100 Los Angeles, Calif.</b> Ben S. McGlashan, 1417 S. Figueroa
<b>KGFK 1500 100 Moorhead, Minn.</b> 722 Center Ave.
<b>KGFL 1370 100 Roswell, N. M.</b> KGFL, Inc., 507 N. Main St.
<b>KGFW 1310 100 Kearney, Neb.</b> Midway Hotel
<b>KGFX 630 200 Pierre, S. D.</b> Dana McNeil, 510 Summit Ave.
<b>KGGC 1420 100 San Francisco, Calif.</b> 230 Eddy St.
<b>KGGF 1010 1000 Coffeyville, Kans.</b> Coffeyville Journal Bldg.
<b>KGGM 1230 250 Albuquerque, N. M.</b> Franciscan Hotel
<b>KGHF 1320 500 Pueblo, Colo.</b> C. F. Ritchie, 113 Broadway
<b>KGHB 1200 100 Little Rock, Ark.</b> Arkansas Brdstrg. Co., Marlon Hotel
<b>KGHL 780 1000 Billings, Mont.</b> 5th & N. Broadway
<b>KGIR 1360 1000 Butte, Mont.</b> KGIR, Inc., 121 W. Broadway
<b>KGIW 1420 100 Alamosa, Colo.</b> Leonard E. Wilson, 326 N. Commercial
<b>KGIX 1420 100 Las Vegas, Nev.</b> J. M. Heaton, Box 656
<b>KGKB 1500 100 Tyler, Texas</b> 115 S. College
<b>KGKL 1370 100 San Angelo, Texas</b> KGKL, Inc., St. Angelus Hotel
<b>KGKO 570 500 Wichita Falls, Texas</b> 9th St. & Indiana Ave.
<b>KGKY 1500 100 Scottsbluff, Neb.</b> Hilliard Co., Inc., 1517 1/2 Broadway
<b>KGMB 1320 250 Honolulu, T. H.</b> Honolulu Broadcasting Co., Box 2663
<b>KGNF 1430 1000 North Platte, Neb.</b> Great Plains Broadcasting Co., W. 12th St.
<b>KGNO 1340 250 Dodge City, Kans.</b> First Natl. Bank Bldg.
<b>KGQ 790 7500 San Francisco, Calif.</b> 111 Sutter St.
<b>KGRS 1410 1000 Amarillo, Texas</b> E. B. Gish, Bellaire Park
<b>KGU 750 2500 Honolulu, T. H.</b> Kapiolani at South St.
<b>KGVO 1260 1000 Missoula, Mont.</b> Mosbys, Inc., 240 N. Higgins
<b>KGW 620 1000 Portland, Ore.</b> 325 Adler St.
<b>KGY 1210 100 Olympia, Wash.</b> KGY, Inc., 11th and Capitol Way
<b>KHJ 900 1000 Los Angeles, Calif.</b> 7th at Bixel
<b>KHQ 590 1000 Spokane, Wash.</b> Sprague Ave. & Post St.
<b>KHSL 950 250 Chico, Calif.</b> Golden Empire Brdstrg. Co.
<b>KICA 1370 100 Clovis, N. M.</b> Southwest Broadcasting Co.
<b>KID 1320 250 Idaho Falls, Idaho</b> Park Ave. & Broadway
<b>KIDO 1350 1000 Boise, Idaho</b> Hotel Boise

<b>KIDW 1420 100 Lamar, Colo.</b> Lamar Broadcasting Co., Box 688
<b>KIEM 1210 100 Eureka, Calif.</b> Redwood Bdcstg. Co., Vance Hotel
<b>KIEV 850 250 Glendale, Calif.</b> Cannon System, Ltd., Glendale Hotel
<b>KIT 1310 100 Yakima, Wash.</b> 109 1/2 E. Yakima Ave.
<b>KIUJ 1310 100 Santa Fe, N. Mex.</b> J. H. Speck
<b>KJBS 1070 500 San Francisco, Calif.</b> 1380 Bush St.
<b>KJR 970 5000 Seattle, Wash.</b> Skinner Bldg.
<b>KLCN 1290 100 Blytheville, Ark.</b> C. L. Lintzenleh, Main and Division St.
<b>KLO 1400 500 Ogden, Utah</b> 405—25th St.
<b>KLPM 1240 250 Minot, N. D.</b> John B. Cooley, Box 707
<b>KLRA 1390 1000 Little Rock, Ark.</b> Arkansas Broadcasting Co., Box 550
<b>KLS 1440 250 Oakland, Calif.</b> Warner Bros., 2201 Telegraph Ave.
<b>KLUF 1370 100 Galveston, Texas</b> Geo. R. Clough, 3327 Ave. P.
<b>KLX 880 1000 Oakland, Calif.</b> Tribune Tower
<b>KLZ 560 1000 Denver, Colo.</b> Shirley-Savoy Hotel
<b>KMA 930 1000 Shanandoah, Iowa</b> Earl E. May Seed & Nursery Co.
<b>KMAC 1370 100 San Antonio, Texas</b> W. W. McAllister, Blue Bonnet Hotel
<b>KMBC 950 1000 Kansas City, Mo.</b> Pickwick Hotel
<b>KMED 1310 100 Medford, Ore.</b> Mrs. W. J. Virgin, Sparta Bldg.
<b>KMJ 580 500 Fresno, Calif.</b> Van Ness & Calaveras Sts.
<b>KMLB 1200 100 Monroe, La.</b> Francis Hotel
<b>KMMJ 740 1000 Clay Center, Neb.</b> The M. M. Johnson Co.
<b>KMO 1330 250 Tacoma, Wash.</b> KMO, Inc., Hotel Winthrop
<b>KMOX 1090 50000 St. Louis, Mo.</b> 401 S. 12th St.
<b>KMPC 710 500 Beverly Hills, Calif.</b> 9631 Wilshire Blvd.
<b>KMTR 570 1000 Hollywood, Calif.</b> KMTR Radio Corp., 915 N. Formosa Ave.
<b>KNOW 1500 100 Austin, Texas</b> Driskill Hotel
<b>KNX 1050 50000 Hollywood, Calif.</b> West Broadcast Co., Inc., 1558 N. Vine St.
<b>KOA 830 50000 Denver, Colo.</b> General Electric Co., 1370 Krameria St.
<b>KOAC 550 1000 Corvallis, Ore.</b> Oregon State Agricultural College
<b>KOB 1180 10000 Albuquerque, N. M.</b> Albuquerque Journal, Box 667
<b>KOH 1380 500 Reno, Nev.</b> 440 N. Virginia St.
<b>KOIL 1260 1000 Council Bluffs, Iowa</b> Mona Motor Oil Co.
<b>KOIN 940 1000 Portland, Ore.</b> KOIN, Inc., New Heathman Hotel
<b>KOL 1270 1000 Seattle, Wash.</b> Northern Life Tower
<b>KOMA 1480 5000 Oklahoma City, Okla.</b> Biltmore Hotel

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<b>KONO 1370 100</b> San Antonio, Texas Mission Broadcast. Co., St. Anthony Hotel	<b>KTAB 560 1000</b> San Francisco, Calif. 5th & Mission Sts.
<b>KOOS 1200 100</b> Marshfield, Ore. H. H. Hanseth, Hall Bldg.	<b>KTAR 620 1000</b> Phoenix, Ariz. 116 N. Central Ave.
<b>KORE 1420 100</b> Eugene, Ore. 733 Willamette St.	<b>KTAT 1240 1800</b> Fort Worth, Texas Ft. Worth Natl. Bank Bldg.
<b>KOTN 1500 100</b> Pine Bluff, Ark. William H. Chaplin, Hotel Pines	<b>KTBS 1450 1000</b> Shreveport, La. Box 1642
<b>KOY 1390 500</b> Phoenix, Ariz. 621 N. Central Ave.	<b>KTFI 1240 1000</b> Twin Falls, Idaho Radio Broadcasting Corp., Box 521
<b>KPAC 1260 500</b> Port Arthur, Texas Port Arthur College	<b>KTHS 1060 10000</b> Hot Springs, Ark. Chamber of Commerce, Box 886
<b>KPCB 710 100</b> Seattle, Wash. Tower Bldg.	<b>KTM 780 500</b> Los Angeles, Calif. 214 S. Vermont St.
<b>KPJM 1500 100</b> Prescott, Ariz. Scott & Sturm, P. O. Box 782	<b>KTRB 740 250</b> Modesto, Calif. McTammany & Bates
<b>KPO 680 60000</b> San Francisco, Calif. 111 Sutter St.	<b>KTRH 1330 1800</b> Houston, Texas KTRH Broadcasting Co., Rice Hotel
<b>KPOF 880 500</b> Denver, Colo. Pillar Of Fire, 1845 Champa St.	<b>KTSA 550 1000</b> San Antonio, Texas Southwest Broadcasting Co., Plaza Hotel
<b>KPPC 1210 50</b> Pasadena, Calif. 685 E. Colorado St.	<b>KTSM 1310 100</b> El Paso, Texas P. O. Box 1976
<b>KPQ 1500 100</b> Wenatche, Wash. KPQ Bldg.	<b>KTUL 1400 500</b> Tulsa, Okla. National Bank of Tulsa Bldg.
<b>KPRC 920 1000</b> Houston, Texas 2204 Shell Bldg.	<b>KTW 1220 1800</b> Seattle, Wash. 77th Ave. & Spring St.
<b>KQV 1380 500</b> Pittsburgh, Pa. KQV Broadcasting Co., Investment Bldg.	<b>KUJ 1370 100</b> Walla Walla, Wash. KUJ, Inc., Marcus Whitman Hotel
<b>KQW 1010 1000</b> San Jose, Calif. 87 E. San Antonio St.	<b>KUMA 1420 100</b> Yuma, Ariz. Dr. A. H. Schermann, Box 267
<b>KRE 1370 100</b> Berkeley, Calif. 2345 Channing Way	<b>KUOA 1260 1000</b> Fayetteville, Ark. KUOA, Inc., Washington Hotel
<b>KREG 1500 100</b> Santa Ana, Calif. 3rd & Bycamore Sts.	<b>KUSD 890 500</b> Vermillion, S. D. University of South Dakota
<b>KRGV 1260 500</b> Westaco, Texas KRGV Inc.	<b>KVI 570 1000</b> Tacoma, Wash. W. R. Rust Bldg.
<b>KRKD 1120 1000</b> Los Angeles, Calif. 816 Spring Arcade Bldg.	<b>KVL 1370 100</b> Seattle, Wash. KVL, Inc., 5th and Virginia St.
<b>KRKO 1370 50</b> Everett, Wash. Lee Mudgett, 2814 Rucker Ave.	<b>KVOA 1260 500</b> Tucson, Ariz. Cons. Natl. Bank Bldg.
<b>KRLC 1420 100</b> Lewiston, Idaho H. E. Studebaker	<b>KVOD 820 500</b> Denver, Colo. Continental IOM Bldg.
<b>KRLD 1040 10000</b> Dallas, Texas KRLD Radio Corp., Adolphus Hotel	<b>KVOO 1140 25000</b> Tulsa, Okla. Wright Bldg.
<b>KRMD 1310 100</b> Shreveport, La. Jefferson Hotel	<b>KVOR 1270 1000</b> Colorado Spg., Colo. Mining Exchange Bldg.
<b>KRNT 1430 250</b> Cedar Rapids, Iowa Hotel Montrose	<b>KVOS 1200 100</b> Bellingham, Wash. 116 W. Magnolia St.
<b>KROW 930 1000</b> Oakland, Calif. 1803 Franklin St.	<b>KWEA 1210 100</b> Shreveport, La. Spring & Fannin Sts.
<b>KRSC 1120 100</b> Seattle, Wash. Radio Sales Corp., Washington Athletic Club	<b>KWFF 1210 100</b> Hilo, Hawaii Hilo Broadcasting Co., Ltd.
<b>KSAC 580 500</b> Manhattan, Kans. State College of Agriculture	<b>KWG 1200 100</b> Stockton, Calif. Medico-Dental Bldg.
<b>KSCJ 1330 1000</b> Sioux City, Iowa Perkins Bros. Co., 415 Douglas St.	<b>KWJJ 1040 500</b> Portland, Ore. 622 S. W. Salmon St.
<b>KSD 550 1000</b> St. Louis, Mo. 12th & Olive Sts.	<b>KWK 1350 1000</b> St. Louis, Mo. Thomas Patrick, Inc., Hotel Chase
<b>KSEI 900 250</b> Pocatello, Idaho Radio Service Corp., 141 S. 6th Ave.	<b>KWKC 1370 100</b> Kansas City, Mo. 39th & Main Sts.
<b>KSL 1130 60000</b> Salt Lake City, Utah Vermont Bldg.	<b>KWKH 1100 10000</b> Shreveport, La. Spring & Fannin Sts.
<b>KSLM 1370 100</b> Salem, Ore. Oregon Radio, Inc.	<b>KWLC 1270 100</b> Decorah, Iowa Luther College
<b>KSO 1320 500</b> Des Moines, Iowa Des Moines Register & Tribune	<b>KWSC 1220 1000</b> Pullman, Wash. State College of Washington
<b>KSOO 1110 2500</b> Sioux Falls, S. D. Sioux Falls Brdest. Assn., Carpenter Hotel	<b>KWTN 1210 100</b> Watertown, S. D. Citizens Bank Bldg.
<b>KSTP 1460 10000</b> St. Paul, Minn. St. Paul Hotel	<b>KWTO 560 1000</b> Springfield, Mo. KGBX Inc.



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<b>KXA 760 250</b> Seattle, Wash. American Radio Tel. Co., 218 Bigelow Bldg.	<b>WAU 640 500</b> Columbus, Ohio Desbrier-Wallick Hotel
<b>KXL 1420 100</b> Portland, Ore. KXL Broadcasters, Multnomah Hotel	<b>WALA 1380 500</b> Mobile, Ala. Battle House
<b>KXO 1500 100</b> El Centro, Calif. F. M. Bowles, Box 140	<b>WALR 1210 100</b> Zanesville, Ohio First Trust & Savs. Bank Bldg.
<b>KXRO 1310 100</b> Aberdeen, Wash. KXRO, Inc., Hotel Morek.	<b>WAML 1310 100</b> Laurel, Miss. Southland Radio Corp., Box 26
<b>KXYZ 1440 500</b> Houston, Texas Fannin & Rusk Sts.	<b>WAPI 1140 5000</b> Birmingham, Ala. Protective Life Bldg.
<b>KYA 1230 1000</b> San Francisco, Calif. 988 Market St.	<b>WARD 1400 500</b> Brooklyn, N. Y. 427 Flatbush Ave., Ext.
<b>KYW 1020 10000</b> Philadelphia, Pa.	<b>WASH 1270 500</b> Grand Rapids, Mich. Grand Rapids Natl. Bank Bldg.
<b>NAA 690 1000</b> Arlington, Va. United States Navy	<b>WATR 1190 100</b> Waterbury, Conn. WATR Co. Inc. 47 Grand St.
<b>RDN 680 500</b> San Salvador, E. S. Republic of El Salvador	<b>WAVE 940 1000</b> Louisville, Ky. WAVE, Inc., 1525 Brown Hotel
<b>TGW 565 10000</b> Guatemala, Gua. Gobierno de Guatemala	<b>WAWZ 1350 250</b> Zarephath, N. J. Pillar of Fire.
<b>TGX 1400 150</b> Guatemala City	<b>WAZL 1420 100</b> Hazleton, Pa. Hazleton Broadcasting Service, Inc.
<b>TICR 912 75</b> San Jose, C. R. Government of Costa Rica	<b>WBAA 890 1000</b> West Lafayette, Ind. Purdue University
<b>TIFB 714 30</b> San Jose, C. R.	<b>WBAL 1060 10000</b> Baltimore, Md. Lexington Bldg., Amer. Radio News Corp.
<b>TIGA 1014 30</b> Cartago, C. R.	<b>WBAP 800 50000</b> Fort Worth, Texas Blackstone Hotel
<b>TIGP 800 75</b> San Jose, C. R. Gonzalo Pinto H. Apt. 225	<b>WBAX 1210 100</b> Wilkes-Barre, Pa. John H. Stenger, Jr., 70 S. Main St.
<b>TIRCA 1100 500</b> San Jose, C. R. Perry Girton, Apt. 225	<b>WBBC 1400 500</b> Brooklyn, N. Y. 552-54 Atlantic Ave.
<b>TISO 550 250</b> San Jose, C. R. P. F. Saborio, Apt. 1354	<b>WBBL 1210 100</b> Richmond, Va. 1627 Monument Ave.
<b>TIVL 835 30</b> San Jose, C. R.	<b>WBMM 770 25000</b> Chicago, Ill. WBMM Broadcasting Corp., Wrigley Bldg.
<b>VAS 685 2000</b> Glace Bay, N. S. Canadian Marconi Co., Ltd.	<b>WBRR 1300 1000</b> Brooklyn, N. Y. 124 Columbia Heights
<b>VESEK 1185 10</b> Montmagny, Que. J. A. Marquis, P. O. Box 52	<b>WBBZ 1200 100</b> Ponca City, Okla. C. L. Carrell, 407 W. South Ave.
<b>VOAC 1300 40</b> St. John's, Nfld.	<b>WBCM 1410 500</b> Bay City, Mich. James E. Davidson, Hotel Wenonah
<b>VOAS 940 100</b> St. John's N. F. Ayre & Sons, Ltd., Water St.	<b>WBEN 900 1000</b> Buffalo, N. Y. WBEN, Inc., Hotel Statler
<b>VOGY 840 400</b> St. John's, N. F. Newfoundland Hotel	<b>WBEO 1310 100</b> Marquette, Mich. 146 W. Washington St.
<b>VONF 950 5000</b> St. John's N. F. Dominion Broadcasting Co., Ltd., Box 185	<b>WBIG 1440 500</b> Greensboro, N. C. Box 408
<b>VOWR 681 500</b> St. John's, N. F. Wesley United Church, Box 157	<b>WBNO 1200 100</b> New Orleans, La. Hotel Marbergo
<b>WAAB 1410 500</b> Boston, Mass. 21 Brookline Ave.	<b>WBNS 1430 500</b> Columbus, O. 33 N. High St.
<b>WAAF 920 500</b> Chicago, Ill. 836 Exchange Ave.	<b>WBNX 1350 250</b> New York, N. Y. 260 E. 161st St.
<b>WAAT 940 500</b> Jersey City, N. J. Bremer Broadcasting Corp., 50 Journal Sq	<b>WBOQ 860 50000</b> New York, N. Y. Atlantic Broadcasting Corp.
<b>WAAW 660 500</b> Omaha, Neb. Omaha Grain Exchange	<b>WBOW 1310 100</b> Terre Haute, Ind. Banks of Wabash, Inc., 19 Beach Block
<b>WABC 860 50000</b> New York, N. Y. 485 Madison Ave.	<b>WBRB 1210 100</b> Red Bank, N. J. 63 Broad St.
<b>WABI 1200 100</b> Bangor, Maine First Universalist Society Park St.	<b>WBRC 930 1000</b> Birmingham, Ala. Bankhead Hotel
<b>WABY 1370 100</b> Albany, N. Y. Colonial Display House	<b>WBRE 1310 100</b> Wilkes-Barre, Pa. Louis G. Baltimore, 16 N. Main
<b>WACO 1420 100</b> Waco, Texas Amicable Bldg.	<b>WBSO 920 500</b> Babson Park, Mass. Drawer B
<b>WADC 1320 1000</b> Akron, Ohio Allen T. Simmons, P. O. Box 29	<b>WBT 1080 50000</b> Charlotte, N. C. Station WBT, Inc., Wilder Bldg.
<b>WAGF 1370 100</b> Dothan, Ala. Houston Hotel	<b>WBTM 1370 100</b> Danville, Va. Miller Bldg.

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<b>WBZA 990 1000</b> Springfield, Mass. Hotel Kimball	<b>WBDO 580 1000</b> Orlando, Fla. 555 N. Orange Ave.
<b>WCAC 600 500</b> Storrs, Conn. Connecticut State College	<b>WDEL 1120 250</b> Wilmington, Del. WDEL, Inc., 10th and King Sts.
<b>WCAD 1220 500</b> Canton, N. Y. St. Lawrence University	<b>WDEV 550 500</b> Waterbury, Vt. Harry C. Whitehill, Stowe St.
<b>WCAE 1220 1000</b> Pittsburgh, Pa. 6th Ave. & Smithfield St.	<b>WDGY 1180 1000</b> Minneapolis, Minn. Dr. Geo. W. Young, 909 W. Broadway
<b>WCAL 1250 1000</b> Northfield, Minn. St. Olaf College	<b>WDNC 1500 100</b> Durham, N. C. Washington Duke Hotel
<b>WCAM 1280 500</b> Camden, N. J. City of Camden, City Hall	<b>WDOO 1280 1000</b> Chattanooga, Tenn. WDOO Broadcasting Corp., Hotel Patten
<b>WCAO 600 500</b> Baltimore, Md. 811 W. Lanvale St.	<b>WDRC 1330 1000</b> Hartford, Conn. WDRC, Inc., Corning Bldg., 11 Asylum St.
<b>WCAP 1280 500</b> Asbury Park, N. J. Convention Hall	<b>WDSU 1250 1000</b> New Orleans, La. WDSU Inc., Hotel Monteleone
<b>WCAT 1200 100</b> Rapid City, S. D. South Dakota State School of Mines	<b>WDZ 1870 100</b> Tuscola, Ill. James L. Bush, Star Store Bldg.
<b>WCAU 1170 50000</b> Philadelphia, Pa. WCAU Broadcasting Co., 1622 Chestnut	<b>WEAF 660 50000</b> New York, N. Y. 30 Rockefeller Plaza
<b>WCAX 1200 100</b> Burlington, Vt. 203 College St.	<b>WEAN 780 500</b> Providence, R. I. New Crown Hotel
<b>WCAZ 1070 100</b> Carthage, Ill. 97 1/2 Adams St.	<b>WEBC 1290 1000</b> Superior, Wis. Spaulding Hotel, Duluth, Minn.
<b>WCBA 1440 500</b> Allentown, Pa. B. Bryan Musselman, 39-41 10th St.	<b>WEBQ 1210 100</b> Harrisburg, Ill. 100 E. Poplar St.
<b>WCBD 1080 5000</b> Waukegan, Ill. 75 E. Wacker Drive, Chicago	<b>WEBR 1310 100</b> Buffalo, N. Y. Howell Broadcasting Co., Inc., 735 Main
<b>WCBM 1370 100</b> Baltimore, Md. Keith Theatre Bldg.	<b>WEDC 1210 100</b> Chicago, Ill. Emil Denemark, 3860 Ogden Ave.
<b>WCBS 1210 100</b> Springfield, Ill. WCBS, Inc., 208 1/2 S. 5th.	<b>WEED 1420 100</b> Rocky Mount, N. C. Wm. Avera Wynne, Box 221
<b>WCCO 810 50000</b> Minneapolis, Minn. Nicollet Hotel	<b>WEEL 590 1000</b> Boston, Mass. 182 Tremont St.
<b>WCFL 970 1500</b> Chicago, Ill. 666 Lake Shore Drive	<b>WEEO 830 1000</b> Reading, Pa. Berks Broadcasting Co., 533 Penn.
<b>WCHS 580 500</b> Charleston, W. Va. WOBV, Inc., Ruffner Hotel	<b>WEHC 1420 100</b> Charlottesville, Va. 7th & Main Sts.
<b>WCKY 1490 5000</b> Covington, Ky. 6th & Madison Sts.	<b>WEHS 1420 100</b> Cicero, Ill. WEHS, Inc., 6138 W. Cermak Rd.
<b>WCLO 1200 100</b> Janesville, Wis. 200 E. Milwaukee St.	<b>WELL 1420 50</b> Battle Creek, Mich. Enquirer News, 38 W. State St.
<b>WCLS 1310 100</b> Joliet, Ill. WCLS, Inc., 301 E. Jefferson St.	<b>WENR 870 50000</b> Chicago, Ill. 222 N. Bank Drive
<b>WCNW 1500 100</b> Brooklyn, N. Y. Arthur Fiske, 1525 Pitkin Ave.	<b>WESG 1090 1000</b> Elmira, N. Y. Mark Twain Hotel
<b>WCOA 1340 500</b> Pensacola, Fla. San Carlos Hotel	<b>WEVD 1300 1000</b> New York, N. Y. Jewish Daily Forward, Hotel Claridge
<b>WCOC 880 500</b> Meridian, Miss. Box 603	<b>WEW 760 1000</b> St. Louis, Mo. St. Louis University, 221 N. Grand Blvd.
<b>WCOL 1210 100</b> Columbus, Ohio WCOL Inc., 30 N. High St.	<b>WEXL 1310 50</b> Royal Oak, Mich. 212 W. 6th St.
<b>WCRW 1210 100</b> Chicago, Ill. Clinton R. White, 2756 Pine Grove Ave.	<b>WFAA 800 50000</b> Dallas, Texas Baker Hotel
<b>WCSC 1360 500</b> Charleston, S. C. Francis Marion Hotel	<b>WFAB 1300 1000</b> New York, N. Y. Fifth Avenue Broadcasting Corp.
<b>WCSH 940 1000</b> Portland, Me. 579 Congress St.	<b>WFAM 1200 100</b> South Bend, Ind. South Bend Tribune, 225 W. Colfax Ave.
<b>WDAE 1220 1000</b> Tampa, Fla. Tampa Times Co., Tampa Terrace	<b>WFAS 1210 100</b> White Plains, N. Y. Hotel Roger Smith
<b>WDAF 610 1000</b> Kansas City, Mo. 1729 Grand Ave.	<b>WFBC 1300 1000</b> Greenville, S. C. Imperial Hotel
<b>WDAG 1410 1000</b> Amarillo, Texas Box 306	<b>WFBE 1200 100</b> Cincinnati, Ohio WFBE, Inc., Hotel Clinton
<b>WDAH 1310 100</b> El Paso, Texas Box 1976	<b>WFBG 1310 100</b> Altoona, Pa. Gable Broadcasting Co. 12th Av. & 13th St.
<b>WDAS 1370 100</b> Philadelphia, Pa. WDAS Brdcastg. Co., Inc., Broadwood Hotel	<b>WFBL 1360 1000</b> Syracuse, N. Y. Onondaga Hotel
<b>WDAY 940 1000</b> Fargo, N. D. WDAY, Inc., Black Bldg., 118 Broadway	<b>WFBM 1230 1000</b> Indianapolis, Ind. 48 Monument Circle

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	<b>WFBR</b> 1270	500	Baltimore, Md.
			7 St. Paul St.
	<b>WFDF</b> 1310	100	Flint, Mich.
			Union Industrial Bldg.
	<b>WFEA</b> 1340	500	Manchester, N. H.
			Carpenter Hotel
	<b>WFIL</b> 560	1000	Philadelphia, Pa.
			WFIL Broadcasting Co., 801 Market
	<b>WFLA</b> 620	1000	Clearwater, Fla.
			Box 119
	<b>WGAL</b> 1500	100	Lancaster, Pa.
			WGAL, Inc., 8 W. King St.
	<b>WGAR</b> 1450	500	Cleveland, Ohio
			WGAR Broadcasting Co., Hotel Statler
	<b>WGBB</b> 1210	100	Freeport, N. Y.
			H. H. Carman, 64 S. Grove St.
	<b>WGFB</b> 630	500	Evansville, Ind.
			519 Vine St.
	<b>WGBI</b> 880	500	Scranton, Pa.
			116 N. Washington Ave.
	<b>WGCM</b> 1210	100	Gulfport, Miss.
			Great Southern Hotel
	<b>WGES</b> 1360	500	Chicago, Ill.
			128 N. Crawford Ave.
	<b>WGH</b> 1310	100	Newport News, Va.
			2813 Washington Ave.
	<b>WGL</b> 1370	100	Fort Wayne, Ind.
			F. C. Zieg, 213 W. Main St.
	<b>WGN</b> 720	50000	Chicago, Ill.
			WGN, Inc., Tribune Tower
	<b>WGNV</b> 1210	100	Chester, N. Y.
			Peter Goelet (Orange County)
	<b>WGPC</b> 1420	100	Albany, Ga.
			Rylander Theatre Bldg.
	<b>WGR</b> 550	1000	Buffalo, N. Y.
			Rand Bldg.
	<b>WGST</b> 890	500	Atlanta, Ga.
			Ansel Hotel
	<b>WGY</b> 790	50000	Schenectady, N. Y.
			1 River Road
	<b>WHA</b> 940	2500	Madison, Wis.
			University of Wisconsin
	<b>WHAM</b> 1150	50000	Rochester, N. Y.
			100 Carlson Road
	<b>WHAS</b> 820	50000	Louisville, Ky.
			300 W. Liberty St.
	<b>WHAT</b> 1310	100	Philadelphia, Pa.
			Public Ledger Bldg.
	<b>WHAZ</b> 1300	500	Troy, N. Y.
			8th St.
	<b>WHB</b> 860	1000	Kansas City, Mo.
			WHB Broadcasting Co., Scarritt Bldg.
	<b>WHBC</b> 1200	100	Canton, Ohio
			Edw. P. Graham, 319 Tusco St., W.
	<b>WHBD</b> 1370	100	Mount Orab, Ohio
			F. P. Moler
	<b>WHBF</b> 1210	100	Rock Island, Ill.
			Hotel Harms
	<b>WHBI</b> 1250	1000	Newark, N. J.
			100 Shipman St.
	<b>WHBL</b> 1410	500	Sheboygan, Wis.
			Press Publishing Co., Press Bldg.
	<b>WHBQ</b> 1370	100	Memphis, Tenn.
			Brdestg. Sta. WNBQ, Inc., Hotel Claridge
	<b>WHBU</b> 1210	100	Anderson, Ind.
			Anderson Broadcasting Corp., Box 816
	<b>WHBY</b> 1200	100	Green Bay, Wis.
			WHBY, Inc., Bellin Bldg.
	<b>WHDF</b> 1370	100	Calumet, Mich.
			Box 643
	<b>WHDH</b> 830	1000	Boston, Mass.
			Matheson Radio Co., 62 Boylston

	<b>WHDL</b> 1420	100	Olean, N. Y.
			Exchange Natl. Bank Bldg.
	<b>WHEB</b> 740	250	Portsmouth, N. H.
			Box 522, 39 Congress St.
	<b>WHEC</b> 1430	500	Rochester, N. Y.
			WHEC, Inc., 40 Franklin St.
	<b>WHEF</b> 1500	100	Kosciusko, Miss.
			417 W. Adams St.
	<b>WHFC</b> 1420	100	Cicero, Ill.
			WHFC, Inc., 6138 W. Cermak Road
	<b>WHIO</b> 1260	1000	Dayton, Ohio
			39 S. Ludlow St.
	<b>WHIS</b> 1410	250	Bluefield, W. Va.
			Bland St.
	<b>WHJB</b> 620	250	Greensburg, Pa.
			Penn-Albert Hotel, 128 Pa. Ave.
	<b>WHK</b> 1390	1000	Cleveland, Ohio
			1311 Terminal Tower
	<b>WHN</b> 1010	1000	New York, N. Y.
			1540 Broadway
	<b>WHO</b> 1000	50000	Des Moines, Iowa
			Central Brdestg. Co., 914 Walnut St.
	<b>WHOM</b> 1450	250	Jersey City, N. J.
			2870 Boulevard
	<b>WHP</b> 1430	500	Harrisburg, Pa.
			WHP, Inc., 216 Locust St.
	<b>WIBA</b> 1280	1000	Madison, Wis.
			111 King St.
	<b>WIBG</b> 970	100	Glenside, Pa.
			WIBG, Inc., Keswick Bldg.
	<b>WIBM</b> 1370	100	Jackson, Mich.
			WIBM, Inc., 306 W. Michigan Ave.
	<b>WIBU</b> 1210	100	Poynette, Wis.
			Wm. C. Forrest, R. F. D. No. 3
	<b>WIBW</b> 580	1000	Topeka, Kans.
			11th & Topeka Blvd.
	<b>WIBX</b> 1200	100	Utica, N. Y.
			WIBX, Inc., 1st Natl. Bank Bldg.
	<b>WICC</b> 600	500	Bridgeport, Conn.
			Southern Conn. Broadcasting Corp.
	<b>WIL</b> 1200	100	St. Louis, Mo.
			Melbourne Hotel
	<b>WILL</b> 890	250	Urbana, Ill.
			University of Illinois
	<b>WILM</b> 1420	100	Wilmington, Del.
			920 King St.
	<b>WIND</b> 560	1000	Gary, Ind.
			504 Broadway
	<b>WINS</b> 1180	1000	New York, N. Y.
			110 E. 58th St., Hearst Radio, Inc.
	<b>WIOD</b> 1300	1000	Miami, Fla.
			Herald Bldg., Metropolis Pub. Co.
	<b>WIP</b> 610	1000	Philadelphia, Pa.
			Gimbel Bldg.
	<b>WIS</b> 560	1000	Columbia, S. C.
			Station WIS, Inc., 1811 Main St.
	<b>WISN</b> 1120	250	Milwaukee, Wis.
			123 W. Michigan St., Hearst Radio, Inc.
	<b>WJAC</b> 1310	100	Johnstown, Pa.
			WJAC, Inc., Locust St.
	<b>WJAG</b> 1060	1000	Norfolk, Neb.
			Norfolk Daily News
	<b>WJAR</b> 890	500	Providence, R. I.
			Outlet Co., Weybossett St.
	<b>WJAS</b> 1290	1000	Pittsburgh, Pa.
			Chamber of Commerce Bldg.
	<b>WJAX</b> 900	1000	Jacksonville, Fla.
			City of Jacksonville
	<b>WJAY</b> 610	500	Cleveland, Ohio
			1224 Huron Road
	<b>WJBC</b> 1200	100	Bloomington, Ill.
			Kaskaskia Broadcasting Co.

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<b>WJBK 1500 100</b> Detroit, Mich. 6559 Hamilton Ave.	<b>WLBF 1420 100</b> Kansas City, Kans. WLBF Broadcasting Co., Huron Bldg.
<b>WJBL 1200 100</b> Decatur, Ill. Gushard Bldg.	<b>WLBL 900 2500</b> Stevens Point, Wis. Wisconsin Dept of Agriculture and Markets
<b>WJBO 1420 100</b> Baton Rouge, La. Baton Rouge Broadcasting Co., Inc.	<b>WLBZ 620 500</b> Bangor, Me Maine Broadcasting Co., Inc., 100 Main
<b>WJBW 1200 100</b> New Orleans, La. C. C. Carlson, 2743 Dumaine St.	<b>WLEU 1420 100</b> Erie, Pa. Leo J. Omelian
<b>WJBY 1210 100</b> Gadsden, Ala. Gadsden Broadcasting Co., 112 N. 8th St.	<b>WLLH 1370 100</b> Lowell, Mass. Albert S. Moffat, Box D
<b>WJDX 1270 1000</b> Jackson, Miss. Lamar Life Bldg.	<b>WLNH 1310 100</b> Laconia, N. H. 523 Main St.
<b>WJEJ 1210 100</b> Hagerstown, Md. Lovely Danie Bldg.	<b>WLS 870 50000</b> Chicago, Ill. 1230 W. Washington Blvd.
<b>WJIM 1210 100</b> Lansing, Mich. Capital City Brdestg. Co.	<b>WLTH 1400 500</b> Brooklyn, N. Y. 305 Washington St.
<b>WJJD 1130 20000</b> Chicago, Ill. WJJD, Inc., 201 N. Wells St.	<b>WLVA 1200 100</b> Lynchburg, Va. 915 Main St.
<b>WJMS 1420 100</b> Ironwood, Mich. WJMS, Inc., St. James Hotel	<b>WLW 700 50000</b> Cincinnati, Ohio 1329 Arlington St.
<b>WJR 750 10000</b> Detroit, Mich. WJR, Inc., Fisher Bldg.	<b>WLWL 1100 5000</b> New York, N. Y. 415 W. 59th St.
<b>WJSV 1450 10000</b> Washington, D. C. Shoreham Bldg.	<b>WMAL 630 250</b> Washington, D. C. 712-11th St., N. W.
<b>WJTL 1370 100</b> Atlanta, Ga. Oglethorpe University	<b>WMAQ 670 50000</b> Chicago, Ill. Merchandise Mart
<b>WJW 1210 100</b> Akron, Ohio WJW, Inc., 41 S. High St.	<b>WMAS 1420 100</b> Springfield, Mass. WMAS, Inc., 70 Chestnut St.
<b>WJZ 760 50000</b> New York, N. Y. 30 Rockefeller Plaza	<b>WMAZ 1380 1000</b> Macon, Ga. 211 Cotton Ave.
<b>WKAQ 1240 1000</b> San Juan, P. R. Radio Corp. of Porto Rico, P. O. Box 358	<b>WMBC 1420 100</b> Detroit, Mich. 7310 Woodward Ave.
<b>WKAR 1040 1000</b> East Lansing, Mich. Michigan State College	<b>WMBD 1440 500</b> Peoria, Ill. 114 N. Madison St.
<b>WKBB 1500 100</b> East Dubuque, Ill. Richard W. Hoffman	<b>WMBG 1210 100</b> Richmond, Va. 914 W. Broad St.
<b>WKBF 1400 500</b> Indianapolis, Ind. 510 N. Meridian St.	<b>WMBH 1420 100</b> Joplin, Mo. 1334 Roosevelt St.
<b>WKBH 1300 1000</b> LaCrosse, Wis. WKBH, Inc., 409 Main St.	<b>WMBI 1080 5000</b> Chicago, Ill. 153 Institute Place
<b>WKBI 1420 100</b> Cicero, Ill. WKBI Inc., 6138 W. Cermak Road	<b>WMO 1310 100</b> Auburn, N. Y. WMO, Inc., Metcalf Bldg.
<b>WKBN 570 500</b> Youngstown, Ohio 17 N. Champion St.	<b>WMBQ 1500 100</b> Brooklyn, N. Y. Paul J. Gollhofer, 95 Leonard St.
<b>WKBO 1200 100</b> Harrisburg, Pa. Penn Harris Hotel	<b>WMBR 1370 100</b> Jacksonville, Fla. F. J. Reynolds, Carling Hotel
<b>WKBV 1500 100</b> Richmond, Ind. Knox Radio Corp., Box 308	<b>WMC 780 1000</b> Memphis, Tenn. WMC, Inc., Hotel Gayoso
<b>WKBW 1400 5000</b> Buffalo, N. Y. Rand Bldg.	<b>WMCA 570 500</b> New York, N. Y. 1697 Broadway
<b>WKBZ 1500 100</b> Muskegon, Mich. Earl L. Ashbacher & Sons	<b>WMEX 1500 100</b> Boston, Mass. The Northern Corp., Hotel Manger
<b>WKEU 1500 100</b> Griffin, Ga. Radio Station WKEU, 906 Hill St.	<b>WMFD 1370 100</b> Wilmington, N. C. Richard Austin Dunlea
<b>WKJC 1200 100</b> Lancaster, Pa. 16 W. King St.	<b>WMFE 1380 250</b> New Britain, Conn. William J. Sanders
<b>WKOK 1210 100</b> Sunbury, Pa. 1150 N. Front St.	<b>WMFF 1310 100</b> Plattsburg, N. Y. Plattsburg Broadcasting Corp.
<b>WKRC 550 1000</b> Cincinnati, Ohio WKRC, Inc., Hotel Alms	<b>WMFG 1210 100</b> Hibbing, Minn. Head of the Lakes Brdestg. Co.
<b>WKY 900 1000</b> Oklahoma City, Okla. Plaza Court Bldg.	<b>WMFH 1120 500</b> Boston, Mass. Joseph M. Kirby
<b>WKZO 590 1000</b> Kalamazoo, Mich. John E. Fetzer, Burdick Hotel	<b>WMFI 900 500</b> New Haven, Conn. Patrick J. Goode
<b>WLAC 1470 5000</b> Nashville, Tenn. 169-4th Ave. No.	<b>WMFJ 1420 100</b> Daytona Beach, Fla. W. Wright Esch
<b>WLAP 1420 100</b> Lexington, Ky. Main & Esplanade	<b>WMFM 1200 100</b> Anderson, S. C. Wilton E. Hall
<b>WLB 1250 1000</b> Minneapolis, Minn. University of Minnesota	<b>WMFN 1210 100</b> Clarksdale, Miss. Attala Brdestg. Corp.
<b>WLBC 1310 50</b> Muncie, Ind. D. A. Burton, Anthony Bldg.	<b>WMMN 890 250</b> Fairmont, W. Va. A. M. Rowe, Inc., 325 Main St.

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<b>WMT 600</b>	<b>1000</b>	<b>Waterloo, Iowa</b> 3rd & Lafayette Sts.	<b>WPG 1100</b>	<b>5000</b>	<b>Atlantic City, N. J.</b> Convention Hall
<b>WNAC 1230</b>	<b>1000</b>	<b>Boston, Mass.</b> 21 Brookline Ave.	<b>WPHR 880</b>	<b>500</b>	<b>Petersburg, Va.</b> WLBG, Inc., Medical Arts Bldg.
<b>WNAD 1010</b>	<b>1000</b>	<b>Norman, Okla.</b> University of Oklahoma	<b>WPRO 630</b>	<b>250</b>	<b>Providence, R. I.</b> Cherry & Webb Bldg. Co., 15 Chestnut
<b>WNAX 570</b>	<b>1000</b>	<b>Yankton, S. D.</b> House of Gurney, Inc., 2nd and Capital St.	<b>WRRP 1420</b>	<b>100</b>	<b>Ponce, P. R.</b> Julio M. Conesa
<b>WNBK 1500</b>	<b>100</b>	<b>Binghamton, N. Y.</b> Arlington Hotel	<b>WPTF 680</b>	<b>5000</b>	<b>Raleigh, N. C.</b> 324 Fayetteville St.
<b>WNBH 1310</b>	<b>100</b>	<b>New Bedford, Mass.</b> 251 Union St.	<b>WQAM 560</b>	<b>1000</b>	<b>Miami, Fla.</b> Miami Bldg. Co., Inc., 327 N. E. 1st Ave.
<b>WNBO 1200</b>	<b>100</b>	<b>Washington, Pa.</b> 319 E. Beau St.	<b>WQAN 880</b>	<b>250</b>	<b>Scranton, Pa.</b> Scranton Times, 149 Penn Ave.
<b>WNBR 1430</b>	<b>500</b>	<b>Memphis, Tenn.</b> Memphis Broadcasting Co., Hotel DeVoy	<b>WQBC 1360</b>	<b>1000</b>	<b>Vicksburg, Miss.</b> Delta Broadcasting Co., Hotel Vicksburg
<b>WNBX 1260</b>	<b>1000</b>	<b>Springfield, Vt.</b> WNBX Broadcasting Corp., 39 Main St.	<b>WQDM 1370</b>	<b>100</b>	<b>St. Albans, Vt.</b> 42 N. Main St.
<b>WNBZ 1290</b>	<b>100</b>	<b>Saranac Lake, N. Y.</b> Smith & Mace, 70 Broadway	<b>WRAC 1370</b>	<b>100</b>	<b>Williamsport, Pa.</b> WRAC, Inc., 244 W. 4th St.
<b>WNEL 1290</b>	<b>500</b>	<b>San Juan, P. R.</b> Box 1252	<b>WRAW 1310</b>	<b>100</b>	<b>Reading, Pa.</b> Reading Broadcasting Co., 533 Penn St.
<b>WNEW 1250</b>	<b>1000</b>	<b>Newark, N. J.</b> Wodaam Corp., 1060 Broad	<b>WRAX 920</b>	<b>250</b>	<b>Philadelphia, Pa.</b> WRAX Broadcasting Co., 217 S. Broad St.
<b>WNOX 1010</b>	<b>1000</b>	<b>Knoxville, Tenn.</b> WNOX, Inc., Hotel Andrew Johnson	<b>WRBL 1200</b>	<b>100</b>	<b>Columbus, Ga.</b> Roya Theatre Bldg.
<b>WNRA 1420</b>	<b>100</b>	<b>Muscle Shoals, Ala.</b> Kathryn Jones, P. O. Box 486, Sheffield, Ala.	<b>WRBX 1410</b>	<b>250</b>	<b>Roanoke, Va.</b> P. O. Box 2389
<b>WNYC 810</b>	<b>1000</b>	<b>New York, N. Y.</b> Centre & Duane Sts.	<b>WRC 550</b>	<b>500</b>	<b>Washington, D. C.</b> National Press Bldg.
<b>WOAI 1190</b>	<b>50000</b>	<b>San Antonio, Texas</b> Southland Industries, Inc., 1038 Navarro	<b>WRDO 1370</b>	<b>100</b>	<b>Augusta, Me.</b> WRDO, Inc., Augusta House
<b>WOC 1370</b>	<b>100</b>	<b>Davenport, Iowa</b> Palmer School of Chiropractic	<b>WRDW 1500</b>	<b>100</b>	<b>Augusta, Ga.</b> Augusta Bldg. Co., 309 8th St.
<b>WOCL 1210</b>	<b>50</b>	<b>Jamestown, N. Y.</b> A. E. Newton, 840 N. Main St.	<b>WREC 600</b>	<b>1000</b>	<b>Memphis, Tenn.</b> WREC, Inc., Hotel Peabody
<b>WOI 640</b>	<b>5000</b>	<b>Ames, Iowa</b> Iowa State College	<b>WREN 1228</b>	<b>1000</b>	<b>Lawrence, Kans.</b> Jenny Wren Co., 8th and Vermont St.
<b>WOKO 1430</b>	<b>500</b>	<b>Albany, N. Y.</b> WOKO, Inc., Hotel Ten Eyck	<b>WRGA 1500</b>	<b>100</b>	<b>Remo, Ga.</b> 10 Third Ave.
<b>WOL 1310</b>	<b>100</b>	<b>Washington, D. C.</b> American Broadcasting Co., Annapolis Hotel	<b>WRJN 1370</b>	<b>100</b>	<b>Racine, Wis.</b> Racine Broadcasting Corp., Hotel Racine
<b>WOMT 1210</b>	<b>100</b>	<b>Manitowoc, Wis.</b> Francis M. Kadow, Box 320	<b>WRK 1410</b>	<b>500</b>	<b>Rockford, Ill.</b> 109 So. Water St.
<b>WOOD 1270</b>	<b>500</b>	<b>Grand Rapids, Mich.</b> Grand Rapids Natl. Bank Bldg.	<b>WROL 1310</b>	<b>100</b>	<b>Knoxville, Tenn.</b> Stuart Broadcasting Corp., 524 S. Gay
<b>WOPI 1500</b>	<b>100</b>	<b>Bristol, Tenn.</b> 22nd & State Sts.	<b>WRR 1280</b>	<b>500</b>	<b>Dallas, Texas</b> City of Dallas, Southland Life Bldg.
<b>WOR 710</b>	<b>5000</b>	<b>Newark, N. J.</b> 147 Market St.	<b>WRUF 830</b>	<b>5000</b>	<b>Gainesville, Fla.</b> State University
<b>WORC 1280</b>	<b>500</b>	<b>Worcester, Mass.</b> Alfred F. Kleindienst, 60 Franklin St.	<b>WRVA 1110</b>	<b>5000</b>	<b>Richmond, Va.</b> Larus & Bros Co., Inc., 22nd and Gary St.
<b>WORK 1320</b>	<b>1000</b>	<b>York, Pa.</b> York Broadcasting Co., 15 S. Beaver St.	<b>WSAI 1330</b>	<b>1000</b>	<b>Cincinnati, Ohio</b> Crosley Radio Corp., 1329 Arlington
<b>WOS 630</b>	<b>500</b>	<b>Jefferson City, Mo.</b> State Highway Control, Capitol Bldg.	<b>WSAJ 1310</b>	<b>100</b>	<b>Greve City, Pa.</b> Greve City College, 418 Poplar St.
<b>WOSU 570</b>	<b>750</b>	<b>Columbus, Ohio</b> Ohio State University	<b>WSAN 1440</b>	<b>500</b>	<b>Allentown, Pa.</b> WSAN, Inc., 39 10th St.
<b>WOV 1130</b>	<b>1000</b>	<b>New York, N. Y.</b> 18 E. 42nd St.	<b>WSAR 1450</b>	<b>250</b>	<b>Fall River, Mass.</b> Academy of Music Bldg.
<b>WOW 590</b>	<b>1000</b>	<b>Omaha, Neb.</b> Woodmen of the World, 4th and Farnam	<b>WSAZ 1190</b>	<b>1000</b>	<b>Huntington, W. Va.</b> WSAZ, Inc., P. O. Box 729
<b>WQOW 1160</b>	<b>100000</b>	<b>Fort Wayne, Ind.</b> Main Auto Supply Co., 213 W. Main	<b>WSB 740</b>	<b>50000</b>	<b>Atlanta, Ga.</b> Atlanta Journal, 7 N. Forsyth St.
<b>WPAD 1420</b>	<b>100</b>	<b>Paducah, Ky.</b> 2201 Broadway	<b>WSBC 1210</b>	<b>100</b>	<b>Chicago, Ill.</b> Gene T. Dyer, 1258 S. Michigan Ave.
<b>WPAX 1210</b>	<b>100</b>	<b>Thomasville, Ga.</b> H. Wimpy, 135 E. Jackson St.	<b>WSBT 1360</b>	<b>500</b>	<b>South Bend, Ind.</b> South Bend Tribune, 225 W. Colfax Ave.
<b>WPEN 920</b>	<b>250</b>	<b>Philadelphia, Pa.</b> 22nd & Walnut Sts.	<b>WSFA 1410</b>	<b>500</b>	<b>Montgomery, Ala.</b> Jefferson Davis Hotel

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<b>WSIX 1210 100</b> Springfield, Tenn. 638 Tire & Vulcanizing Co.	<b>WWNC 570 1000</b> Asheville, N. C. Citizen Brdcastg. Co., Inc., Flatiron Bldg.
<b>WSJS 1310 100</b> Winston-Salem, N. C. Winston-Salem Journal Co., 416 N. Marshall	<b>WWPA 850 250</b> Clarion, Pa.
<b>WSM 650 50000</b> Nashville, Tenn. 301-7th Ave. No.	<b>WWRL 1500 100</b> Woodside, N. Y. 4130-58th St.
<b>WSMB 1320 500</b> New Orleans, La. WSMB, Inc., Malson Blanche Bldg.	<b>WWSW 1500 100</b> Pittsburgh, Pa. Hote Scheuley
<b>WSMK 1380 200</b> Dayton, Ohio WSMK Inc., 4th and Main St.	<b>WWVA 1160 5000</b> Wheeling, W. Va. Hawley Bldg.
<b>WSOC 1210 100</b> Charlotte, N. C. WSOC, Inc., Box 730	<b>WXYZ 1240 1000</b> Detroit, Mich. Madison Theatre Bldg.
<b>WSPA 920 1000</b> Spartanburg, S. C. Virgil V. Evans, Ravenel & Avant St.	<b>WIXBS 1530 1000</b> Waterbury, Conn. 61 Leavenworth St., Amer. Republican, Inc.
<b>WSPD 1340 1000</b> Toledo, Ohio Toledo Broadcasting Co., 505 Jefferson	<b>W2XR 1550 1000</b> Long Island City, N. Y. Scientific Brdcastg. Serv., 41 Park Row, N. Y.
<b>WSUI 880 500</b> Iowa City, Iowa State University of Iowa	<b>W6XA 1550 1000</b> Bakersfield, Calif. Pioneer Mercantile Co.
<b>WSUN 620 1000</b> St. Petersburg, Fla. Chamber of Commerce	<b>WSXBY 1530 1000</b> Kansas City, Mo. First National Television Inc.
<b>WSVA 550 500</b> Staunton, Va. Marion K. Gilliam	<b>XEA 1060 125</b> Guadalajara, Jal. Alberto Palos Souza, Apdo. 197
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<b>WSYR 570 250</b> Syracuse, N. Y. E. Onondaga & S. Warren Sts.	<b>XEAI 1240 100</b> Mexico City, D. F. Carlos Gonzales Caballero, Insurgentes 366
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<b>WTAG 580 500</b> Worcester, Mass. 18 Franklin St.	<b>XEAM 960 50</b> Nuevo Laredo, Tams. Edificio Banco Longoria
<b>WTAM 1070 50000</b> Cleveland, Ohio 1367 E. 6th St.	<b>XEAO 560 250</b> Mexicali, B. C. Luis L. Castro, C. Altamirano 166
<b>WTAQ 1330 1000</b> Eau Claire, Wis. Gillette Rubber Co., Hotel Eau Claire	<b>XEAW 960 10000</b> Reynosa, Tams. Internacional Broadcasting Co., S. A.
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<b>WTBO 800 250</b> Cumberland, Md. Associated Brdcastg. Corp., Box 794	<b>XEC 1310 50</b> Tijuana, B. C. Luis F. Enciso, Teatro Zaragoza
<b>WTCN 1250 1000</b> Minneapolis, Minn. Wesley Temple Bldg.	<b>XECW 1310 10</b> Mexico City, D. F. Maria Elena Bravode Cordero Ave. Juarez 104
<b>WTEL 1310 100</b> Philadelphia, Pa. Broad & Erie Ave.	<b>XED 1160 500</b> Guadalajara, Jal. Cla. Radiofonografica, Apdo. 197
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<b>WTJS 1310 100</b> Jackson, Tenn. Sun Publishing Co., Sun Bldg.	<b>XEFB 1420 100</b> Monterrey, N. L. Jesus Quintanilla, P. O. Box 317
<b>WTMJ 620 1000</b> Milwaukee, Wis. The Journal Co., 333 W. State St.	<b>XEFC 1310 100</b> Merida, Yuc. J. Molina Font, Calle 59, 517
<b>WTNJ 1280 500</b> Trenton, N. J. Trenton Brdcastg. Co., Stacy Trent Hotel	<b>XEFE 920 250</b> Laredo, Tams. It. T. Carranza, Km. 4 Carretera Laredo Mt.
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<b>WWAE 1200 100</b> Hammond, Ind. 402 Hammond Bldg.	<b>XEFL 1160 500</b> Tijuana, B. C. (P. O. Box 6, San Diego, Calif.)
<b>WWC 1420 1000</b> Spartanburg, S. C. Virgil V. Evans, Ravenel & Avant St.	<b>XEFO 940 5000</b> Mexico City, D. F. Reforma No. 137
<b>WWJ 920 1000</b> Detroit, Mich. Evening News Assn., 616 Lafayette Blvd.	<b>XEFV 1210 100</b> Jaurez, Chih. Cordova & Prieto, Ave. Ferrocarril 1104

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<b>XELA 1240 50 Saltillo, Coah.</b> Enrique Gomez, Chauternos 28 Sur	<b>XEX 1310 125 Monterrey, N. L.</b> L. F. Petit Jean, P. O. Box 10
<b>XELC 740 100 Mexico City, D. F.</b> Manuel Valdes Bravo, C. Central 112	<b>XEXX 845 500 Mexico City, D. F.</b> Av. Pino Suarez 9
<b>XELM 1310 15 Mineral del Monte, Dgo.</b> Jose Sanchez, Abesolo 1-A	<b>XEYZ 780 10000 Mexico City, D. F.</b> Angel M. Diaz, Ave. Juarez 48
<b>XEMA 1080 50 Tampico, Tams.</b> Manuel M. Pler, Aretanos 10	<b>XEZ 630 500 Merida, Yuc.</b> Jorge L. Palomeque, Estameros Ctd 214
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<b>XEMX 1280 12 Mexico City, D. F.</b> Alfonzo T. Aavales	<b>XFB 1270 1000 Jalapa, Ver.</b> Gobierno del Estado de Veracruz
<b>XEN 710 1800 Mexico City, D. F.</b> Cerveceria Modelo Ave. Juarez 77	<b>XFC 810 350 Aguascalientes, Aga.</b> Gobierno del Estado de Aguascalientes
<b>XENT 910 60000 Nuevo Laredo, Tams.</b> Box 410, Laredo, Texas	<b>XFD 1340 350 Orizaba, Ver.</b> Gobierno Estado de Veracruz
<b>XEOX 640 250 Saltillo, Coah.</b> Victoria No. 4, Altos.	<b>XFO 940 5000 Mexico City, D. F.</b> Nat. Rev. Party, Ave. Morelos 110
<b>XEP 840 500 Mexico City, D. F.</b> Cia Difusora de Mexico S. A., Rembrandt 11	<b>XFX 610 1000 Mexico City, D. F.</b> Secretaria de Educacion Publica
<b>XEPN 590 50000 Piedras Negras, Coah.</b> Piedras Negras Brdcast. Co., Madero 53	<b>10-AK 1200 15 Stratford, Ont.</b> M. I. Higgins, 161 Ontario St.
<b>XES 990 250 Tampico, Tams.</b> Fernando Sada, Box 309	<b>10-BP 1200 25 Wingham, Ont.</b> W. T. Cruickshank, Box 65

## 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*.

<b>Amateur phones are heard between</b> 1.875 and 2.000 megs. 3.900 and 4.000 megs. 7.000 and 7.300 megs. (Foreign only). 14.150 and 14.250 megs.	<b>CTGO, Lisbon, Portugal, 6.190.</b> Sat., 8-9 p.m.; Tues, Thurs., 7:30-8:15 p.m. 12:30: Sat., Sun., 9-10 a.m. <b>DJA, Zeesen, Germany, 9.560.</b> Daily, 8-11:30 a.m.; 5:15-9:15 p.m. <b>DJB, Zeesen, Germany, 15.200.</b> 3:45-7:15 a.m. <b>DJC, Zeesen, Germany, 6.020.</b> Noon to 4:30 p.m.; 5:30-10:45 p.m. <b>DJD, Zeesen, Germany, 11.760.</b> Noon to 4:30 p.m. <b>DJE, Zeesen, Germany, 17.760.</b> Irregularly, Mornings. <b>DJN, Zeesen, Germany, 9.540.</b> 3:45-7:15 a.m.; 8-11:30 a.m.; 5:15-10:45 p.m. <b>DJQ, Zeesen, Germany, 15.280.</b> 12:30-2 a.m. <b>EAQ, Aranjuez, Spain, 9.862.</b> 5:30-7 p.m.; Sat. noon to 2 p.m.	<b>GBB, Rugby, England, 13.500.</b> Phones Canada. <b>GBS, Rugby, England, 12.150.</b> Phones N. Y. <b>GBU, Rugby, England, 12.240.</b> Phones N. Y. <b>GBW, Rugby, England, 14.440.</b> Phones N. Y. 6-8 p.m. <b>GSA, Daventry, England, 6.050.</b> 10:45 a.m. to 12:45 p.m.; 4:30-5:45 p.m.; 6-8 p.m. <b>GSB, Daventry, England, 9.510.</b> 3-4 a.m.; 9:15 a.m. to noon; 1-5:45 p.m. <b>GSC, Daventry, England, 9.580.</b> 6-8 p.m. <b>GSD, Daventry, England, 11.750.</b> 3-5 a.m.; 1-4:30 p.m. <b>GSE, Daventry, England, 11.860.</b> 6-10:45 a.m. <b>GSF, Daventry, England, 15.140.</b> 6-9 a.m.
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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 DJJ VK2ME W3XAL W8XK W9XF XEBT	DJQ VK2ME W9XF		DJB DJN GSD GSF RV15	DJB DJN GSD GSF JVT RV15 VK2ME VK3LR	DJB DJN HJV JVT JVU LKJ1 RNE VK2ME VK3LR VK3ME YDA	DJB DJN GSE GSF Rabat RV15 JVU LKJ1 RV15 VK2ME VK3LR VK3ME W1XAZ YDA	GSE GSF Pont. Rabat RV15 VE9GW VK2ME W1XAZ W8XK	DJA DJN GSF HAS3 PCJ PHI Pont. Rabat. VE9GW VK2ME W1XAZ W8XK	DJA DJN GSB GSE PCJ PHI Pont. VE9GW W8XK	DJA DJN GSA GSB GSE Pont. Rabat. VE9GW W3XL W8XK W9XAA	DJA DJN GSA GSB GSE Pont. Rabat. VE9GW W3XL W8XK W9XAA

## NOON TO MIDNIGHT (EST)

GMT	17:00	18:00	19:00	20:00	21:00	22:00	23:00	24:00	1:00	2:00	3:00	4:00
AST	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00
EST	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00
CST	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00
MST	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00
PST	9:00	10:00	11:00	12:00	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00
	DJC DJJ EAQ GSA Pont. VE9GW W1XAZ W2XE W3XAL W3XAU W3XL W8XK W9XAA	DJC DJJ EAQ GSB GSD IRO Pont. VE9GW W1XAZ W3XAL W3XAU W3XL W8XK W9XAA XEBT	DJC DJJ GSB GSD IRO Rabat VE9GW W1XAZ W2XA1 W3XAL W3XAU W3XL W8XK W9XAA XEBT	DJC DJJ GSB GSD IRO ORF Pont. Rabat RV59 W1XAZ W2XE W3XAL W3XAU W8XK W9XAA XEBT	COC CT1AA DJJ DJJ GSA GSD IRO LCL H1B1 H1J1AB1 Pont. RV59 Rabat VE9GW W1XAZ W2XE W3XAL W3XAU W8XK W9XAA XEBT YV3RC	COC COH CT1AA DJJ DJA DJJ GSA GSD IRO H1B1 H1J1AB1 Pont. RV59 Rabat VE9GW W1XAL W1XAZ W3XAL W3XAU W8XK W9XF W9XAA XEBT YV3RC	COC CT1AA DJA DJN DJJ DJJ GSA GSD GSC HC2RL H1J1AB1 H1J1AB1 H1J1AB1 IRA Pont. Rabat VE9GW W1XAL W1XAZ W2XAF W2XE W3XAL W3XAU W8XK W9XAA XEBT YV3RC YV4RC YV5RMO	DJA DJJ GSA GSC DJJ DJJ HAT H1J1AB1 H1X H1J1AB1 H1J1AB1 IRA T1XGP3 W1XAF W2XAF W2XE W3XAL W3XAU W8XK W9XAA XEBT YV3RC YV4RC YV5RMO	CJRO CJRX DJN CP5 DJA DJJ HAT H1J1AB1 H1X H1J1AB1 H1J1AB1 IRA T1XGP3 VE9GW W1XAF W2XAF W2XE W3XAL W3XAU W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJRX DJJ DJJ HC2RL HC2RT HP5B OAX4D PRADO T1XGP3 VE9GW W1XAF W2XAF W2XE W3XAL W3XAU W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJRX DJJ DJJ HC2RL HC2RT HP5B OAX4D PRADO T1XGP3 VE9GW W1XAF W2XAF W2XE W3XAL W3XAU W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO	CJRO CJRX COH DJN DJJ HC2RL HC2RT HP5B OAX4D PRADO T1XGP3 VE9GW W1XAF W2XAF W2XE W3XAL W3XAU W8XK W9XAA XEBT YV2RC YV3RC YV4RC YV5RMO



HAS3, Skokesfehevar, Hungary, 15370. Sun., 8-9 a.m.  
HAT, Skokesfehevar, Hungary, 5400. Sun., 8-9 p.m.  
HBL, Prangins, Switzerland, 9596. Sat. 5:30-6:15 p.m.  
HBP, Prangins, Switzerland, 7797. Sat. 5:30-6:15 p.m.  
HCJR, Quito, Ecuador, 8200. 8:15-10:15 daily except Monday.  
HC2ET, Guayaquil, Ecuador, 4600. Fri., Sat., 9:30-11 p.m.  
HC2RL, Guayaquil, Ecuador, 6659. Tues. 9:14-11:14 p.m.; Sun. 5:45-7:46 p.m.  
HIEH, San Pedro de Macoris, D. R., 6810. 4-7:30 p.m.  
HIX, Santo Domingo, D. R., 5948. Tues. and Fri., 8-10 p.m.  
HIIA, Santiago de los Caballeros D.R., 6240. 7:30-9:30 p.m. daily.  
HI-4-D, Santo Domingo, D.R., 6500. 4:40-7:40 p.m.  
HJA2, Bogota, Colombia, 5825.  
HJA3, Barranquilla, Colombia, 12830  
HJB, Bogota, Colombia, 14930.  
HJN, Bogota, Colombia, 6080. Tests irreg.  
HJ1ABB, Barranquilla Colombia, 6447. 5-10 p.m.  
HJ1ABF, Cartagena, Colombia, 6115. Monday, 10-mid., Wed., 8-10 p.m.  
HJ1ABG, Barranquilla, Colombia 6402. 7-10 p.m.  
HJ2ABC, Cucuta, Colombia, 5975. 6-9 p.m.  
HJ3ABD, Bogota, Colombia, 7406. "Colombia Broadcasting." 6-9 p.m. daily.  
HJ4ABB, Manizales, Colombia, 7200 Wed., 8-9 p.m.; Sun., 3-6 p.m.  
HJ4ABE, Medellin, Colombia, 5900. 7-11 p.m.  
HJ5ABD, Cali, Colombia, 6490. Thurs., Sat., Sun., 7-9 p.m.  
HFP, Panama City, Panama, 14545. Phones Hialeah.  
HP5B, Panama City, Panama, 6030. 7-10:30 p.m.  
HSJ, Bangkok Slam, 7980.  
HVJ, Valtcan City, 15120. 5-5:15 a.m. daily except Sunday. Occasionally from 10-10:30 a.m.  
IRA, Rome, Italy, 6070. Mon., Wed., Fri., 6-7:30 p.m.  
IRE, Rome, Italy, 11810.  
IRO, Rome, Italy, 9780. 2:30-5 p.m. daily; Mon., Wed., Fri., 7:45-9:15 p.m.  
IS3, Bolling Field, Va., 6412.  
I2R0, Rome, Italy. 5:550; 5:725; 6:980; 9:630; 4-7 p.m. irreg.  
JVIE, Nazaki, Japan, 15660. Phones Java, nights.  
JVF, Nazaki, Japan, 15620. Phones Dixon. 5-11 p.m.  
JVQ, Nazaki, Japan, 7470. Phone.  
JVT, Nazaki, Japan, 6750; 4-8 a.m.  
JVU, Nazaki, Japan, 5790. 4-8 a.m.  
KAY, Manila, P. I., 14980. Phones Dixon.  
KKH, Kabuku, T. H., 7520. Phones Dixon.  
KKP, Kabuku, T. H., 16030. Phones Dixon.  
KNRA, "Seth Parker", 6160; 6:660; 6:670; 8:230; 8:820; 8:840; 13:200  
KWO, Dixon, Calif., 15415. Phones Hawaii and Manila.  
KWU, Dixon, Calif., 15355. Phones Japan.  
KWX, Dixon, Calif., 7610. Phones Hawaii.  
LCL, Jeloj, Norway, 6130. 11 a.m. to 5 p.m.  
LKJ1, Jeloj, Norway, 9540. 5-8 a.m.  
OAX41D, Lima, Peru, 5780. Wed. and Sat., 9-11:30 p.m.  
ORK, Ruyssede, Belgium, 10330. 2:45-4:15 p.m.  
PCJ, Hilversum, Netherlands, 15220. Sun., 8-11 a.m.  
PHI, Hilversum, Netherlands, 11725. 8-11 a.m.  
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15243; 7:30-11 a.m.  
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12830. Sun., 7-9 a.m.  
RK1, Moscow, U.S.S.R., 7520. Phones USA.  
RNE, Moscow, U.S.S.R., 12000. Sun. 6 a.m. and 10 a.m.  
RV15, Khabarovsk, U.S.S.R., 4273. 3-9 a.m.  
RV59, Moscow, U.S.S.R., 5996. 3-6 p.m.  
TGX, Guatemala City, Guatemala 5937. Sun., 1-3 a.m.; other days, 8-12 p.m.  
TIEP, San Jose, Costa Rica, 6710 7-10 p.m.  
TLXGP3, San Jose, Costa Rica, 5820. 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.

"The IDA put me in touch with RADEX and the DX Log of the World. What a boon they both are. I cannot conceive a finer paper than RADEX."

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."

Clifford Drain, 617 Camden St., Parkersburg, W. Va.

"I buy the three most important radio magazines. If I were forced to get only one, it would be RADEX, for no one interested in radio should be without it. It gives one everything from A to Z."

Bruce P. Lundy, Jr., R. D. 1, Box 121, Jersey Shore, Pa.

VE9GW, Bowmansville, Ont., 6.095. Sun., noon to 8 p.m.; Mon., Tues., Wed., 2-11 p.m.; Thur., Fri., Sat., 6 a.m. to 11 p.m.

VE9HX, Halifax, N. S., 6.110, 5-11 p.m.

VK1, Selfridge 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; 4:53; 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.

W3XAL, 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.

W3XAU, Newton Sq., Pa., 6.060. 8 p.m. to 11 p.m.

9.590. Noon to 8 p.m.

W3XL, 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 8 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., 6.610. Relays XEB, 10 a.m. to 11 p.m.

XGO, Shanghai, China, 7.675.

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. 6:15-10 p.m.

YV3RC, Caracas, Venezuela, 6.150. 5-10 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: HJLABH, PRADO, TIEP, YNLF, YV4RC, YV5RMO.

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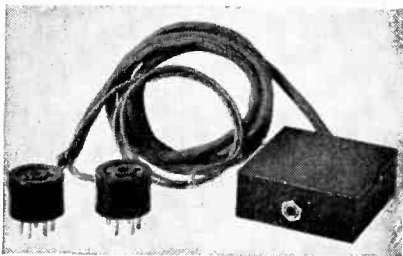
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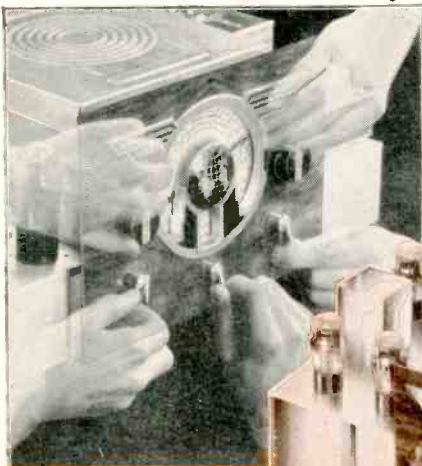
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