

THE FEBRUARY 1933

RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



25^c

How to Attach Phones to Your Set
Substituting the New Type Tubes
Time on the Air of Trans-Pacifics
The 100 Best Short Wave Stations
Friday's Time on the Air

No. 66

FEBRUARY 1, 1933



RADIO IN DEX

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FRED CLAYTON BUTLER

Editor and Publisher



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NINTH YEAR

NUMBER 66

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of the firm of "Myrt & Marge"

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ADDRESS ALL CORRESPONDENCE TO CLEVELAND OFFICE

USING PHONES

• • • *For Elusive Signals*

By B. FRANCIS DASHIELL

THIS magazine receives many communications from its readers who wish to attach headphones to their modern a. c. radio sets. While manufacturers persist in offering new receivers without provision for headphone operation, there are many thousands of enthusiastic listeners who would like to DX for elusive signals if they could substitute sensitive telephone sets for noisy loud speakers. This is especially true late at night when the speaker may prove to be an annoyance to others.

It is impossible to brush over the whole field of modern radio sets in an article such as this. The directions must necessarily be rather general in their scope and require individual interpretation and adaption to meet the peculiar characteristics of the radio receiver in question. However, anyone should be able quickly to attach a pair of headphones to any a. c. or battery operated set.

The headphones should be selected with care; they should be light in weight, fit snugly to exclude external noises, and yet not be uncomfortable after some hours of wear. The resistance must be from 2,000 to 3,000 ohms. Sensitivity can be tested by moistening the cord tips on the tongue and then touching them together; a sharp click should be heard. The cord ought to be heavy, long, and well insulated. Reverse the diaphragms beneath the caps occasionally to prevent warping under the constant pull of the magnets.

The uninitiated listener need only know the location of the power tube in order to install headphones. But the typical circuit diagrams shown herewith will provide a more complete explanation, for the diagrams

that accompany new sets will be found similar in most respects to those portions of the standard circuits illustrating this text. The additional wiring and parts necessary to install headphones are indicated by the broken lines. It is necessary only to identify the audio output and tube, make the connection to the plate or grid by means of a thin wafer adapter permanently placed beneath the tube, and place a small switch to silence the speaker.

Many of our readers have used the plug-in type of telephone adapter. It simplifies the connection of headphones to radio sets, but does not give the volume obtained by the methods to be described. And a certain difficulty arises from the use of



Yes, this is Gracie herself, Radio's inimitable comic. Burns and Allen, Wednesdays at 9:30 p.m. EST on the CBS

plug adapters due to the fact that a tube must be removed from its socket. This may seriously change the potentials and balancing of the receiver power and filter unit, and most manufacturers are emphatic in their warnings of such procedure.

When a plug-in adapter is used in the first audio tube socket the volume of sound in the headphones will be less than when used in the last power tube socket, and it will be much less if used in the second detector tube socket. Figure 1 shows the internal connections of the adapter. The telephone tips are connected directly to the grid prong and to one of the filament terminals. Adapter "A" has four prongs and may be inserted in sockets taking tube types -10, -12A, -20, -26, -30, -31, -45 and -71A.

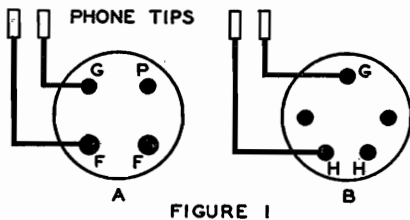


FIGURE 1

Adapter "B" shows a 5 prong base for use in sockets taking -27, -33, 46, -47 and 56 type tubes. These adapters cannot be used in sockets for tubes having the control-grid cap on the top, such as types -22, -24A, -32, -35, -36, -38, -39, 57 and 58.

It must be remembered that headphones cannot be attached in place of a dynamic loud speaker. Ordinary phones with a current capacity of only 5 milliamperes will not handle the high potentials of modern a. c. receivers. The coils of extremely fine wire are quickly overloaded and the phones become hot and soon are damaged. Headphones can be used only in output circuits where plate potentials do not exceed 135 volts, in connection with -01A, -12A, -20, -30, -31, and -71A types of tubes. Even then, in excess of 90 volts, the use of an output transformer, with phones con-

nected across the secondary, is recommended.

Headphones cannot be connected in high voltage circuits unless suitable blocking condensers and resistors are utilized to keep harmful direct currents out of the windings. Only the surges of pulsating, or alternating current, which actually vibrate the diaphragms of the phones, are permitted to pass. Care must be exercised to avoid the high voltages present in the plate circuits with the resulting risk of severe shocks through the telephones, or short circuits and serious damage.

Insulated installation is all that is necessary when attaching wafer adapters, condensers, resistors and extension wiring. The headphone-tip connections should be provided at some convenient location in the cabinet, while a small switch is used to turn off the loudspeaker at will.

Connections to tubes and sockets are made with permanently placed "wafer adapters." This form of adapter is a contacting device made of a thin sheet of insulating material with either four or five holes punched through so as to fit over the prongs of the tube. It then fits snugly between the tube base and the socket without further removal of the tube. Contacts to the tube prongs are provided for in the holes, and there are projecting lugs to which the connecting wires are soldered.

Figure 2 shows an arrangement of such sockets, looking down upon the tops, and which correspond to the holes in the wafer adapters. These will serve as a guide when making headphone connections to the plates or grids of the tubes when the proper prong locations are not known. Adapter "A" may be used with tube types -10, -12A, -20, -26, -30, -31,

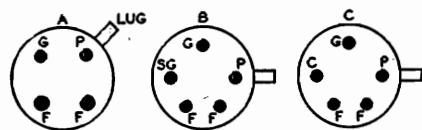


FIGURE 2

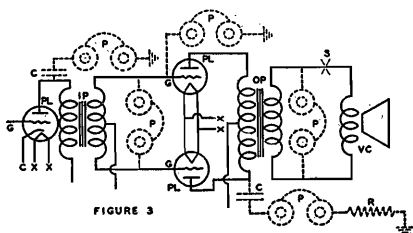


FIGURE 3

-45 and -71A; "B" with types -33, 46 and -47; and "C" with types -27 and 56.

A typical power stage is shown in Figure 3. The telephones P may be attached in several positions. Tube at left is a first audio stage, and phones can be connected between its plate PL and the ground, chassis frame, or cathode terminal. A .1 to .5 microfarad blocking condenser C must be connected between the plate and the phones. A very simple arrangement is to place the phones across the grids of the two push-pull tubes, or the secondary of the input transformer IP. Likewise, phones may be placed across the secondary of the output transformer OP. If phones are connected to plate PL, of either of the power tubes, at least a .25 mfd. condenser C must be used in series with a 2-watt resistance R of 15,000 ohms and the ground or chassis.

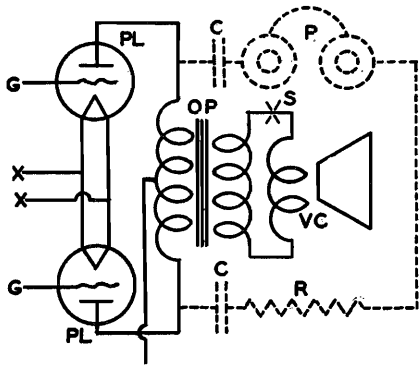


FIGURE 4

Good results will be obtained when the phones P are connected across the two power tube plates, as shown in Figure 4. Use two .1 to .5 mfd.

blocking condensers C (300 volts) with a 25,000 ohm resistor R in series. This connection may also be made directly across the primary of the output transformer OP if tube socket leads are not practicable.

Figure 5 shows an adjustable arrangement. The .25 blocking condensers C are connected to adapter lugs under the power tubes. They in turn connect to the terminals of a 500,000 ohm potentiometer R2. The phones P are placed in the circuit between the grounded end of the potentiometer and its movable arm. Two 100,000 ohm resistors R and R1, each of two watts capacity, are also connected in series between the condensers, but have their common terminal grounded. The adjusting knob varies the current passing through the phones and regulates the volume of sound.

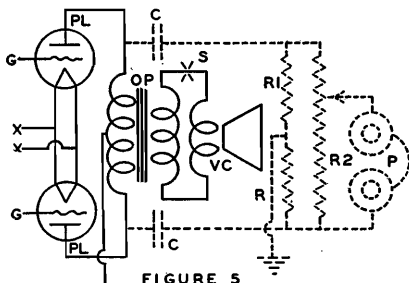


FIGURE 5

When headphones are placed in the circuit of a second detector, ahead of the driver or first audio tube, they should be attached as shown in Figure 6—across the primary of the audio transformer IP. Radio sets that utilize batteries with fixed-magnet dynamic speakers should have the phones attached to the plate PL of the power tube and then to the ground through a .1 mfd. condenser C, as shown in Figure 7.

Connecting headphones to the plates of power tubes with blocking condensers in series will keep out the dangerous high voltages, and the volume of sound will be at its maximum. But such capacity coupling, with all tubes properly in place, also permits the usual current to flow in the

DXing on the High Seas

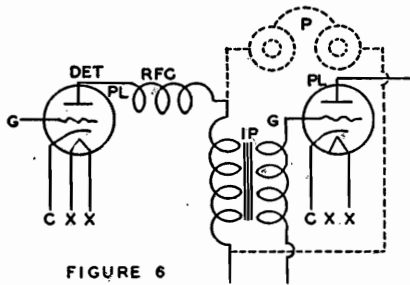


FIGURE 6

speaker circuit which operates at full volume. This is a disadvantage and requires additional treatment. The use of adapter plugs, previously mentioned, connects the phones into the grid circuit with less volume of sound, but the removal of the tube effectively silences the loud speaker.

The speaker can be silenced by preventing the voice coil VC, shown in Figures 3, 4, 5, and 7, from operating by opening one of the wires leading to the secondary of the output transformer OP and inserting small snap-switch at S. This switch is opened when the headphones are being used. In most receivers the transformer OP and voice coil VC are mounted closely adjacent in a single unit, and it will be necessary to locate one of the short wires, which, after cutting, must be extended to some convenient place in the cabinet where the switch can be placed.

(Publisher's Note—If the wafer adapters cannot be secured from a radio dealer, they are available through this magazine for fifty cents each. Be sure to specify four-hole or five-hole.)

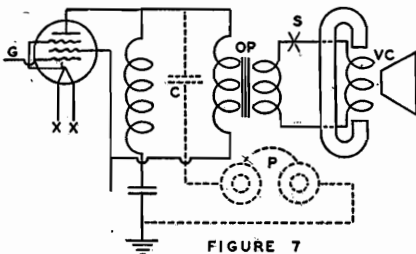


FIGURE 7

AN interesting letter comes to us from Wm. S. Vincent, a member of the crew of the ocean-going freight steamer, S. S. Bessemer-City, of the Isthmian Steamship Co., who writes: "Our trips are not over any one route. We never know where we are going next trip. Letters are forwarded to us from the home office but magazines are not so I look for RADEX whenever I am in a U. S. port. The October number I purchased here (Honolulu).

"I am using a receiver made by Nathaniel Baldwin of Salt Lake City. When closed up it is a small suit case. It uses eight tubes, two 24s and six 27s. I am using it on direct current from the ship's generators and I might say that it has exceeded my highest hopes both in port and at sea.

"Some of the freak distances that I have received would astonish Mr. Ripley himself. My standbys are KFI, KOA, KSL, KMOX, WENR from the Pacific. The best Canadian is CFCN. Of course XER is heard plainly. WOAI is good on the two oceans. On the Atlantic our best are KDKA, WLW, WEA, WABC, WPG and WBZ. These stations are dependable and consistent.

"I noticed with interest the mention you made of the Tobe Filterette in the October issue. They are good. I am using their No. 110 P. O., 110 volts, 5 amps. Have used it for a year now. Without it my set is almost useless—electric fans, pumps, machine shop motors, etc., added to the noise from generators. The Tobe eliminates all that. Remember my current comes direct from the dynamo with nothing but a couple of fuse plugs between. I use a lead covered lead in wire with soldered joints."

Mr. Vincent has sailed the seas for over ten years, two of them on his present ship.

Short Wave Antennas and Grounds

By JAMES MILLEN, M. E.

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THE importance of a good short wave antenna cannot be overstated if the full possibilities of enjoyable reception are to be realized. Commercial companies have spent millions of dollars in the development of suitable short wave aerial systems, while the average short wave experimenter is content with a shoddy installation which experience has taught him works fairly well on his broadcast receiver.

Because an antenna is effective on the lower broadcast frequencies, it does not follow that it is a satisfactory short wave aerial. Induced currents, man-made static and leakage effects which would not be annoying on 300 meters, will seriously impair reception at 30 meters. The peculiar carrying power of the very high frequencies, which makes short wave reception possible on almost any kind of an antenna, is responsible for the slipshod aerial systems, which, in turn, are largely responsible for noisy reception and a retarded acceptance of short wave reception on the part of the average radio fan.

Wherever choice is possible the short wave receiving station should be located away from power lines, electrically operated machinery of any kind and isolated, as far as practical, from roads carrying automobile traffic and monitored by traffic lights.

While the antenna should be carefully installed, it need not be in any way elaborate. A single horizontal wire, T or L type, twenty-five to fifty feet in length will provide ample pick-up. If possible, the antenna should be erected in the open, and as high as practical. It should be well insulated, at each end, and of fairly heavy wire—say number 14, insulated or bare. It should be erected as far away as

circumstances will permit from possible sources of noise interference, and should not parallel power lines. It should preferably run at right angles to the nearest road. It should be clear of tree branches in the strongest wind.

The leadin should be well supported, thoroughly insulated, and should be brought indoors through a leadin insulator not of the window strip variety. The lightning arrester should be of the highest quality. Any joints in the antenna system—aerial, leadin and ground—should be soldered. It is particularly important that the leadin be kept as far away as possible from power lines, elevator shafts and electrical machines of all descriptions.

Equal care and attention should be directed to the ground connection. Where several possible grounds are available, they should be tried individually and in groups for the least noisy connection. The ground leads should be soldered to the clamps and the clamps themselves soldered to the pipes.

Indoor antennas are very effective, but obviously it is seldom possible to erect them as far away from interference inducing sources as an outdoor antenna. The indoor antenna is really nothing more than "leadin"—and it is appreciated that the ordinary leadin will pick-up noise. The main idea of the outdoor antenna is to obtain a noise free pick-up so that the signal to noise ratio will be improved. If an indoor antenna is erected, the same precautions as to rigidity, insulation and preferred location should be observed.

Under no circumstances use any form of "patented" aerial tacked to the walls, under rugs, or socket type antennas and expect satisfactory short wave results.

GOSSIPING ABOUT RADIO

• • • *With the Editor*

BEGINNING with this issue of your favorite radio magazine, we are changing our entire method of distribution throughout North America. One of our objects is to try to have each issue on the newsstand by the first day of the month. If our readers find that we are failing to achieve this goal in any particular city, we ask that they advise us and thus help us to eliminate any causes of delay.

Copies will be mailed to our subscribers between the 20th and 24th of the previous month and these should be in their hands by the 28th excepting in the far western states and parts of Canada. Certainly all subscribers should have their copies by the last day of the month.

So great has been the demand for the map of the world with time converting dial that our edition is entirely exhausted but a second issue is now on the press. Our New Zealand and Australian readers will be able to secure one of the map-converters from the Radio Record of Wellington, N. Z., who have been licensed under our copyright to produce an Oceanic edition.

Those DX Rules

In our next issue we will try to summarize the opinions of our readers in regard to the DX rules suggested and analyzed in the January number. At present there is a sharp division of opinion in regard to most of the rules which we shall seek to harmonize.

From time to time we receive requests from our readers asking our help in identifying certain stations whose programs consisted of phonograph records without announcements. In almost every case these are stations testing merely for their own information. After midnight stations may conduct tests for the im-

provement of their transmission. It is, of course, quite impossible for us to identify such programs as they may come from any one of the several stations on the given frequency. This replies to T. J. Johnson, Bowlegs, Okla., James Ottenberg, 161 West 86th St., New York, and others.

In this connection we have found that it is quite useless for us to publish requests as to "what station did I hear" with the name of the selection. Few if any of our readers note down selections heard and most selections are played over and over by various stations. For us to help you identify the program heard must be something out of the ordinary like the cricket game, the source of which we are now trying to find.

How Much Postage?

"Could you put a list of countries in RADEX giving the postage rates?" asks Joe Tamele, 13201 Coath Ave., Cleveland. Roughly, first-class letters to any country in North America require three cents postage. The two exceptions are Bermuda and British Honduras which like the other parts of the British Empire including Australia and New Zealand, require five cents. The other European countries are likewise five cents, with the exception of Spain and the Spanish colonies which are still three cents. South American countries are still three cents with the exception of British and Dutch possessions there. These are five cents.

Next to increasing their distance our readers are most interested in the elimination of man-made noises which spoil their reception and reports of success on the part of listeners in remedying this problem are always welcome.

"I purchased a new Philco radio model 71-D, 7-tube super in October and had noisy reception with little

distance, due to very poor conditions around me," reports Fred D. Thompson, 11 Ave. A., Johnson City, N. Y. "I live in an apartment with a barber shop, and a restaurant using a large electric refrigerator below me, and three factories less than two blocks distant. In November I installed a Tobe Filterizer and the results have been truly remarkable. Stations I could not get before came tumbling in every night. Have dialed 150 so far, including 12 Canadian, 2 Cuban and 3 Mexican. Among the Canadians are CFAC and CJCA in Alberta, and CKPC, CFCH, CHCH, three 100-watters, and CKIC, Wolfville, N. S., using 50 watts. Another 50-watt station I logged was WEXL, Royal Oak, Mich. I would advise Eugene Delmore who wrote you in November issue to try this Tobe Filterizer and to increase his aerial to at least forty feet, the length I use. I have my receiver and the shielded lead-in grounded to a ten-foot pipe driven in the ground and the Filterizer unit is connected between the receiver and electric power supply grounded to a water pipe. This gives best results."

Delco Interference

From O. L. Hart, 251 Walnut Street, Greenville, Ohio, an agent for the "Delco" products, comes the following information: "On page 4 of the December issue, you describe the Delco radio which was placed on the market in August, 1931. In March, 1932, the B battery 140 volt was discarded and replaced with an electrifier operating off 32 volt pulling 32 watts and producing 140 volt current, making a complete 32 volt electric receiver. In August 1932 new models came on the market including a 7-tube superheterodyne in two models with twin speakers and single speaker; also two models for 110 volt a. c. 9-tube. On page 20 of the December number someone asks about Delco interference. I wish to inform you that the Delco Appliance Corp. of Rochester, N. Y., gave to their dealers a set of interference



Big Chief Harry Reser and a few of his tribe of Eskimos ready for their seventh radio winter. Cliquot Club program NBC-WEAF Fridays, 9:00 p.m. EST

eliminators for Delco lighting systems and power motors. If this Delco user will just go to his Delco service man he should be able to get the required eliminators."

"DX fans bothered by man-made static," suggests George Fabian, 1463 Virginia Park, Detroit, Mich., "may be interested to know that a G.E. noise eliminator kit greatly improved the operation of our 1932 G.E. 12-tube receiver. The kit is not a 'cure for all' but troubles are minimized and sixty hours of DX brought 43 new stations."

With the DX Clubs

Ray LaRocque, 135 Highland Street, Worcester, Mass., Chairman of the Courtesy Programs Committee of the New England Radio Club, sends us some interesting information in regard to the activities of that organization. The Club meets the last Saturday of each month at 306 Main Street, Worcester. DX tip sheets are mailed to all members twice a month

from September to May and once a month during the summer. The dues are \$1.50 yearly and no set number of stations is required to be logged before joining.

"A group of us fellows have organized the Greater Chicago DX Club," says Irving R. Butler, 3759 N. Laverne Ave., Chicago, Ill. They pass on to us several tips of DX programs which unfortunately reach us too late to serve our readers. It is necessary for us to have notice of DX programs by the fifth of the previous month in order to be sure of getting them in our DX calendar.

After serving the Buffalo Evening News DX Club for several years as Secretary-Treasurer, Mrs. M. L. Ellis has resigned and Keith L. Freas, 400 Fargo Ave., Buffalo, N. Y., has been elected to that office.

That 915 Mystery

"For the benefit of Paul Cintrat and Raymond Bell, their Spanish station on 915 kcs. is most likely CMCD. I always pick him up there," volunteers L. E. Wallace, 110 N. Duval Street, Tallahassee, Fla. But I. E. Beitman, 249 Gates Ave., Elyria, Ohio, thinks this "mystery" station on 915 is CFLC, Prescott, Ont., whose announcer, he states, speaks in French which might easily be mistaken by some listeners for Spanish. "Count me as one who has received the mystery station on 915. It could hardly be TIGR with a one-tube set. This Spanish station occasionally comes in very distinctly," adds Ivor H. Nixon, 265 Pacific Ave., Toronto, Ontario.

"The Spaniard inquired about so much on 915 kcs.," advises Earl R. Roberts, 105 Gomber Ave., Cambridge, Ohio, "is CMCD, Havana. I have noticed also that these Cubans are always off wave. CMCJ comes in on 1185 kcs. now; CMK on 725; CMC on 835, etc. Even those Canadians are getting that way now, as I always hear CKCL on 575; CFCA on 1125; CKCO on 885; CKPR on 895; CFCO on 1195 and HHK on 925.

CMCQ is usually on 775 also, and CMCB on 1055 where XES belongs."

"This business of stations not announcing is getting awful," complains P. J. Hauss, 221 S. Butler Ave., Indianapolis, Ind. "I listened to CJGX for an hour and CKY for one hour and a half before I heard a call. KWKC has started 'hogging' 1370 kcs. and rarely announces. They just say, 'We continue the program.'"

This is a Strong One

Page Lowell Thomas; here is an entry for his "Tall-Story Club"—a Mexican station so strong that the program came from a pair of disconnected headphones away up in Cincinnati.

"In experimenting with earphones on a Midwest 16-tube set, at 2.12 A. M. Wednesday morning, December 7th, several queer things happened," says Frank E. Switalski, 2819 Victoria Ave., Cincinnati, Ohio. "Both speakers were cut off by means of switches, and a pair of 4000-ohm headphones was lying on the table next to the chassis. Although the leads were close to the '46 tubes, they made no contact whatever with the chassis; but when the set was turned on, the speakers sizzled, the power tubes flickered until they almost blew out, and speech came from the disconnected phones. The volume was tremendous and I waited only long enough for the announcement, which was the new one, XEPN, Piedras Negras, Mexico, on 885 kcs."

Another Shake-up Coming?

The broadcasting band may be widened in a possible radio conference between representatives of the United States, Canada, Mexico and Cuba. If this is done, the sentiment of engineers is that it must be toward the lower frequencies and not the higher. Failure to effect a treaty will, it is held, precipitate a radio war which would bring chaos into the ether far worse than the nightmare

(Continued on page 32)

With the STARS and STOOGES

By "BETTY"

ONE of the funniest individuals on stage and radio, Jack Benny, is a most serious person in real life. He seems continually steeped in worries. Whereas most of radio's comics have but one program weekly, Jack has his Canada Dry broadcasts on two nights a week. This, he says, would worry anybody; his fellow comedians who point towards one microphone appearance every seven days agree with him. Once, when asked why he doesn't crack jokes with his friends, he replied: "I'm too busy thinking them up for my broadcasts."

The Mary Livingstone of his programs is Mrs. Jack Benny. She and the stage were total strangers until her marriage six years ago. Then Jack, wishing to find something to keep her time occupied, gave her a "bit" in his act. She took to the footlights as an operatic soprano takes to the high notes. Like several other comedians' wives, she became a

"stooge" for her husband. For his first thirteen weeks on the radio last spring, Jack performed without "Mary," but she became microphone-struck. She pleaded for a chance on the air. Jack usually accedes to her whims and fancies, and this was no exception, and Mary made a hit with audiences.

The Bennys' closest friends belong to the theatrical and radio professions. They and George Burns and Gracie Allen are inseparable. Jay C. Flippen and the Benny Rubins also may be found at the Benny's Central Park apartment almost any night. When not engaged in working on his radio programs, Jack takes Mary to the latest shows. Her real name is Sadie.

His Fun is Work

When he works with his collaborators on his radio scripts, Jack wears his blue dressing-gown and paces up and down his living room floor. His grayish hair mussed, he resembles more the banker struggling with problems of finance, than a funny man reaching for gags. He never strives to amuse at rehearsals, but when on the air he is at his best—hat perched on head, and clowning all over the studio.

Jack was born in Waukegan, Illinois, on February 14, 1894. Benny was not his family name. That, he says, he's forgotten how to spell. His tag, in fact, has since undergone several changes. Once he was known to vaudeville patrons as Ben Benny, but this monicker caused him to be confused with a chap named Ben Bernie. Both played the violin and indulged in wise-cracks. This bewildered audiences and even bookers. So the present "nickel-back" comedian came to be addressed as Jack Benny. Now, in radio, listeners mix him up with Jack Denny, the band-leader, and to make matters worse



Jack Benny

for Jack Benny, his voice and Goodman Ace's (Easy Aces) are similar.

Jack lived in Waukegan for twenty years. He admits his early life was uneventful. The only really important things that happened to him, he reveals, are birth, marriage and radio. He first went into vaudeville as a violinist with a piano-player. The act was known as Benny and Wood. They played around Chicago and were moderately successful. With the advent of the war, he joined the Navy at the Great Lakes Naval Training Station. Instead of seeing the world, he saw the country, touring the theatres with a Navy show for the benefit of the Seaman's Fund. After the war, when he returned to vaudeville, he kept adding jokes to his violin routine. Soon the fiddle became only an added attraction for Jack, now a full-fledged master-of-ceremonies. After a tour, he opened at the Palace Theatre, New York. His success on Broadway resulted in a contract that called for engagements from coast to coast, landing him in Los Angeles, where he first met "Mary." Several years later, when in Chicago, he happened to meet "Mary" again and they happened to get married.

Into the Movies

Then came a period when he served under the Shubert banner in "Great Temptations." Afterwards, he opened at the Orpheum Theatre in Los Angeles as master-of-ceremonies, where his smart humor became very popular. Then he was engaged by M-G-M for pictures, appearing in the "Hollywood Revue," "Chasing Rainbows" and in "The Medicine Man." Back to New York and Earl Carroll's Vanities in which he was starred. Later he played an engagement in England, where he found the audiences very responsive to his type of wit. Back in this country, he toured with Vanities, suddenly decided that it was about time he tried radio, and asked for his release. This was given and he returned to Manhattan to prepare for a long siege of auditions. But he only gave one sample of his

work and was signed by Canada Dry. This was last May. He clicked from the start. And now, on the Columbia network, backed by the tunes of Ted Weems' Orchestra, he is continuing to click.



William O'Neal

William O'Neal is the latest contribution to the ranks of radio stars from the State of Louisiana. Born in New Orleans twenty-seven years ago, Bill O'Neal was the fifth of nine children. With four to the right of him and four to the left of him in the family line-up, he says there is ample explanation of the fact, that he's a middle-of-the-roader. His father was an hotel owner, so the youthful William early came into contact with various kinds of entertainment, and no sooner had he been taken to the opera than the ambition to appear on the lyric stage possessed him.

He did not, however, take the shortest cut to the fulfillment of this ambition. In the first place, it was not a very stable desire, for it vied with a yearning to become a fireman—explained by the fact that he liked fires. When his parents talked him out of this and a career as a singer seemed somewhat impracticable, Bill

decided to take up electrical engineering, and it was with transformers and rheostats in mind for the future that he entered Louisiana State University.

His singing advanced more rapidly than his knowledge of electricity, however, and both were superior to his performance on the gridiron. He played football, and with his physical set-up—his 200-odd pounds are distributed along more than six feet of length—he should have been a success among the scrubs, at any rate, but a bent and broken nose made him get out of the game and stay out.

The Singing Electrician

Soon after his graduation from L. S. U., Bill found that as an electrician he sang successfully and well. Friends in his work paid him the left-handed compliment of telling him he "ought to be in the opera"; the people who heard him sing in churches, at club musicales, at charity events and college reunions told him the same thing. Eventually, he set out for New York and submitted himself for an audition with the Shuberts. He got the job and was picked to understudy for Walter Woolf in "The Lady in Ermine." From this he graduated to "May Flowers" and "The Desert Song." After touring this country and the Continent in these plays, and appearing in "The New Moon," he turned to vaudeville, and was equally well received.

During the run of "The Desert Song" Bill made his first broadcast at a benefit performance and was scared stiff of the mike. When he joined the Columbia Broadcasting System constellation he still objected to singing before the "dead pan gadget," preferring an audience to warm up to. Gradually he's overcoming this aversion, but he still likes to have an audience in the studio while he is on the air.

William O'Neal is now being co-starred with Col. Stoopnagle and Budd on the weekly Pontiac broadcasts over the C. B. S. Thursdays at 9:30 P. M. EST.

How They Got Into Radio

Ruth Etting, who has never given an audition in her life, was invited to make "Music That Satisfies" on the basis of her work on the stage, in the movies and on recordings.

Irene Beasley entered broadcasting for the purpose of "plugging" a tune she had written.

It was no break that got Georgie Price in radio. He spent eleven months and dropped \$25,000 in vaudeville salaries trying to break in to broadcasting. Eventually he got an audition from a man who had never heard of him.

George Burns and Gracie Allen first broadcast when their friend, Eddie Cantor, invited them to appear on his show.

Ted Husing hurried to New York because his father was undergoing an operation. While in Manhattan he saw a newspaper advertisement for an announcer.

Chase Taylor was sitting with his feet on a desk in a Buffalo station when his friend, Wilbur Hulick, an announcer, rushed in and asked him to help fill fifteen minutes because the network line had broken down. At that moment "Colonel Lemuel Q. Stoopnagle" was born.

Connie Boswell and her sisters won a newspaper talent contest for children. The prize was a week's appearance on a New Orleans station.

Jay C. Flippen was toastmaster at a banquet that was broadcast, when someone phoned and asked if he wanted to go on the air regularly.

Andre Kostelanetz first got into radio when he was called at the last minute to play the piano as accompaniment for Bonelli, the opera star.

Editor's Note—Since "Betty's" article was written, word has been received that the Canada Dry program featuring Jack Benny and Ted Weems' Orchestra on the CBS will go off the air January 26th. No reason for the discontinuance of this popular program was given. Jack Benny has notified NBC of his willingness to accept a program on that network.

The Monthly RADIO CLINIC

• • • by the TECHNICAL EDITOR

I HAVE a Majestic model 72 receiver which is badly troubled with local electric static received through the lighting circuits and from a trolley line nearby. The set also seems to lack selectivity. What do you recommend?

We believe you can improve reception by utilizing one of the line filters now on the market. The October issue (page 6) of RADEX has a description of a very good device to eliminate troublesome electric noises coming over the electric lines.

It appears that you have too large a spread over your dial when powerful stations are received, for from 40 to 70 kilocycles range is proof of a lack of selectivity. Shorten your aerial to about 40 feet. There are several types of wave traps that should give some aid in making the tuning more selective. All wave trap devices have some use indicated when reception is unusually broad.

Re-Tubing the Philco

I wish to replace the older tubes in my model 86 Philco with the latest types of tubes. Is this practicable?

The present -26 tubes in your set cannot be replaced with newer types, but the -27 should be replaced with the new type 56. The two -71s in push-pull can be replaced by two pentode -47, if use is made of a pair of suitable adapters which can be procured at radio supply houses. This set of adapters is arranged so that the filament of the -47s are connected in series, for each -47 takes only 2.5 volts, while a single -71A takes 5.0 volts. The screen holes of the top of the adapter are connected through to the plate prongs; other connections go through. The adapters, therefore, have 5 holes in the top and 4 prongs beneath to fit into the -71A sockets. The amperage of the two new -47s is

in excess of that required for the old -71As, and some drain and heating may result in unsatisfactory operation of the powerpack unit.

Also, you may use two -45s in the push-pull if you change the filament connections to the sockets so as to have the two -45 filaments in series instead of parallel as at present. The current drain will be somewhat less than when -47s are used, but the value of the -47 over the -45 is well known.

New Tubes in Radiola

I have a 7-tube Radiola 33 receiver and desire to replace the older tubes with newer ones, if practicable. Please advise me.

You cannot substitute for the -26s, since they use only 1.5 volts each while the newer ones require 2.5 volts. This would require a rebuilding and readjustment of the powerpack unit of the set. The -27 type tube should be replaced with a 56 which will fit into the same socket, and take less current.

The -71A may be replaced with a -47 by using a proper adapter. There is a 5-hole 4-prong adapter which has a resistance in series to reduce the 5 volts used on the -71A tube to 2.5 volts necessary for the -47 type.

Short Wave Operation

Can a Crosley Show-Box receiver be changed into a short-wave receiver? Where can I get an a.c. short-wave adapter (not converter) to use with this set if it cannot be rebuilt?

The Crosley Show-Box model 706 receiver is not so well adapted to short-wave conversation. This always is a difficult feat for it calls for practically an entire rebuilding and rewiring. We are of the opinion that short-wave kits for building a proper receiver can be purchased as cheaply as rebuilding an old set at this particular time.

There is a device known as the A-C

Dayton Fleweling short-wave adapter which is being sold for approximately five dollars. Try the Federated Purchaser, 25 Park Place, New York City, N. Y. This small adapter should work nicely with your set.

Pentode Power Tubes

In making what is known as the "Megadyne" one-tube pentode loud-speaker set using a -38 power tube, can I substitute a 2-volt tube instead?

While not being familiar with this circuit we see no reason why a -34 pentode power tube cannot be used in place of the -38 pentode of the 6.3-volt series when building this set. But a 15-ohm rheostat must be placed in series between the tube and battery when two dry cells of 3 volts are used on the filament of the -34 pentode tube. The -34 has a 4-prong base with the cathode and suppressor grid tied together to the -A side of the filament. Your circuit calls for this arrangement, and there is no difference in this respect between the type -38 and the type -34 tubes.

Hum and Weak Signals

When I touch the trimmer condensers of my Philco 87 receiver a loud hum takes place. Does this indicate that a readjustment is necessary? Also, the set brings in stations best between 700 and 1500 kilocycles. What is the reason for this?

When you touch the compensating condenser in your set you ground the lead connecting this plate to the grid of one of the tubes, most likely the detector. An instant hum is created, as is always the case when the control-grid lead is not well insulated.

Your reception of weaker signals below 700 kilocycles on the dial is more or less natural. These are the longer waves, and stations are fewer and less energetic in this section of the dial. No set brings in as many stations as they do between 700 and 1500 kcs. While such is a natural result, it may also indicate that readjustment should be made by a competent service man. See page 22 of the June issue of RADEX.



The Songfellows of the Armour program, Fridays at 9:30 on the NBC-WJZ

Phones, Aerial and Static

I have a Crosley model 603 receiver and wish to know how to use headphones with the detector tube. Also, what is the best aerial wire, and how can I stop static created by my 6-volt wind-mill driven electric generator?

We believe you can use headphones in the plate circuit of the detector tube of your set without adapters, condensers or an output transformer. An adapter may be more convenient. If you wish more power you may connect a 1.0 mfd. fixed condenser to the plate terminal of the power audio tube socket and place the phones in series between this condenser and the ground or -B end of the circuit. The primary of the output transformer must not be changed since this circuit provides the high voltage B current to the tube plate, but if a speaker is connected to the secondary, a switch may be placed in the circuit to cut out the speaker voice coil.

A solid copper wire, about number 12 or 14, is sufficient for an aerial.

Stranded wire of the same size is more flexible and stronger, but it holds more ice and sleet in winter. There is no advantage in using peculiar types of antenna wires. An aerial about 100 feet in length in regions where there is little interference is all that is necessary.

Polish the commutator and brushes of your 6-volt wind-mill driven electric generator so excessive sparking does not take place. Connect two 0.5 mfd. fixed condensers in series across the two wires leading from the generator, and place a grounded wire to the series connection between the two condensers. Shielding of the entire generator in a grounded metallic box will also help. If the dynamo is driven by a friction belt then the frame of the machine must be grounded.

Phones With Bosch Receiver

Will it be safe to connect headphones to my Bosch model 58 tuned radio frequency receiver, and if so, how can it be accomplished? What is the proper way to cut out the speaker without unbalancing the receiver?

The proper method of cutting out your speaker without causing any maladjustments in the set is to open the voice coil lead and insert a small switch. This causes no change in the output plate current or voltage elsewhere in the receiver. When an audio stage precedes the final output a headphone adapter is not advised in connection with the -45 power sockets simply because enough power already is available at the output of the first audio amplifier. No strain will be placed on the powerpack unit by this method, of course, if it should be used, but there is constant risk of overloading and heating the headphones and coupling condenser. It is sufficient to connect headphones to the socket of the first audio tube, and, in fact, usually to the detector tube. The added power of the audio tubes does not increase the sensitivity of the set to signals that cannot be heard through the detector tube.

Short Wave Converter

I have a Stewart Warner model 301A short wave converter which I use in connection with a Bosch broadcast receiver. It does not bring in any stations between 42 and 50 meters, yet seems to work fairly well on the other wave lengths. What can be done to correct this defect?

Your receiver is acting in accordance with the usual principles of radio, and without changing the design of the equipment you are using, no great improvement can be expected. We assume that the circuit with converter attached is equally sensitive over its entire operating wave band, yet, there is no proof that good signals can be expected on all waves. Aside from the natural causes for unreliable reception there are other factors which enter into the problem. Self-resonance of the antenna and associated circuits may seriously attenuate certain bands of frequencies, and in fact, it is almost impossible to design any radio receiver or circuit of wide-band coverage which will not favor or disfavor some frequency band. It is im-



Marian Anderson of the "March of Time" on the CBS Fridays at 8:30 p.m. EST

possible to advise as to the exact electrical constants which are causing this band loss. It may be overcome to some extent by the use of a variable condenser in series with the aerial, but, then, the tuning of the converter may require some readjustments that will throw the dial out of alignment for other established wave bands and cause variations in the permanent station log.

Where Is Audio Tube?

Can you advise me which tube is the first audio tube in my Kennedy 9-tube receiver? Also, what is the output transformer and how should it be connected back into the circuit from which it has been dismantled?

The Kennedy receiver you own is, we believe, the old model 80 "Royal." It has four -26 tubes used in the radio frequency circuit; one -27 detector tube; one -26 first audio amplifier tube; and two 71-As in push-pull power amplification. So, then, the only -26 tube, between the -27 detector and the two -71As, is the first audio stage tube.

The transformer with a three-tap input coil and a two-tap outlet coil is the output transformer. The two wires coming from the two plates of the two -71A tubes in the push-pull audio stage are connected to the two outer terminals of the primary of the transformer. The 180-volt line connects to the central terminal. The two terminals on the secondary side go to the voice coil of the cone of the loud speaker. There are, also, two other leads from the powerpack to connect to the field magnet coil of the speaker.

Our Short-Wave Adapter

I built the short-wave adapter described in the May, 1931, issue of RADEX. It does not oscillate well. Is the choke coil connected properly? It seems to me different from the usual method. I am using 23 plate condensers in the circuit. Are they too large?

The plate of the -21 detector tube must connect directly to the tickler coil. The choke coil is incorrectly



Out of the eerie pages of Sax Rohmer's novels, the sinister Dr. Fu Manchu comes to life in the person of John C. Daly, CBS Mondays at 8:30 p.m. EST

shown in this path. It must be separate, and is connected to the plate and then to the plate prong of the adapter plug which is to be inserted in place of the -27 detector tube in the broadcast receiver.

You have too much capacity in the variable condensers, and especially the one used to control regeneration between the tickler and the cathode of the -27 tube. Remove all plates on the rotating part except 5 from the far end. The 23 plates now in use are far too many. This change permits of easier motion and less noise, as well as the clearing up of the voice signals.

In case you fail to get good oscillation try reversing the two wires leading to the two ends of the tickler coil. Very often failure of oscillation is due to reversal of tickler coils. If the set then persists in too much oscillation remove a few turns of wire from the tickler coil, or remove still another one of the rotor plates of the oscillation condenser.

The Tubes in Majestic 20

I have a Majestic model 20 chassis

receiver, but it seems to be impossible to locate the tubes in the set from the wiring diagram, because there are several tubes of the same type in the set. Can you describe and locate the different tubes in this set?

Stand at the back of the receiver with the chassis in front of you but with the dials and front away from you. The type -27 tube in the upper left-hand corner is the oscillator; the -51 tube in the lower left-hand corner is the intermediate frequency tube; the three tubes in a row extending across the center in a line away from you are: The -27 farthest away is the second detector; the middle -51 tube is the first detector; and the -51 tube nearest to you is the radio frequency. At the right are the two -45 power amplifier push-pull audio tubes, and in the lower right-hand corner is the -80 rectifier.

Freak Reception

At times my set has brought in some exceptional distance. Is it possible that the A and B battery eliminators in use have made a superheterodyne of my set at these times?

The use of A and B eliminators cannot in any way make a superheterodyne receiver of your set if it is some other kind of circuit. The superheterodyne circuit is one that is of special design and cannot be created by outside influences. It may be that changes in voltage from the eliminators caused higher filament and plate currents and potentials at times because of some defective operation, and thus caused the tubes in the set to become more sensitive and powerful for a short interval. This, and other freak situations, are not uncommon in radio reception, and, when they do occur, tend to change the operating characteristics of the receiver without damaging the tubes and wiring.

Beat Notes and Inside Aerials

At times my receiver gives out throbbing and wavering signals. Why is this? I use an inside aerial and some radio men have told me that this is hard on my radio. What do

you think about it, and will it cause the quivering and fading just mentioned?

The wavering and throbbing—beating—of incoming signals, which often cause the radio speaker to sound as if he were covering his mouth with his hand at rapid intervals while talking, is due to a "beat" phenomenon. When two stations are being received on almost, or, in fact, the identical wave length, they interfere and cause beats. For instance, a station on 1460 kilocycles and another on 1461 kilocycles cause a frequency difference of 1 kilocycle or a beat whistle of 1,000 cycles per second. This carrier wave, modulated at a lower frequency, will therefore throb at a lower frequency, often about two or three beats a second. Music or voice will rise and fall in volume at a rapid rate and appear meaningless. If all stations operated *exactly* on their assigned frequencies, with 10 kilocycles separation, beats of this character would be almost unknown, provided the radio set was reasonably selective. Then, too, harmonics and other interferences, cause throbbing, wavering reception of signals and interfering whistles and hums.

The inside aerial cannot in any way be hard on your radio set. It is likely that your advisers intended to convey the belief that an inside aerial, because of its small pick-up capacity, delivered a comparatively weak signal and therefore made necessary the advancing of the volume control to obtain signals equal in strength to those received by larger, outdoor aerials with less advance of the volume control and, consequently, less power consumption in the audio stages.

More DX Tips

The Transcontinental Radio DX Club advises us they have arranged with LV1, San Juan, Argentina, for a special DX program on 1430 kcs. with 500 watts, Wednesday morning, February 1 from 3:00 to 5:00 a. m. EST.

They are arranging a "Missouri on the Air" for the morning of February 4, "Rocky Mountain on the Air" for the morning of the 11th, and "New York on the Air" for the mornings of the 18th and 25th.

FROM OVER THE PACIFIC

• • • On the B. C. Band

MOST of our reports of the reception of Trans-Pacific stations come from our West Coast readers, but this month we are starting off with a couple from the Atlantic side.

"Australian reception has been remarkable here from September 6th to November 5th," comments Clyde W. Ham, 1002 So. Lafayette St., Shelby, N. C. "I have heard the following stations in that time: 2UW, 4BH, 4TO, 2HD, 4BC, 5CK, 4QG, 2CO, all are new to me. I also heard a very weak station in New Zealand, on 820 keys., October 8th. They were broadcasting a wrestling match. I have written to both 3ZE and 3ZR, listed on 820 keys. My tenth verification from Australia was 4BC, and it was the nicest letter I have had the pleasure of receiving from any station. I would be very glad if you would print it for me to show your readers how much a station likes to get good reports. Here is the letter from 4BC:

"Dear Sir:

"We have your favor of the 6th of September reporting successful reception of the old time dance programme broadcast by this station on September 6th on 1145 k. c. the time mentioned, and relayed from the Trocadero Dances, South Brisbane.

"As this station only uses 600 watts aerial dissipation, your reception was remarkably creditable, particularly considering the seasons prevailing, and we congratulate you on your excellent reception.

"Further adjustments have been made to our transmitter within the course of the last few weeks, and we would be glad to have further reports from you on receipt of this letter, if you pick up our transmissions again, and any comparisons you would care to make with the reception of September 6th would be useful to us.

"Many thanks for the dime, which we have handed to the manager of the Trocadero Dances and he has framed it as a memento of the reception of the music from the dance hall so many thousands of miles away. Yours faithfully, Chandlers Broadcasting Service, per R. F. Roberts, Manager."

"I note with interest," comments Wm. E. Johnson, Vinalhaven, Maine, "that quite a few of the listeners are

picking up Australia, so I wish to state that on the mornings of November 14th and 15th I received my first Aussie. This was 2BL, and since then I have heard a few others but not good enough to warrant trying for a verification. The past three nights I have been getting 1BC between 6 and 7 P. M. I was surprised with their volume. These are my first real good catches, and other catches this winter are KJBS, KGFJ, KWSC and CKCK. For the benefit of other DXers who may be interested, I use a Radiola 20 with four tubes, using headphones and I use but one 45 v. B-battery. When regeneration doesn't handle well on weak signals I cut the plate voltage on my detector to 22½ v. My antenna is 150 feet of No. 14 bare copper wire between poles 40 feet high and about 60 feet more of lead-in.



Bernardine Flynn and Arthur Van Harvey in "Vic and Sade." Every weekday at 9:30 a. m. EST on the NBC-WJZ network

My ground is copper buried four feet in the soil."

"This winter up to December 16th I have WKAQ, KGU, 5CK, 3AR, 4QG, 2UE, 4RK, 2BL, and 4BC all verified," writes Jimmy Blake, Box 868, Kenora, Ont., "2YA and 4BC come in best. One morning I had 2YA coming in with almost as good volume as WGN; in fact, I thought it really was WGN testing."

"Here is a real DX tip," suggests Earl R. Roberts, 105 Gomber Ave., Cambridge, Ohio. "VQ7LO broadcasts a special DX program the first Tuesday of each month on 750 kcys., from 3 to 4 a. m. EST. That would be broad daylight there, so I doubt if it will come in. Am very pleased with my RADEX map of the world and time converter. Sure is a great invention. Seems to me that RADEX gets better every issue. Wish there were 100 pages. That time on the air is one of the handiest features of all and certainly helpful."

And now back to the West Coast. OK California!

"This season so far I have received the following New Zealanders," reports Don-H. Townsend, 1421 Arch St., Berkeley, Calif. "1YA, 2YA, 3YA, 4YA, 2ZD. I had already verified 2YA and I have written the other four and expect verifications back any day now. I received, about three weeks ago, a verification from JOLK so I now have the following Japanese verified: JOAK, JOCK, JOFK, JOGK, JOIK, JOPK, and, last but not least, JOLK. I have written JOHK, JOBK, and JFAK several different times, but have never had even a reply to any of my letters, but am still trying."

"I have been DXing since December, 1930, but this is the first time I have ever written to RADEX," admits Frank Macedo, 1011 Burdette Ave., Victoria, B. C. "I use a two-tube battery set but I have gathered quite a few veries with it. Some of my best include HIX, HHK, 1BC, 2YA, JOAK, JOCK, JOFK, JOIK, JOLK, JOPK and XGOA, China. Many of your readers may be receiv-

ing this new 75,000 watt Chinese in Nanking and not know it because of similarity to the Japs. They sent me a very nice verification." Mr. Macedo sends us the daily schedule of XGOA. It is typewritten in English and shows the station on the air from 8:00 a. m. to 10:00 p. m., Nanking time. Nanking is in Zone 42 on the RADEX Time Converter. The daily features are varied, including news, foreign and Chinese music, code practice, talks on radio, the home, electricity, agriculture, language, stories for children, talks in English and Japanese—a very well balanced daily program. The station operates on 440 meters (about 680 kcs.).

"I have received six Japanese stations in one morning," states Louie Sani, 307 Eleventh St., Sacramento, Calif., "JOCK, JONK, JOGK, JOIK, JOAK, and JOHK, all verified. I also have KGU, 2YA, CMK. I hear Casper, Wyoming, every night. I now have a total of 236 on my 8-tube Earl radio."

That Filipino

And here are some reports on the "K" station in the Far East:

"As to KZRM, Manila," writes Fred Pheasey, Inverness P. O., Skeena River, B. C., Canada., "this station is hard to get and static is usually bad even when Australia and Japan are as clear as locals. Have picked him up about 2:30 a. m. PST, playing recordings between announcements in favor of local advertisers. For the benefit of eastern listeners who have not had much success with trans-Pacific stations, I would suggest the following as easiest to pick up almost any night after about 1:00 A. M. PST, when most of the b. c. stations on this side have signed off for the night: VK4QG, Brisbane, Australia, 760 kcys.; VK5CL, Adelaide, Australia, 730 kcys.; ZL2YA, Wellington, N. Z., 720 kcys.; 5CK, Crystal Brook, Australia, 635 kcys.; JOAK, Tokyo, Japan, 870 kcys.; JOFK, Hiroshima, Japan, 850 kcys.; JOIK, Sopporo, Japan, 830 kcys.; JOCK, Nagoya, Japan, 810 kcys.



Roxy (S. L. Rothafel) Radio Impresario and Showman Extraordinary, in full charge of "Radio City" broadcasts with his "gang" every Sunday at 12:15 p.m. EST over NBC-WJZ

Many others can be received, but do not appear to be such consistently good performers, at least in my experience.

"May I commend your very fair presentation of the case for real DX? Anyone who has spent much time at this knows that the power rating of a station is of little consequence compared with the influence of freak weather conditions and a location and installation favorable to reception.

"Seattle, Portland, Tacoma, Los Angeles and San Francisco are practically on the same air-line from this spot, yet note the following peculiarities in reception. I have held Seattle stations all day only to lose them completely after sundown, when reception from California is strong. I have received KOMO, Seattle, when KJR in the same city faded out completely, and vice versa. Some days Seattle is strong and Portland and Tacoma, both near by, are quite inaudible, and again vice versa. No one dare say what is or is not possible in radio reception, at least, no

one but a novice without experience."

"Just to let you know that on Saturday morning, November 19th, I received KZRM, Manila, P. I.," says Raymond Corbett, 619 12th St., Sacramento, Calif. "The time was 3:58 A. M. Reception was clear, but not very loud. In my opinion anything is possible in radio, and I thoroughly disagree with any DXer who believes the contrary."

"In regard to KZRM," postcards Homer G. Gosney, 431 S. Elena Ave., Redondo Beach, Calif., "I have their verification in the form of a blue card under date of June 2, 1930, which is receiving date here. I logged this station in May, but unfortunately I have destroyed the date. Mr. A. E. Armstrong, Glendale, Calif., and myself played KZRM the same morning and compared notes. Why bother with them if they are not interested to hear from the American fans?"

The Radio Map of North America is now reduced to 15 cents.



Roy Atwell is the fellow who gets his tongue all twisted up in the "Bath Club" Sundays at 9:00 p.m. EST on CBS-WABC. If he wanted to say "Show this lady to a seat," it would come out "Sew this lady to a sheet"

Among the SHORT WAVE COILS

••• *DXing in H. F.*

MANY plaintive calls for help come to us from shortwavers who are unable to bring in foreign stations. Too many people have been led to believe that if they will only buy a s. w. set, foreign stations will come tumbling in at a turn of the dial. Successful reception of the signals on the higher frequencies is an entirely different problem from b. c. tuning. The dials require most skillful manipulation and everything about the receiver must be in the best possible condition. An aerial which may be quite satisfactory for b. c. logging may be entirely inefficient in the short waves particularly with the distant foreign stations. In this issue we are publishing an article on s. w. antennas which we hope will be helpful.

Big changes have been made in the British s. w. system. "G5SW, Chelmsford, the Experimental station of the British Broadcasting Corporation" is a call that will never be heard again. On Monday, December 19th, the new Empire s. w. station at Daventry, England, transmitted the first program of the Empire broadcasting service, replacing the experimental service given by G5SW for over five years.

Two powerful s. w. stations have been erected by the BBC at Daventry which will use a complicated system of directional aeriels. The Empire has been divided into five zones and different programs will be arranged for each zone. These programs will take the air over the particular antenna designed to reach the zone for which it is intended. According to World-Radio, the publication of the BBC, eight different wavelengths will be used, each of which will use a special call as follows: GSA 49.6 m. (6045 kcs.); GSB 31.5 m. (9519 kcs.); GSC 31.3 m. (9570

kcs.); GSD 25.5 m. (11760 kcs.); GSE 25.3 m. (11852 kcs.); GSF 19.81 m. (15.140 kcs.); GSG 16.9 m. (17740 kcs.); and GSH 13.97 m. (21465 kcs.) The five zones are Australia, India, South Africa, West Africa and Canada. The times of broadcast are as yet purely tentative.

"I received your very thorough description of my set and your instructions for improving the short-wave adapter," remarks E. L. Merten, 315 E. Fountain St., Colorado Springs, Colo., "and I want to thank you for the trouble that you went to and to tell you how much I appreciate it. I have connected the Kennedy, as you said, and it works great! I wound a coil, as you said, for the 25 meter band, and at 2:00 p. m. on Thanksgiving Day I picked up W8XX on 25.25 meters. I am afraid that with only the last two stages of a



Tom Howard, the droll wise boob and his partner, George Shelton, who's wiser still. On the CBS Tuesdays and Fridays, 9 p.m. EST

Stewart-Warner TRF, it isn't enough amplification. I heard an amateur in Providence, Bowmanville, Montreal, and VE9CS, 100 watts, in Vancouver. Lots of amateurs, police, of course, one side of a phone to the Leviathan, and KEJ relaying to KGU. On the broadcast band, I have much better luck, for the Stewart-Warner 801 is pretty sensitive, for an old set. I have heard about 525 stations, 150 of these 100 watts or less, and 25 of these 50 watts or less. The best, I guess, is WEDH, Erie, when they used 30 watts. I have heard all states except Delaware, Vermont, Maine and Rhode Island, and all the channels. I have 40 in Canada, 24 in Mexico, and 9 in Cuba. I have letters of confirmation from RUS, WKAQ and VAS. Have heard 9 in Japan, and several in Australia, with letters from 4QG and JOAK."

The New Panaman

"While listening via the short waves this morning, Saturday, December 3rd," comments E. A. Wright, 10 Esther St., Brantford, Ont., "I heard a station, the call letters of which I believe were RXT. This station was heard at approximately 11:15 A. M. EST and they announced a great many times that the station was RXT testing with Miami. They gave their frequency as 14,485 keys. Could you please advise me if this station is listed and where I could write for verification? The radio I have is a Marconi 11-tube Model SW-27, and can certainly bring in the stations. Some of the short-wave stations I have received are as follows: VE9JR, VE9DR, G5SW, FYA, 12RO, GBW, GBS, WEL-WEJ, KKZ, GBB, GBC, W3XAL, W3XAU, W9XF and a large number of other American stations. We have listened to a great many 'hams' and enjoy hearing them as much as the regular broadcasts."

"In your December issue, Charles Horton reported hearing EAQ and WCCO with two sets on the same aerial," writes Carleton Lord, 137 N. Highland Ave., Akron, Ohio. "I think

I can go him one better by hearing WEAQ and VK2ME on the same set at the same time. Sound ridiculous? The explanation is simple. My set is a Silver-Marshall 726-SW and has two tuning controls, one for short waves and the other for the broadcast band. In order to listen to the short-wave end, it is necessary to set the b. c. dial at approximately 650 keys. and do the tuning with the other dial. If enough power is used and the b. c. dial is set to the exact frequency of some b. c. station, that station will come through in the background. Thus, with the b. c. dial set at 660 keys. and VK2ME tuned in, the two stations can be heard simultaneously on one receiver using one aerial."

"Have just recently purchased a Marconi SW-33 receiver," advises M. L. Griffith, Deaf School, Winnipeg, Man. "My first attempt at short waves and have had good results from the States and Canada, but have not been able to get foreigners as yet. On the long wave could not be better. Brings in 100-watters from 600 to 800 miles. Am using three aerials, 60 feet, 90 feet, and 110 feet. My 110-foot is 70 feet from the ground and is a straight single wire and is by far the best."

Grounds to the River

"I have a Pilot all-wave set, 7 tubes, and am wondering if such a set is powerful enough to receive foreign reception," inquires Ralph H. Heiss, Manitowoc, Wis. "This being my first real attempt to do some DX-ing, I would like to hear from someone who has a set similar to mine and as to their luck on short-wave reception. The set is new and I have a very good ground which is right in a river, which is supposed to be very good. I have two aerials running at right angles or nearly so, each about fifty feet in length, but separated by a switch so that I can use either aerial alone. Am using this set on a boat which is docked in the downtown district. Would the location have much to do with the re-

ception?"

"Just another line in appreciation of your magazine and the short-wave end of it," states Francis Orcutt, 127 South Ave., Penn Yan, N. Y. "I have DXed on the b. c. b. for three years, totaling 575 stations, all over the U. S., Mexico, Canada, Cuba, Porto Rico and Salvador and Dominica, and every state in the Union except that old sticker, Wyoming. This new season I have not done much on the old receiver due to a new attraction. For about a year I have been licensed with the call W8GWT. I wish you would publish my interest in short waves, and the fact that I have an amateur station. I will be glad to correspond with any interested fan either short or broadcast waves."

From Prince Edward Island

"Reception is good here on short waves," writes Anthony Arsenault, 9 Spring St., Summerside, P. E. I. "On a 2-tube home-made receiver using 230 tubes, here's a list of the farthest 20 and 75 meter amateur phones I heard: W4TM, W9ARK, W4ACY, W5ABO, W6CNE, W9CJJ, W9JI, W9FKE, W4MK, W9EGU, W4IB, W4AAD, W4WM, W4MU, W9CSH, W9GFQ, W9GXI, W4ZF, W9EKU, W9DHK, W4WL, W8DSO, W8UD, W4RS, W9HAV, W5ZA, W4LU, W4TR. I heard about 225 in all, but this is a list of the farthest ones. Here's a list of the six best amateur phones I heard: W1BIC, W2DKA, W3IS, W1BES, W8NE, W1AUK."

"Received a Canadian in the 160-meter amateur band broadcasting an organ program from 10:45 to 11 p. m. EST, and an orchestra from Toronto afterwards," reports Earl R. Roberts, 105 Gomber Ave., Cambridge, Ohio. "Faded badly and is weak. They are on the Central Canada network, but I have not yet heard their call. Picked them up twice lately on Monday night."

Many inquiries have been received in regard to the short-wave converter built by Edward C. Houlgate as de-

(Continued on page 33)

Substituting the New Tubes

THE flood of new radio tubes has raised a question that seems highly controversial to many radio servicemen. Readers of RADEX, as well as dealers and radio engineers, wonder just how far they may go toward the substitution of tubes such as 46s, 56s, 57s, 58s and 82s for -45s, -27s, -24As, -35s and -80s. There are many factors involved, and it is obvious that we cannot attempt to go into the special requirements of hundreds of models of receivers in order to advise what tubes can or cannot be substituted for older types.

Generally speaking, however, any of the new tubes can be used to replace older ones, except that adapters are necessary for all but the 56 type. And, of course, all the new types consume less current than the older, which means increased economy of operation. It is practicable, and usually profitable, to utilize the 56 in place of the -27 in most cases except oscillators. Even then this tube will perform satisfactorily, but there are times when, due to its characteristics, there will arise an unbalancing of some sets which will throw them into oscillation. The 56 is a good grid-bias second detector and audio amplifier, especially in resistance-coupled stages. In such circuits it is recommended as a substitute for the -27. However, it may be necessary in nearly every case to change the cathode bias resistor to one having a resistance of 3,000 ohms.

In general, it is not recommended that other new types be substituted in receivers designed for older tubes. The electrical characteristics of the 57s and 58s are somewhat different from those of -24As and -35s. However, substitutions may be made by means of adapters, but it will be too much to expect the improved results which the superiority of the tubes might lead one to believe can be at-

tained in old receivers built for older types of tubes.

To obtain the advantages of the new tube designs, radio receivers must be especially designed for the tube characteristics. It is then that super-results are obtained. But in t. r. f. circuits the 57s and 58s can be substituted if proper adapters are used, and the results will be equal to or slightly better than -24As and -35s. In some superheterodynes the 57 is best utilized as a radio frequency amplifier or a biased second detector. It is not recommended in any other positions. It cannot be used as a first detector. The type 58 can be substituted in radio frequency stages, intermediate stages, and also as a first detector. Neither the 57 nor 58 must be substituted in oscillator, automatic volume control, or audio amplifier sockets. It is seldom that 57s or 58s can be substituted for -24As or 35s, for the special adapter adds to the total height of the tubes and prevents their clearing the overhead shielding.

In the case of substitution of the 46 for the -45 there is no advantage in old receivers. The main purpose of the 46, in all class A power output circuits, lies in its flexibility of design, which permits a receiver to be designed with the least number of different types of tubes. The change is not necessary or recommended. Same applies to the substitution of the 82 rectifier tube for the type -80.

Too Much VOLUME

WE are often asked how one can get more volume but here is an inquiry as to how to get less! "Local stations come in altogether too loud even without an aerial," says George W. Otto, 447 Fourth Street, Beaver, Pa. "With an aerial the volume is so great that when I was in a sanatorium recently, I used one of your headphone adapters and connected up 75 sets of phones to it without any trouble." Mr. Otto does not say what receiver he uses but as the "local" stations of which he speaks must be those in Pittsburgh, 25 miles away, his set certainly has some pick-up. The only possible remedy for reducing the volume of local stations seems to lie in "de-tuning," that is turning the dial a mark or two off the correct reading. The fault with Mr. Otto's set evidently is lack of proper shielding. A set should be shielded so perfectly that with aerial and ground disconnected even powerful local stations should give either not a peep or the faintest whisper. When a receiver brings stations in without an aerial it is evidence of a fault and not a virtue. If it will bring in signals that happen to be wanted, it will also bring those in that are not wanted.



Buck Rogers and Wilma Deering watch the hypnotelevisor at work on the Mongolian Princess. A scene from "Buck Rogers in the Year 2432," a fantastic, imaginative tale a la Jules Verne, on the Columbia daily except Saturday and Sunday at 7:15 p.m. EST

Turning the Illuminated DIAL

• • • *With the Radexers*

"I PURCHASED a RADEX the other night and what is this DXing there is so much about in the log?" inquires a new friend, R. A. Mabe, Box 283, Ozark, Mo. "Please explain what it is all about. The fellows' records seem so interesting."

If Mr. Mabe and others for whom his inquiry speaks, will get the October issue of this magazine and read "Radio DX as a Hobby" and the November article on "Rules and Regulations of DX," they will have the whole story. A full description of the possibilities of radio as explained at length in these two articles, cannot be repeated here. But if they want to get the fullest enjoyment from their radio sets, they should read these two stories and then join our Radexers.

"I never knew DXing was so much

fun until I started buying RADEX," says James Reese, 2037 Seventh Ave., New York City. "DXing is fun, interesting and enjoyable. I have been DXing since October 12th and have logged 140 stations. I have a 5-tube battery set, using B 135 v. and A-battery. I use two speakers. The name of this set is W.K.O.W., King of Waves. I have a good antenna. It is shaped like a zeppelin, 50 feet long and 50 feet high, using steam pipe for a ground."

"I am ardent DX fan," confesses Alfredo Rozzundo, R. F. D. 1, Fayette City, Pa. "With my Apex 9-tube set I have received 430 stations in every state except Wyoming. I have never reached Honolulu, Porto Rico and Santo Domingo. Will someone tell me the best time to try for them?"

"I am only a beginner at DXing, having only started in October,"

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writes Dudley Clarke, 1962 Tupper St., Montreal, Que. "A friend of mine got me interested and I am now a confirmed DXer. My total is only 197, but I hope to increase it steadily. Have logged 63 new stations since October 24th. I operate an 8-tube Bosch Model 58 CB, and I am planning to purchase a Stewart-Warner SW converter. I'd be pleased to hear from any DXer who operates such a set and converter."

"Have been a DX hound for ten years," says Ross Huffman, 901 Main St. East, Hamilton, Ont., "Use a Philco 9-tube with Cameron loop antenna. Since October first have logged 223 stations, and, thanks to your DX calendar, CKX, Brandon, and CHGS, a 100-watter in Summerside, P. E. I. Would like to hear of DX program from Newfoundland."

"I have been pulling them in since broadcasting got fairly started," writes Lt. Donald M. Gildersleeve, 2518 Webb Ave., New York City. "WDY, Roselle Park, N. J.; WWZ, Wanamaker's, New York City; WDT, Ship Owners' Radio Service, Inc.; WNO, Jersey Journal, Jersey City, etc. In 1926 I threw away a log of nearly 400 stations. Began, just over a year ago, a new log that is now in process of rearrangement (cross-index) and which carries some 300 plus stations, with about 90 of 100 watts power or less."

From French Canada

"For a year and a half I have been very much interested in your RADEX," comments F. Gaston Fortier, C.S.E., 80 de Salaberry Ave., Quebec, Que. "I have it reserved every month at my newspaper dealer. I read it all over. The experiences of DXers mentioned therein are always more and more interesting. I must tell you the truth in saying that RADEX is the most interesting Radio Booklet I have found on our Canadian market. I had it adopted by two friends who now buy it every month."

"I am not an expert in any way, but I like very much to tune-in distant stations as far as my receiver

can take. After using a Radiola, Brunswick, Fada, and Rogers, I now have secured, since the end of September last, a 1933 Model 30-A Stromberg-Carlson 10-tube receiving set. The results with this set are wonderful considering our locality here. Since September 30th last, up to the 12th of December, inclusively, my list of broadcasting stations tuned-in total 310. I have already 8 Canadian provinces out of 9; 42 American states of 48; 3 stations from District of Columbia; one from Porto Rico.

"The weather conditions are not too bad here, but still it takes a strong set to reach very distant stations. This is why I find that U. S. recordmen are very much better situated in U. S. for the purpose of recording a great number of stations, considering the fact that, only in U. S., there are approximately 675 stations broadcasting. Do you think that my presumption is correct? Since four or five months I have taken the habit of collecting your RADEX issues instead of giving them away. I like to refer to them by and by. I hope they will always be as interesting as they are since the time I started to read them regularly."

Being an artist of no mean ability, Chas. L. Morgan, 800 East 179th St., New York City, draws his own individual verification stamps, each one of different design. He sends these to the station and asks them to sign them. Naturally this gives him a stamp book of unusual interest but we fear not many Radexers would be able to draw such attractive verifications. We would like to reproduce two or three of the designs but as they are in colors we cannot do so. Mr. Morgan has logged every state and the provinces from Prince Edward Island to British Columbia, Alaska, Hawaii and several countries in Central and South America. He still uses an RCA 5-tube battery Radiola.

Early Morning DX

"I rented an old table type Philco

7-tube superhet a week ago," comments Yeoman H. Condict, 130 N. Center College St., Yellow Springs, Ohio. "Am not in college this division so have plenty of time on my hands. Since a week ago last Saturday, I've logged 211 stations. Yesterday afternoon, logged Canton, N. Y. and Camden, N. J., new stations, and at 5 o'clock KSOO on Richmond's wave. Early this morning KGER, Long Beach, Calif., was very loud. I also received new KFAC, KECA, KFVD and KGfJ, of Los Angeles, the latter being the 100-watt perpetual motion station. As 6 A. M. approached I decided to get the sunrise programs. I listened for WABI, Bangor, on 1200 keys., but heard WIBX, Utica, instead. Up to 7:45 Texas was coming in well, a sunrise devotional service, from WACO and KFPL, a 100-watter of Dublin, Texas. I'll never hear that again probably. I listened on 635 keys. for Australia in accordance with the letter from the lady in Mississippi, but not a peep, although KGfI, Los Angeles, 100 watts, was swell. However, I heard the faintest of murmurs on 650 keys., but could not identify. My suggestion to DXers is that they go to bed early once in a while and get up at 5:45 to catch the sunrise programs. You hear 100-watters such as WSIX, WIBX, and KFPL, which may be hard to get otherwise."

Wants Station Honor Roll

"I now have a total log of 391 stations, of which 268 are verified," comments Rexford Newcomb, Jr., 605 Nevada St., Urbana, Ill. "I have logged every station in the United States on 41 of the 96 channels, all on a Trav-ler midget with a 4-foot copper wire as both ground and aerial. This fall, I logged and have since verified KGGM, Albuquerque, at 7 P. M. WILL broadcasts an hour of dance music from Bradley Hall each Saturday evening from 11 P. M. to midnight and keeps going until 2 A. M. the first Saturday night of each month. KGHI ruins DX on the 1200 key. channel for me every morning.

Wish they would shut down at midnight for about a month and give me a chance on that channel for a while. I think we ought to have an honor roll for such stations as WNBH, WAAT, KFWI, WGfI, KOMO and others that send very prompt and courteous replies to requests for verification. Since I started DXing I have written 282 letters to stations, including follow-up letters when necessary, and I've received positive verifications from 268 of them, so I think my postage is rather well spent. Can you name several short-wave converters suitable to operate with the type of set I use?"

His Greatest Winter

"This is the greatest winter I have ever experienced for DX work," says Wm. Ellis, Box 13, Hughson, Calif. "Any night (or rather evening) after 4:30 P. M. PST, I am able to listen to WBT, Charlotte, N. C., WGN, WLW, WOWO, WCAU, KMOX, WTAM, (with KGDM, Stockton, a local only 10 keys. away). After dusk and when it gets dark, well, the sky is the limit. WABC, WJZ, WENR, WEAf, etc., are like locals. I have heard WCCO announced as early as 3:45 P. M. PST. WHAS and WCCO are two favorite stations in our home. Several times I have heard a foreign station broadcasting between WTAM and WTIC. I wonder who he is? WTAM interferes too much to understand him clearly. It most certainly sounds like Spanish speaking. Perhaps some southern DXer may know of such a station. This cold weather brings in the JO's in Japan like locals. Any morning after 2:00 PST, eight to twelve of the Japs may be heard. I am going to start to verify them next week when I again listen to them. I have not considered verifying them before, but perhaps ten or eleven JO—verifications will look good."

Time Converter Helps

"For quick reference for time in other zones," remarks H. S. Trumble, Rt. 1, Box 147, Port Arthur, Texas, "the RADEX time converter dial is

certainly worth the money for radio and DX fans, and RADEX is absolutely indispensable to those who want to get the most out of radio. I heartily agree with Mr. A. Curror of Schenectady, N. Y., in that DX fans should mention make of receiver when writing in their DX catches. I am using a Philco 11-tube '31 model and have logged 257 stations since February 1, 1931. The Gulf Coast climate is not very favorable for DX reception. Only when a cold wave is on can we expect to have static-free reception. I am using at present a 4-wire bare copper, single strand, large gauge wire, wires spaced 16 inches apart on spreaders and 92 feet between spreaders, 34 feet high T-type antenna, with an Ollie Ross ground. My prize catch so far has been CHLS, 730 kcys., 50 watts, Vancouver, B. C., 2000 air miles from Port Arthur, Texas, on local switch, and it came in strong."

It Brought His Aussies

"I have secured the last two copies of your RADEX and find it the most complete and up-to-date publication of its kind," comments Paul F. Klingman, 88 Forsyth St. S. W., Atlanta, Ga. "In fact, I do not intend to be without it hereafter. The information is indeed helpful and was responsible for my tuning in one of the Australians two nights in succession, December 5th and 6th, the station at Northampton, call letters of which I do not have before me just now. While I have been a DXer for about nine years, I have not gone in for this very much lately until inspired by your first-hand information. During the past few weeks, however, I have not had my share of sleep, tuning for the weak stations and those of long distance. My best catch, along with the Australian, is 10-BQ, a 15-watter at Brantford, Ont. My log includes numerous west coast stations, some 100-watters, stations in Canada, Mexico, Cuba and Porto Rico."

Likes His "Gloritone"

"I purchased my radio, a 5-tube

midget set U. S. Gloritone made by the United States Radio & Television Co., on October 15th and since then have a log of 150 stations with only three nights of late dialing," reports Ruth E. Kroeger, 94 Burton Ave., Akron, Ohio. "My set is not an all-wave, but above 1500 on the dial I can go to about 1900. In this space I have police calls of Chicago, Cincinnati, Pittsburgh, St. Louis, Michigan police at East Lansing, and Massachusetts police. I also had W1XAU, the Boston Television station, broadcasting a program. I would like to hear from others who are using a U. S. Gloritone and what success they have had in distant reception. My most distant stations are CMAF, Havana, 500 watts, and CHRC, Quebec, 100 watts, several Mexican and about ten in California and the West Coast."

"It is a regular occurrence to receive CMC, Havana, each night, with strong volume, using a 15-foot No. 14 wire attached to antenna post and no ground," states Edwin F. Dreher, Box 26, La Mesa, Calif. "This area is so sensitive to radio impulses that elaborate aerials are a handicap. WJZ may be received at 4 P. M. as a local. WBAL's call invariably follows WJZ's. JONK, Nagano, Japan, 500 watts, is a good catch, using a 90-foot aerial. Tokyo (JOAK) seems much stronger on its new 590 kc. frequency than formerly at 870 kcys. XET, Monterrey, is also strong. With XER off the air there is a hairbreadth's difference between the channel of CKAC, Montreal, and CMK, Havana. Otherwise XER blankets a good many stations. The set used is an Edison C-2."

Ground Aerial Best

"I wish to answer Archie Ferrie and Stewart Stowell," says Albert C. Port, 37 Elm St., Salisbury, Md. "I've picked up W1XO and WEY, also WMP, WRDS and WBAK, police. Then WIEH, a portable transmitter which I've picked up several times, once on the Hudson River in New York, and another was at the Polo

Grounds. Then I also have 30 amateurs and 3 television stations on my log, all on a Crosley b. c. set, the Playboy. DXing since June and all told have 257 on my log. My best catch is KGHI on 1200, a 100-watter, at Little Rock, Ark. In this section an aerial is an encumbrance and a ground works best on aerial post."

"Since writing you last, I have increased my log from 356 to 414," writes Howard R. Garrett, 171 Hillsdale Ave., East, Toronto, Ont. "Some of my best catches are 4QG, YV1BC, WKAQ, KJBS, and KWG. In answer to Mr. Rosenberger's query in November RADEX, let me say that the call he heard was CNRO, Ottawa. CNRO is the key station for a number of chain programs that CFRB broadcasts. I have only Vermont and Wyoming left to log in the U. S. and would appreciate any tips on them. Also would some fan be good enough to tell me when WNBZ is broadcasting. I am interested in forming a DX club in Northeastern U. S. and Canada and wish some others would communicate with me with this object in view."

Only One Refusal

"I use an RCA 42 and in the past two years have received 422 stations with about 400 verified to date," writes Kenneth Vetter, 964 Waukegan Road, Deerfield, Ill. "Including all those which have replied I have had only one refusal to verify, which I believe is fairly good. My DX this year does not at all compare with last. I have had much trouble with man-made static caused by an electrical appliance of some neighbor. Among my best catches this season have been CKWX, 10-BI, KGGM, WLEY, KFSG, KTFI, CFCF and CFAC. These are not impressive and the twenty or so other are less so."

"With the help of your magazine I expect to increase my log of 225 radio stations to a greater number," promises Robert Osborne, Stellarton, N. S., Canada. "My best so far have been WKAQ, KFVD (250 watts), XEW, WCAZ (50 watts), CMCD, WALR, WJW, XER, CMX."

Long Antenna Helps

"The threat I made in my last letter to get 150 new stations this season is starting well," admits T. J. Johnson, Bowlegs, Okla. "I now have 31 new ones, including two more in Australia, and YV1BC which everyone else also seems to get. My new 200-foot antenna is a great help on the distant stations. Your DX calendar is getting better every month. Station KGFF, 1420 kcys., Shawnee, Okla., will broadcast DX tips including Newark News Club tips, every Thursday morning on their DX program, from 1:30 to 3:30 a. m. CST; the tips will probably go out about 2 a. m."

Trying for Europe

"I hear the Japs, Aussies, and Newzies once in a while," reports Meyer Tuchinsky, 3436 Filbert St., Philadelphia, Pa., "but can't get them as regularly as some people can, probably due to location. Have only one European, and haven't been lucky enough to hit another yet; still trying, though, as I have figured that there is one that should come in, since he is on a wave that is absolutely clear in North America after 1:30 a. m. EST. Station is in Stockholm, on 689 kcys., with 55 KW (input?)."

"I have logged over 300 stations on the b.c. band in the last three months," reports Steve Nemeth, 5326 Turney Road, Garfield Heights, Ohio. "My best catch is KROW, at 7 a. m. EST, verified. Plenty of 100-watters with KLCN using 7½ watts, and 10 BQ, 15 watts. Have about twenty west coast stations nearly all verified. Have tuned in a station on 760 kcys. that does not give any call letters. Have had it several times with the same result. I am using a Grebe 5-tube set now."

Good for a Midget

Six Radexers in La Grange, Ill., are in friendly competition with each other and each of them gets a big kick out of pulling in some station the others haven't got. One of them, Bob Wais, 51 N. Brainard Street, tells us he has a ten dollar midget with only

four tubes on which he has received 240 stations in less than a year. Among his scalps are the little tenner, WHBC in Canton, Ohio, CHML, 10BQ and KGFK with 50 watts in Moorhead, Minn.

"Wish to report an unusual DX daylight reception," postcards George D. Kitzinger, Piedmont Hotel, Atlanta, Ga. "On Thursday, November 3rd, at 4:20 p. m., CST, I picked up CKAC, Montreal. This is unusual because WSB, our local station, is on 740 keys. and I got Canada on 730 keys. with WSB going full blast. I stayed with CKAC until 5 o'clock. I'm using a Zenette No. 230 8-tube set, located in my room, with plenty of motors, streetcars, electric signs, etc., all around me."

"I recently purchased a new Lafayette ten-tube super," writes William E. May, 14 Burnett Place, Nutley, N. J. "I am using an aerial about 150 feet long and a cold-water pipe ground. I have no trouble in getting distance, and have added 46 new stations to my log since I bought the set less than a month ago, making my total 426. These include three 100-watters on the coast, a 25-watter in Saskatchewan, and about 12 other higher powered stations on the coast."

Some Prize Catches

"My total thus far is 465 stations," reports Charles F. Kyle, 392 Preble St., South Portland, Maine. "My two best catches of this season are WBIG and 10-BP. Have received KOB at last but still fishing for Nevada and Wyoming. In reply to the question of John R. Carter, Erie, Pa., regarding KFPM in the May RADEX, I received this station March 24th and in their letter of verification they stated they used only 15 watts during that test and received 89 reports on it."

"During the past year I have logged 381 stations in 45 states," reports Ken Boord, Box 255, Smithfield, W. Va. "Canada, Cuba, Haiti, Mexico, Porto Rico and South America. I have verifications from the most distant. These are some of my best ones: YV-BC, Caracas, Venezuela; WKAW, San

Juan, Porto Rico; HHK, Port-au-Prince, Haiti; VAS, Glace Bay, N. S.; CJOR, Sear Island, B. C.; CFBO, St. John, N. B.; XFI, XEW, XETY, XEN, XER, XEH, XED and XEB, Mexico."

"My log now stands at 329, including 3 Aussies, 1 New Zealand, 2 Japs, and 2 in Great Britain, received at 3 a. m. MST last March," reports Russell N. Johnson, 535 Ave. J No, Saskatoon, Sask. "Find on my R-32 10-tube b.c. receiver that the Aussies come in better after daylight in the morning, and just at sunrise about 5 a. m. Have four aerials and four switches hooked up with an aerial tuner, and can use each aerial separately or collectively as desired."

Likes DX Calendar

"Thanks to RADEX's reliable DX calendar I was able to log KGMB, Hawaii; CKOV, British Columbia; 10-BQ, Ontario; 10-AB, Saskatchewan; KPJM, Arizona, and KPCB in the State of Washington," comments Rudolph Kure, 3633 Vine St., Cincinnati, Ohio. "My log has reached the 700 mark. Received in this morning's mail my verification from KFXM, San Bernardino, Calif., 100 watts."

"I started DXing about January 8th and have 261 stations logged with 101 verifications to date," writes Jack Varner, 1114 Rugby Blvd., Roanoke, Va. "33 states, with 234 stations, 14 in Canada, 4 in Cuba, and 4 in Mexico, also 5 short-wave stations. I have a Victor R-15 7-tube T.R.F. set and would like to hear from owners of the same model, and any other DXer."

"Increased my list of 459 stations to 496 up to the time of writing," comments E. D. Petrie, 916 Dundas St., E., Toronto, Ont. "In the months of October. 16th to November 25th a total of 37 stations in about forty days DXing. Pretty good DX I think, don't you? Some of the best are YV1BC, KPCB, CKMO, KXA, XEF, KCRC, CMCU, CMBY verified. Am using a 7-tube Sonora C-34."

A Twelve Day Record

In twelve days Robert Rosenberger's

new Majestic 9-tube has brought in WKAQ, CMGA, CMCD, CMDE, CMBL, CMBN, TICR, CMGB, CPX (Bolivia), LR4 and LR6 (Argentine). He claims four kc. separation on distant stations and ten on locals, daylight reception of WFBL and 120 stations in twelve days. His address is 17 Janssen Place, Kansas City, Mo.

"Last year's record 597 stations, with the freak chances verified," says C. G. Colby, 92 West St., Concord, N. H. "Have logged every state but Nevada and Wyoming, and all wavelengths but 1340. Really enjoy DXing and find that RADEX is just the thing to help dig out the wanted DX stations. I use a Majestic No. 71."

Two at Once

"Have just logged KGEK, Yuma, Colo., and KGHI, Little Rock, Ark., both 100-watters and broadcasting at the same time," says B. L. Ahman, Jr., 3313 Westerwald Ave., Baltimore, Md. "I am waiting for a verification from each, as I could separate each station and yet hear both distinctly, although they are supposed to be on the same frequency."

"My reception so far this season has been excellent," says D. H. Shatzes, 45 Flax St., Delaware, Ohio. "New stations received are KGU, YV1BC, KGB, WENC, WHET and KCRJ. Looks like a great season. KGU is my most distant station. WENC is on every Thursday night after midnight CST."

"My radio is a homemade, 5 tubes, A.C. and have 344 stations to date," reports George J. Barmann, 232 West 2nd St., Chillicothe, Ohio. "My best catches are KGFJ, KERN, KDFN, KFIO, CHGS, KFVD and about 120 100-watters from coast to coast. I should like to correspond with readers of RADEX. Will answer promptly."

"I have a new Kolster 10-tube superheterodyne," says R. E. Stromberg, 24 Argyle Place, Arlington, N. J., "and have logged over 100 stations in two weeks; received stations from the west coast, KFI coming in the best; XER from Mexico, also other stations from the west, Mexico and Canada."

"I bring in CMK, XER, and most any station in the U. S., but not so many Canadian stations," writes Harold Wheelock, 725 Orinsby St., Adrian, Mich. "I have a Victor R-32. I have used everything possible for an aerial. I would like to know if any DXer on your list uses a receiver similar to mine."

Robert L. Bridge, 66 Chestnut Street, Turtle Creek, Pa., wants any other owner of a similar set to tell him how he can make his Courier receiver more selective. His log has passed the 300 mark, seven of them being hundred-watters on the Pacific Coast and eleven Mexicans.

In three weeks, with his Emerson Model T four-tuber, M. E. Borah, 495 N. Main St., Ashland, Oregon, has brought in 154 stations including seven Jo's, 2YA and 10 AT. He has logged all states west of the big river and ten east of it. Wants to hear from other Emersonians.

"I have tuned in every state in the Union except Rhode Island, Wyoming and Idaho," comments Russell Hicks, 105 Navarre St., Monroe, Mich. "In two years and 11 months I have tuned in 394 stations in U. S., Canada, Mexico, Cuba, Porto Rico and Venezuela."

"I am a newcomer to DX, but since October 21st I have logged 177 stations," writes Morris J. Flashman, 120 Rose Ave., Syracuse, N. Y. "I have at least one station on each of the 97 channels and have almost completed my roster of stations."

Needs Three States

"I have a Buckingham 8-tube all-electric receiver," reports Carl Heyn, 2738 West 22nd St., Chicago, Ill. "and I have to date 465 stations in North America. I have all the states except Maine, Rhode Island and Nevada."

R. Hodge, 24 Briggs Street, Buffalo, N. Y., and his wife are Radexers who would like to join some DX club and hear from other owners of Scott, Zenith or Howard receivers.

"I have listened to KTFI at Twin Falls, Idaho, this morning at 1:35 a. m. EST. It came in at exactly 1240 keys. with good volume and

tone," postcards Charles Keinath, 38 Prospect St., Newark, Ohio. "They were having a DX program and were reading a list of DX fans who had written in. I dropped them a line and hope to hear my name from their station next Sunday morning as announced. I also received a station, WRL, which I cannot find listed. They said they wanted to hear from DX listeners. They were on a low wave on the broadcast band. I didn't think to write down the frequency."

"WRAM has been ordered by the FCC to broadcast frequency checks on the mornings of January 6th and 20th, between 2 and 3 a. m. EST," reports Meyer Tuchinsky, 3436 Filbert St., Philadelphia, Pa. "Advise all readers to look for stations in North Carolina, South Carolina, Tennessee, Georgia, Alabama and Florida, on these same nights; also WKAQ. This is the old fourth district."

Can't Locate XETQ

"XETQ ought to be deleted," says Meyer Tuchinsky, 3436 Filbert St., Philadelphia, Pa. "I wrote to this station after copying an hour's program on 1230 keys., and getting the first three letters of the call XET. My letter came back from Mexico City after a month and a half, with about a dozen postmarks on it, from every part of that city, advising that the station could not be located."

"CMCW is now on 955 keys.," advises Meyer Tuchinsky, 3436 Filbert St., Philadelphia, Pa. "This is their fourth frequency, as they were formerly on 1270, 1325, and 1375 keys. They are now on the air every Tuesday and Saturday morning from 1 to 2 EST, announcing in English and Spanish, and come through fine."

CFBO broadcasts the weather reports from the Maritime Provinces from 6:00 a. m. to 6:05 AST, is information that comes from George E. Lowry, David Street, Brampton, Ont., who also reports that KROW will give another DX program on January 21st but the hours are not known. Mr. Lowry now has 376 on his log.

More About CRICKET

STILL the inquiries come in regarding that cricket game mentioned in the last issue. We are hopeful that some reader will yet give us the station which broadcast this game before the forms for this number are closed. But at the moment of writing, it is still a mystery. VK2ME broadcast this series on the short waves but what station carried it in the broadcast band?

P. J. Hauss, 221 S. Butler Ave., Indianapolis, Indiana, thinks it was 4RK as it came in as the Aussies usually do. L. E. Wallace, 110 N. Duval St., Tallahassee, Fla., reports picking it up on approximately 915 kcs. and that the announcer had a marked British accent. Another announcer who gave the record of each of the players, also had the typical English pronunciation.

Earl R. Roberts, 105 Gomber Ave., Cambridge, Ohio, thinks he has solved the problem. "A friend has located the station I heard December 2nd, 3rd, and 6th, on 910-915 kcs. broadcasting a ball game," he writes. "It was Poste Parisien, Paris, France. How's that for a record? My first European and heard with really fine volume three mornings in succession. It came in from 1 a. m. to 3 a. m. EST and was loud enough so that nearly every word could be understood easily until after 2:00 when it faded continually." We can hardly believe, in view of the number of readers reporting the reception, that this program came from Paris. If it was a foreign station, it was much more likely one of the Australians. Mr. Roberts receives a number of the VK's such as 4BC, 4QG and others.

The first likely tip on the source of the cricket game comes from Bill Vornkahl, Westport, Conn., who says: "That station was a Canadian because the announcer said that the reports

were being read from cables and that we were hearing them but a few minutes after the plays were made. I did not hear any call letters but my guess is that it was CFQC at Saskatoon."

WITH THE EDITOR . . .

(Continued from page 8)

period in the United States in the fall of 1928. It is possible that the band from 160 kcs to 224, now used in Europe, may be set aside for broadcasting in North America.

Canadian Industries Limited, Box 1260, Montreal, Que., have published a most beautiful book regarding the 1932-1933 season of the "C-I-L Opera House of the Air," which interested listeners may secure upon request. This cycle of operas concludes with "A Midsummer Night's Dream" on January 29th and "Merrle England" on February 5th. It may be brought in between 9:00 and 10:00 p. m. EST. over stations CFRB, CKOC, CJGC, CNRO, CFCF or CKAC.

A number of readers of whom Clarence Markel, 622 North 7th St., Quincy, Ill., is one, have received station UYR on about 1740 kcs. The official Canadian list does not show any UYR but we believe this is a new station in Montreal, possibly a police. Will some of our Quebec readers please advise us? Right this minute comes a letter from Heinz Milark, 102-10 185th St., Richmond Hill, N. Y., with the information direct from Montreal police that VE9BM is the test call for their station UYR. Our guess was a good one.

G. Wightman, 1171 West 32nd Ave., Vancouver, B. C., wants to know what readers are tuning the long waves above the b. c. band and what success they are having. He has built a two-tuber to tune up to 15,000 meters.

"We have a Victor R. 30 battery set, using five 230 tubes and three 232 screen-grid," writes P. J. Hoffmann, Annaheim, Sask. "At times we

experience considerable trouble cutting out nearby stations (cross talk) and were wondering if the set could not be supplied with the 234 R.F. pentode tubes, the same as are now furnished with the latest Victor Model R. 68. These latter tubes are intended to cut out the cross talk, I understand."

If any of our readers have had experience with the tubes mentioned, will they give their opinion to Mr. Hoffmann?

Calibrating a Set

"MY set never was calibrated at all accurately," complains John H. Madigan, 379 Rockingham Street, Rochester, N. Y. "It is o. k. from 550 kcs. to 1000 and then it begins to read less than it should until WHAM comes in at 1115 instead of 1150 and WHEC is at 1345 instead of 1430 as it should be. The local agency told me that if the set calibrated all right at but one end of the dial, that was as much as I could expect! Is this trouble caused by misalignment?" We have often said before that there is nothing more annoying about a radio receiver than inaccuracy in calibration thus causing the operator to go through a sort of arithmetical calisthenics every time he wants to tune a station in. Before we bought any receiver, we should insist upon a demonstration. Fortunately this is an easy fault to detect before the purchase is made. Tune in a few stations and note whether they come in exactly where they should upon the dial. If they do not, then pass that receiver up as you would a bad check. No matter how faithful the tone or how beautiful the cabinet, if the dial is inaccurate you are just buying a constant source of annoyance.

Now what can be done about it? It is utterly out of the question to think of making any changes in the receiver to match the dial. The only recourse is to make the dial match the receiver. If all stations from

540 to 1500 read either too high or too low, they could be brought into position by changing the position of the dial upon the condenser shaft. But if some read too high and others too low or if some are right and others are wrong, there is no possible adjustment that will bring them into line. You will have to make a new scale.

Tune in as many different channels as you can and mark down their exact readings even to fractions. Now remove the old celluloid scale from your dial and use it as a pattern for cutting a new one. On the new scale mark your frequencies, not in accordance with the old scale, but in accordance with the channel log you have made. Your dial may not be beautiful when you have finished but at least it will be accurately calibrated.

If set manufacturers cannot calibrate their dials correctly in kilocycles, they should mark them with numbers from zero to 100. Perhaps some day the manufacturers will bring out a dial on which the kilocycle markings are adjustable and may be moved slightly either way so that the owner may calibrate his own set. Until then the moral is "*Do not buy any set that is not calibrated accurately.*"

The Bogota Program

ON Saturday morning, December 17th, at 4:15 a. m. EST, I heard a man describing Colombia, then the man announced in Spanish and the station signed off at 5:10 a. m.," reports Derek Wharton, 22 Elmwood Ave., Rye, N. Y. "The station operated on 665 kcs."

Charles E. Head, Route 2, Box 74, Derry, N. H., reports the same program. "It came in at about 660 to 663 kcs. and appeared to be coming from Colombia, South America. I tuned in at about 4:15 a. m. and listened to this station until it closed at 5:05 a. m. EST. There was some

music and then quite a lot of talk describing Colombia, a good part of which was in English. They described the coffee they grow there and spoke of the temperature averaging nearly 100 degrees all the year. At no time did I hear them announce their call letters. They spoke of the different DX clubs such as the Atlantic and the International at Miami. They closed by playing their national anthem.

Others reporting this station were William E. Johnson, Vinalhaven, Maine, and Francis Kline, 608 Juniper Street, Quakertown, Pa.

Earl R. Robert, Cambridge, Ohio, answers these inquirers by saying: "Last Saturday morning, December 17th, I was lucky enough to pick up HJN, Bogota, Colombia, on 675 kcs. (The world list of broadcasting stations in the October RAdEX shows HJN on 685 kcs.) This program was at my request dedicated to the Atlantic Radio Club. It was also dedicated to the Newark News and the International Radio clubs."

On The Short Waves

(Continued from page 22)

scribed in his article in the November issue of this magazine. Mr. Houlgate advises us that he took this circuit from another magazine and we have been trying to secure permission to republish it but so far without success. Unless such permission can be secured, we regret that we cannot give out copies of the diagram.

"I have tried three makes of short-wave converters," advises L. A. Brodhecker, Brownstown, Ind., "and found the Stewart-Warner the most satisfactory. With this set I pulled in EATH, a station in Buenos Aires, several Mexican stations; Bowmanville, Canada, comes in great. I have had IRO, Rome, Italy; EAQ, Madrid, Spain, and G5SW, Chelmsford, England."

FEBRUARY DX CALENDAR

A. M. time is given as of the night before. Thus early Monday morning programs are listed under Sunday night. Time is given in Eastern Standard so that programs may be listed in proper sequence.

SUNDAY NIGHT

Feb. 5th
3:00-5:00—KPCB, 650, Seattle, Wash.

Feb. 19th
2:30-5:00—10-BI, 1200, Prince Albert, Sask.

Feb. 5th, 12th, 19th, 26th
12:00-1:00—WSAZ, 580, Huntington, W. Va.
12:30-1:00—KSOO, 1110, Sioux Falls, S. D.
1:00-3:00—WGES, 1360, Chicago, Ill.

MONDAY NIGHT

Feb. 6th
4:45-5:00—WEAO, 570, Columbus, Ohio

Feb. 6th, 20th
5:00-6:00—WAWZ, 1350, Zarephath, N. J.

Feb. 20th
2:00-3:00—WQAN, 880, Scranton, Pa.

Feb. 27th
12:30-2:00—CJJC, 690, Calgary, Alta.
4:00-5:00—KPOF, 880, Denver, Colo.

Feb. 6th, 13th, 20th, 27th
12:00-2:30—WMIL, 1500, Brooklyn, N. Y.
1:00-5:00—WABZ, 1200, New Orleans, La.
2:00-4:00—KOY, 1390, Phoenix, Ariz.
5:15-5:30—WHP, 1430, Harrisburg, Pa.

TUESDAY NIGHT

Jan. 31st
2:00-9:00—KGIR, 1360, Butte, Mont.
3:00-5:00—LV-1, 1430, San Juan, Arg.

Feb. 7th
3:00-6:00—WOPI, 1500, Bristol, Tenn.

Feb. 14th
2:00-3:00—WJMS, 1420, Ironwood, Mich.
2:00-4:00—WHET, 1210, Troy, Ala.
4:00-5:00—KFBI, 1050, Abilene, Kans.

Feb. 21st
2:30-3:30—WCLO, 1200, Janesville, Wis.

Jan. 31st, Feb. 28th
4:00-5:00—KGAR, 1370, Tucson, Ariz.

Feb. 7th, 14th, 21st, 28th
12:00-1:00—XEL, 1132, Monterey, Mex.
1:00-4:00—WSUI, 880, Iowa City, Iowa
3:00-4:00—CFJC, 1120, Kamloops, B. C.
3:00-4:00—KFGQ, 1310, Boone, Iowa

WEDNESDAY NIGHT

Feb. 1st
9:00-9:00—WEBQ, 1210, Harrisburg, Ill.
1:00-3:00—KFJZ, 1370, Ft. Worth, Tex.
2:00-3:00—CHWK, 665, Chilliwack, B. C.
2:30-4:30—KXO, 1500, El Centro, Calif.

Feb. 8th, 22nd
1:00-2:30—WCBD, 1080, Zion, Ill.

Feb. 22nd
1:00-4:00—WWNC, 570, Asheville, N. C.

Feb. 1st, 8th, 15th, 22nd
11:30-1:00—KFUO, 550, St. Louis, Mo.
12:00-1:00—WHBT, 1410, Sheboygan, Wis.
2:00-3:00—KFXJ, 1310, Grand Junction, Colo.
2:30-4:30—CKWX, 730, Vancouver, B. C.
2:30-4:30—KGFF, 1420, Shawnee, Okla.

THURSDAY NIGHT

Feb. 2nd, 16th
11:30-3:00—WMBC, 1420, Detroit, Mich.

Feb. 9th
3:00-5:00—WHBF, 1210, Rock Island, Ill.

Feb. 2nd, 9th, 16th, 23rd
12:00-1:00—WTEL, 1310, Philadelphia, Pa.
2:00-3:00—CFAC, 690, Calgary, Alta.
3:00-4:00—CKOV, 1200, Kelowna, B. C.

FRIDAY NIGHT

Feb. 3rd, 17th
1:00-5:00—KASA, 1210, Elk City, Okla.

Feb. 17th

5:00-6:00—WJBU, 1210, Lewisburg, Pa.

Feb. 24th
3:00-4:00—KDLR, 1210, Devils Lake, N. D.
3:00-4:00—WHA, 940, Madison, Wis.
4:30-6:30—10-BP, 1199, Wingham, Ont.

Feb. 3rd 10th, 17th 24th
12:30-1:30—WCAJ, 590, Lincoln, Neb.
1:00-2:00—CFCN, 985, Calgary, Alta.
1:00-3:00—CKCL, 589, Toronto, Ont.
1:00-2:00—WENC, 1420, Americus, Ga.
1:30-3:30—KGEK, 1200, Yuma, Colo.
4:30-5:00—CMJH, 1150, Ciego de Avila, Cuba

SATURDAY NIGHT

Jan. 28th
3:00-4:00—WOL, 1310, Washington, D. C.
4:00-5:00—WRDW, 1500, Augusta, Ga.
5:00-6:00—KOOS, 1370, Marshfield, Ore.

Feb. 4th
12:00-2:00—CMCH, 1395, Havana, Cuba
12:00-4:00—WRBX, 1410, Roanoke, Va.
1:00-3:00—WILL, 890, Urbana, Ill.
1:30-2:00—CHGS, 1120, Summerside, P. E. I.
2:00-3:00—CHEML, 880, Hamilton, Ont.
2:00-4:00—10-BQ, 1200, Brantford, Ont.
3:00-4:00—KVAL, 1270, Colorado Springs
6:30-7:30—WCAL, 1250, Northfield, Minn.

Feb. 4th, 18th
1:00-5:00—WJEJ, 1210, Hagerstown, Md.
2:30-4:30—10-AB, 1200, Moose Jaw, Sask.

Feb. 11th
1:05-4:00—WNAD, 1010, Norman, Okla.
1:30-3:00 YVIBC, 960, Caracas, Venez.

Feb. 11th, 25th
1:00-3:00—KUSD, 890, Vermilion, S. D.

Feb. 18th
2:00-3:00—WTOC, 1260, Savannah, Ga.

Feb. 25th
12:00-4:00—WIBW, 580, Topeka, Kan.
2:00-2:30—WFAS, 1210, White Plains, N. Y.

Feb. 4th 11th, 18th, 25th

12:00-2:00—WCAH, 1430, Columbus, Ohio
12:00-2:00—WGBI, 880, Scranton, Pa.
12:00-3:00—CMCD, 1140, Havana, Cuba
12:00-3:00—WWRL, 1500, Woodside, N. Y.
12:00-5:00—WTPI, 1450, Athens, Ga.
12:30-3:00—WBBZ, 1200, Ponce City, Okla.
1:00-1:30—WKY, 900, Oklahoma, Okla.
1:00-2:00—CMCY, 1325, Havana, Cuba
1:00-2:00—KQV, 1380, Pittsburgh, Pa.
1:00-2:00—WGBF, 630, Evansville, Ind.
1:30-3:00—KMAC, 1370, San Antonio, Tex.
1:00-3:00—KRLD, 1040, Dallas, Tex.
1:00-3:00—WGES, 1360, Chicago, Ill.
1:00-3:00—WIBG, 930, Glenside, Pa.
1:00-3:00—WOW, 590, Omaha, Neb.
1:00-4:00—KGU, 750, Honolulu, Hawaii
1:15-2:30—WOMT, 1210, Manitowoc, Wis.
2:00-3:00—CMGE, 1375, Cardenas, Cuba
2:00-3:00—KFEL, 920, Denver, Colo.
2:00-4:00—WWAE, 1200, Hammond, Ind.
2:00-6:00—WTRC, 1310, Elkhart, Ind.
2:30-4:30—CKWX, 730, Vancouver, B. C.
3:00-4:00—CFCT, 630, Victoria, B. C.
3:00-4:00—CKOV, 1200, Kelowna, B. C.
3:00-4:00—KDB, 1500, Santa Barbara, Calif.
3:00-4:00—KFXF, 920, Denver, Colo.
3:00-4:00—KFXM, 1210, San Bernardino, Calif.
3:00-4:00—KGER, 1360, Long Beach, Calif.
3:00-6:00—KGCX, 1310, Wolf Point, Mont.
4:00-5:00—XES, 1055, Tampico, Mex.
4:00-6:00—KVOA, 1260, Tucson, Ariz.

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).....WABC NATIONAL, Red (R).....WEAF NATIONAL, Blue (B).....WJZ

| Call | Dial | Call | Dial |
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TIME—E Eastern Standard; C Central Standard; M Mountain Standard; P Pacific Standard.

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

Editor's Note: These programs are correct at the time of going to press but are subject to change thereafter.

MONDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45
B—Little Orphan Annie
 CKGW KDKA WBAL WBZA WCKY
 WGAR WHAM WIS WJAX WJR
 WJZ WRVA WWCN

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C—Freddie Rich's Orchestra
 CFRB CKOK KFH KLZ KSCJ KSL
 KTRH KFOR WAAB WABC WADC
 WBCM WBIG WBRC WBT WCAO
 WDAE WDBO WDOD WDSU WFEA
 WFEA WHEC WICC WIP WJAS
 WJSV WKBH WKBN WKBW WLWB
 WLWB WNAX WODX WOKO WORC
 WQAM WSBT WSFA WSJS WSPD
 WTAQ WTAR WTOC
R—Waldorf-Astoria Orchestra
 CKGW KFYR KGO KOA KPRC
 KSD KTBS WBEN WCAE WCKY
 WCSH WDAF WEAF WENR WFBR
 WFI WHO WIBA WIOD WJAR
 WKY WMC WOAI WOC WRC WSB
 WSMB WTAG WWCN
B—Del Lampe and Orchestra
 KOIL KSO KWCR WBAL WJZ
 WMAQ WREN

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C—Reis and Dunn
 CFRB CKOK KFAB KFH KLZ
 KMBC KSCJ KSL KTRH KFOR
 WAAB WADC WBCM WBIG WBRC
 WBT WCAE WDAE WDBO WDOD
 WDSU WEAN WFEA WGR WHEC
 WIP WISN WJAS WJSV WKBH
 WLWB WLWB WNAX WOKO WORC
 WQAM WSBT WSFA WSJS WSPD
 WTAQ WTAR WTOC

E-6:30 p.m., C-5:30, M-4:30, P-3:30
C—Vaughn De Leath
 CFRB CKOK KTRH WAAB WABC
 WADC WBCM WBIG WBRC WBT
 WDOD WDOD WDSU WEAN WFEA
 WGR WJSV WKBH WLWB WLWB
 WOKO WORC WQAM WSFA WSJS
 WSPD WTAR WTOC
R—Al Bernard, Minstrel Man
 KFSD KGO KOA WBEN WDAF
 WEAF WFBR WIOD WIS WMAQ
 WMC WRC WSB WSMB

E-6:45 p.m., C-5:45, M-4:45, P-3:45
C—Buddy Harrod and Orchestra
 CFRB CKOK WAAB WABC WADC
 WBCM WDSU WFEA WHEC WHEC
 WHK WIP WJAS WJSV WKBH
 WKBW WLWB WLWB WOKO WORC
 WBT WSPD WTOC

R—Rhythm String Quartet
 WBEN WCAE WCSH WEAF WFBR
 WFI WJAR WRC WSAI WTAG
 WTAM WTIC WWJ
B—Lowell Thomas
 CKGW KDKA WBAL WBZ WBZA
 WGAR WHAM WJR WJZ WLW
B—Little Orphan Annie
 KFYR KOIL KPRC KSO KSTP
 KTBS KWCR KWK WBAP WDAY
 WEBC WENR WKY WOAI WREN

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C—Myrt and Marge
 CKOK KRLL WABC WADC WCAO
 WCAU WDRC WEAN WFBL WGR
 WHK WJAS WJSV WKRC WNAC
 WOKO WSBT WSPD WWVA
R—Jane Froman and Band
 WCAE WCSH WEAF WFBR WSM
B—Amos 'n' Andy
 CKGW KDKA WBAL WBZ WBZA
 WCKY WFLA WGAR WHAM WIOD
 WJAX WJR WJZ WLW WPTF WRC
 WRVA WWCN

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C—Buck Rogers in Year 2422
 CKOK WABC WGR WHK WNAC
R—Wheatonville Ray Knight
 WDAF WEAF WEEI WGY WHO
 WJAR WLIT WMAQ WOC WOW
 WRC WTAM WWJ
B—Tastyest Jesters
 KDKA WBAL WBZ WBZA WCKY
 WHAM WJZ

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C—Dolf Martin's Orchestra
 WABC WCAO WCAU WDRC WEAN
 WFBL WFEA WGR WHEC WHP
 WJAS WLWB WNAC WOKO WORC
 WSJS
R—Melody Keepsakes
 WCAE WEAF WEEI WFBR WGY
 WHO WJAR WMAQ WOC WOW
 WRC WTAG WWJ
B—Five Star Theatre
 KDKA KTBS WBAL WBZ WBZA
 WHAM WIS WJZ WMAL WMC
 WPTF WRVA WSAZ WSMB WWCN

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C—Boake Carter, News Flashes
 CKOK KMBC KMOX WABC WBBM
 WBT WCAO WCAU WCCO WGR
 WHAS WHK WJSV WNAC
R—The Goldbergs
 KFYR KPRC WBEN WCAE WCSH
 WEAF WEEI WFAA WFBR WGY
 WJAR WKY WLIT WOAI WRC
 WTAG WTAM WWJ

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C—Whispering Jack Smith
 CKOK KMBC KMOX WABC WADC
 WCAO WCAU WDRC WEAN WFBL
 WFBM WGN WGR WHAS WHK
 WJAS WJSV WKRC WNAC WOKO
 WSPD
R—Soconyland Sketches
 WBEN WCSH WEAF WEEI WGY
 WJAR WTAG WTIC
B—Cluquet Club Eskimos
 KDKA KOIL KSO KWCR KWK
 WBAL WBZ WBZA WCKY WGAR
 WHAM WJZ WLS WREN

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C—Singin' Sam
 CKOK KMBC KMOX WABC WADC
 WCAU WCCO WDRC WEAN WFBL
 WFBM WGN WGR WHK WJAS
 WJSV WKRC WNAC WOKO WSPD

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C—Fu Manchu Mystery
 CFRB CKOK KMBC KMOX KRLL
 WABC WADC WBT WCAO WCAU
 WDRC WEAN WFBM WGN WGR
 WHAS WHK WJAS WJSV WKRC
 WNAC WOKO WWO WSPD
R—Voice of Firestone
 CFCE CKGW KPRC KSD KTBS
 KVOO WBEN WCAE WCSH WEAF
 WEEI WFAA on 8:45 WFBR WFLA
 WGY WHO WIOD WIS WJAR WJDX
 WKY WLIT WLW WMAQ WMC
 WOAI WOC WOW WRC WRVA
 WSB WSM WSMB WTAG WTAM
 WTIC WWJ WWCN
B—Jack Fulton
 KDKA KSO WBAL WBZ WBZA
 WJR WJZ WLW WREN

E-8:45 p.m., C-7:45, M-6:45, P-5:45
B—Phillips Lord in Country Doctor
 KDKA KOIL KWCR KWK WBAL
 WBZ WBZA WGAR WJR WJZ WLS
 WREN

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C—Chesterfield Program
 CKOK KBD KERN KFBK KFPY
 KFRC KGB KHJ KLRA KLZ KMBC
 KMJ KMOX KOH KOIN KOL KOMA
 KRLL KSL KTRH KTSB KVI KWG
 WABC WADC WBRC WBT WCAH
 WCAO WCAU WCCO WDAE WDBJ
 WDOD WDRC WDSU WEAN WFBL
 WFBM WGN WGST WHAS WHEC
 WHK WISN WJAS WJSV WKBW
 WKRC WLAC WLWB WMBG WMT
 WNAC WOKO WORC WWO WFG
 WQAM WRFC WSPD WTAR WTOC
R—A. & P. Gypsies
 KSD WBEN WCAE WCSH WDAF

MONDAY—Continued

WEAF WEEI WGY WHO WJAR
WLIT WMAQ WOC WOU WRC
WSAI WTAG WTAM WTIC WWJ
B—Sinclair Wiener Minstrels
KDKA KFYP KOIL KPRC KSO
KSTP KTBS KTBS KVOO KWCR
KWK WAPI WBAL WBZ WGBA
WDAY WEEC WFAA WFLA WGAR
WHAM WIBA WIOD WIS WJAX
WJDX WJR WJZ WKY WLW WMC
WOAI WREN WRVA WSB WSM
WSMB WTMJ WWNC

E-9:15 p.m., C-8:15, M-7:15, P-6:15
C—The Mills Brothers
CROK KMBC KMOX WABC WADC
WCAO WCAU WDRC WEAN WFBL
WGN WHAS WHK WJAS WJSV
WKBW WKRC WNAC WOKO WSPD

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C—Mysteries in Paris
CROK KMBC KMOX WABC WADC
WBT WCAO WCAU WEAN WFBL
WGN WHK WJAS WJSV WKBW
WKRC WNAC WOKO WOWO WSPD
R—Paul Whiteman and Orchestra
KDYL KFI KFSD KFYP KGH
KQIR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KTAR KTBS
WBEN WCAE WCHS WDAF WDAY
WEAF WEEC WEEI WFAA WFBR
WFLA WGY WHO WIBA WIOD
WJAR WJAX WJDX WKY WLIT
WMAQ WMC WOAI WOC WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WTMJ WWJ WWNC
B—Jack Frost's Melody Moments
KDKA KRAL WENB WGAR WHAM
WJR WJZ WLW

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C—Morton Downey
CFRB CROK KLZ KMBC KSCJ
KTSA KVOR WABC WADC WBCM
WBIG WBRC WBT WCAO WCAU
WDAE WDOD WDRC WDSU
WEAN WFBM WFEA WHEC WICC
WJAS WJSV WKBN WKBN WKBW
WLBW WLBZ WNAX WODX WOKO
WORC WPG WQAM WSPD WTAR
WTOC
R—Contented Program
CFRF CKGW KFYP KPRC KSD
KSTP WBEN WCAE WDAF WDAF
WEEC WENR WFAA WFLA WGY
WHO WIOD WJAX WKY WMC
WOAI WOC WRVA WSAI WSB
WSM WTAM WTMJ WWJ
B—Alice Joy, Contralto
KDKA KOA KOIL KSO KWCR
KWK WBAL WBZ WBZA WCKY
WGAR WHAM WJR WJZ WMAQ
WREN

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C—Columbia Revue
CFRB CROK KLZ KMBC KSCJ
KTRH KTSA KVOR WAAB WABC
WADC WBBM WBCM WBIG WBRC
WBT WCAO WCAU WCOO WDAE
WDOD WDOD WDRC WDSU WEAN
WFBM WFEA WHEC WIBW WICC
WISN WJAS WJSV WKBN WKBN
WKBW WLBW WLBZ WMBD WNAX
WODX WOKO WORC WQAM WSJS
WSPD WTAR WTOC

R—National Radio Forum
KECA KGA KPO KSD KTAR KTBS
WBEN WCHS WDAF WEAF WEEI
WENR WFBR WFLA WIBA WIOD
WIS WJAR WJDX WKY WOAI
WRC WRVA WSAI WTAG WTAM
WWJ WWNC
B—Archer Gibson, Organist
CFRF KDKA KWCR KWK WBAL
WBZ WBZA WCKY WJR WJZ WREN

E-10:45 p.m., C-9:45, M-8:45, P-7:45
C—Myrt and Marge
KDB KERN KFBE KFYP KFRC
KGB KHJ KLZ KMBC KMJ KMOX
KGIN KOL KSL KVI KWG WBBM
WCCO WDSU WFBM WHAS WLAC

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C—Howard Barlow's Symphony
CFRB CROK KFAB KFH KLZ
KMBC KSCJ KSL KTRH KVOR
WAAB WABC WADC WBCM WBRC
WBT WCAO WDOD WDRC WDSU
WEAN WFAA WFBM WHK WIBW
WICC WIP WISN WJAS WJSD
WKBW WKBW WLBW WLBZ WMBD
WNAX WODX WOKO WORC WQAM
WSBT WSJS WSPD WTAR WTOC
R—Ted Wejns and Orchestra
KFYP KGO KOA KSD WBEN WCAE
WCKY WDAF WEAF WEEC WFBR
WGY WHO WIBA WJAR WOC
WRC WTAG WTAM WWJ

B—Amos 'n' Andy
KDYL KFI KFSD KGO KGW KHQ
KOA KOIL KOMO KPRC KSTP
KTBS KWK WBAP WDAF WENR
WJDX WKY WMAQ WMC WOAI
WREN WSB WSM WTMJ

E-11:15 p.m., C-10:15, M-9:15, P-8:15
B—Cesare Sodero Concert Orchestra
KFI KFSD KFYP KGO KOA KPRC
KSO KTBS KWCR KWK WBAL
WCKY WEEC WENR WFLA WGAR
WHAM WIBA WJAX WJR WJZ
WKY WMC WOAI WSB WSM WSMB
WWNC

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C—Guy Lombardo and Orchestra
CFRB CROK KFAB KFH KLZ
KMBC KMOX KSCJ KSL KTRH
KVOR WAAB WABC WADC WBCM
WBRC WBT WCAO WCAU WCOO
WDOD WDRC WDSU WEAN WFBM
WHK WIBW WICC WISN WJSV
WKBW WKBW WLBW WLBZ WMBD
WNAC WODX WOKO WORC WPG
WQAM WSBT WSJS WSPD WTAR
WTOC

R—Jack Denny and Orchestra
WEAF WFBR WJAR WRC WTAG
WTIC
R—Voice of Firestone
KDYL KFI KFSD KFYP KGH
KQIR KGO KGW KHQ KOA
KOMO KSTP KTAR WDAY WEEC
WIBA WTMJ

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C—Abe Lyman and Orchestra
CROK KFAB KLZ KMBC KMOX
KRLD KSCJ KSL KTRH KVOR
WABC WBRC WBT WCAU WCOO
WDOD WDSU WIBW WICC WISN
WJSV WKBW WLBW WMBD WNAC
WNAX WOKO WPG WSBT WSPD
WTOC

R—The Goldbergs
KDYL KECA KEX KGA KJR KOA
KPO
B—Russ Columbo and Orchestra
KDKA KOIL KWCR KWK KYW
WBZ WBZA WJAR WJZ WRC WREN

TUESDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45
B—Orphan Annie, See Monday

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C—H. V. Kaltenborn
CROK KFH KSCJ KSL KTRH KVOR
WAAB WABC WADC WBBM WBCM
WBIG WBRC WBT WCAO WDAE
WDBO WDOD WDRC WDSU WEAN
WFEA WHEC WICC WISN WJAS
WJSV WKBN WKBN WKBW WLBW
WLBZ WNAX WODX WOKO WORC
WQAM WSBT WSPA WSJS WSPD
WTAG WTAR WTOC
R—Waldorf-Astoria, See Monday
B—Gus Van and Joe Furst
KDKA KOIL KSO KWCR WBZ
WBZA WJZ WMAQ WREN

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C—Reis and Dunn, See Monday

E-6:30 p.m., C-5:30, M-4:30, P-3:30
R—Mid-Week Hymn Sing
KFYP KGO KOA KOMO KTBS
KTBS KVOO WBEN WDAF WDAF
WFBR WFI WIS WMAQ WMC
WOAI WPTA WSB WSMB WTAG
WWNC

E-6:45 p.m., C-5:45, M-4:45, P-3:45
R—Back of the News
WBEN WEAF WFBR WFI WIS WJAR
WPTF WRC WSM WTAG WWJ
B—Lowell Thomas, See Monday
B—Orphan Annie, 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
R—Jay Dennis and Ted Reese
KDYL KFI KGIR KGO KHQ KOA
KTAR KTBS KVOO WBEN WCHS
WDAF WEAF WFBR WIBA WJAR
WJDX WSAI WSB WSM WTAG WWJ

E-7:15 p.m., C-6:15, M-5:15, P-4:15
C—Buck Rogers, See Monday
R—Wheatonville, See Monday
B—Radio in Education
KDKA KDYL KECA KEX KFSD
KFYP KGA KGIR KJR KOA KOIL
KPO KTBS KVOO KWCR WBZ
WBZA WENR WFLA WIBA WIS
WJDX WJZ WMC WOAI WPTF
WREN WSB WSM WSMB WWNC

E-7:30 p.m., C-6:30, M-5:30, P-4:30
R—Irene Taylor
WBEN WCAE WEAF WFBR WFI
WGY WJAR WRC WTAG WTAM

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C—Boake Carter, See Monday
R—The Goldbergs, See Monday
B—Anson Weeks and Orchestra
CFRF CKGW KSO KWCR KWK
WBAL WBZ WBZA WGAR WHAM
WIOD WIS WJZ WREN WSMB
WWNC

TUESDAY—Continued

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

C—Easy Aces

CKOK KDB KERN KFBK KFPY
KFRC KGB KHJ KLZ KMBC KMJ
KMOX KOIN KOL KSL KVI KWG
WAAB WABC WADC WCAO WCAU
WCCO WDRC WEAN WFBL WFBM
WGN WHAS WHK WJAS WJSV
WKBW WKRC WOKO WOW WSPD
R—Blackstone, Sanderson-Crumit
KSD KSTP KYW WBEN WCAE
WCSH WDAF WFAF WHEC WHEE
WFI WGY WHO WJAR WOC WOV
WRC WSAI WTAG WTAM WWJ
B—Eno Crime Club
KDKA KOIL KSO KWCR KWK
WBAL WBZ WBZA WGAR WHAM
WJZ WLW WMAQ WREN

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

C—Magic Voice

CKOK KMBC KMOX WABC WADC
WCAO WCAU WDRC WEAN WFBL
WFBM WGN WGR WHAS WHK
WJAS WJSV WKRC WNAC WOKO
WSPD

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

C—Kate Smith

CKOK KMBC KMOX WABC WADC
WBCN WCAH WCAO WCAU WCCO
WFBL WFBM WGN WGR WHAS
WHEC WHK WISN WJAS WJSV
WKBB WKRC WOKO WOW WSPD
R—Wayne King and Orchestra
KSD KSTP WBEN WCAE WCKY
WCSH WFAF WHEC WHEE WFBR
WFI WGY WHO WIBA WJAR
WMAQ WOC WOV WRC WSAI
WTAG WTAM WTMJ WWJ
B—Horlick-Health Talks
KDKA KOIL KWCR KWK WBAL
WBZ WBZA WGAR WHAM WJZ
WLS WLW WREN

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

C—Abe Lyman and Orchestra

CKOK KMBC KMOX WABC WADC
WCAO WCAU WDRC WEAN WFBL
WFBM WGN WGR WHAS WHK
WJAS WJSV WKRC WNAC WOKO
WOW WSPD
B—Phillips Lord, See Monday

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

C—Chesterfield, See Monday

R—Ben Bernie and Orchestra

KFYR KOA KPCY KSTP WBAP
WBEN WCAE WCKY WCSH WDAF
WDAF WFAF WHEE WFBR WFI
WGY WHO WJAR WKY WLS WMC
WOAI WOC WOV WRC WRVA
WSAI WSB WSM WSMB WTAG
WTAM WWJ
B—Household Musical Memories
KDKA KSO KWK WBAL WBZ
WBZA WHAM WJR WJZ WMAQ
WREN

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

C—Threads of Happiness

CKOK KDB KERN KFBK KFH
KFPY KFRC KGB KHJ KLRA KLZ
KMBC KMJ KMOX KOIN KOMA
KRLD KSL KTRH KTSa KVI KWG
WABC WADC WBCN WBT WCAO
WCAU WCCO WDAE WDBO WDOD
WDRC WDSU WEAN WFBL WFBM
WGN WGST WHAS WHEC WHK
WJAS WJSV WKBW WKRC WLAC

WNAC WOKO WOWO WQAM WREC
WSPD WTAR WTOC

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

R—Ed Wynn-Don Voorhees

CFRC KDYL KFI KFSD KFYR
KGHL KGIR KGO KGW KHQ KOA
KOMO KPRC KSD KSTP KTRH
KTSB KTHS KVVO WBAP WBEN
WCAE WCSH WDAF WDAY WFAF
WHEC WHEE WFBR WFI WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WKY WLW WMAQ
WMC WOAI WOC WOV WRC
WRVA WSB WSM WSMB WTAG
WTAM WTMJ WWJ WWNC

C—California Melodies

CFRB CKOK KFH KLZ KMBC
KMOX KSCJ KSL KTRH KTSa
WABC WBCM WBIG WBCN WBT
WCAO WCAU WCCO WDAE WDBO
WDRC WEAN WFBM WFEA WHEC
WHK WIBW WJAS WKBB WKBN
WLWB WLWB WMBD WNAC WNAX
WODX WOKO WQAM WSJS WTAR
WTOC

B—Garcia's Novelty Orchestra

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

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

C—Five Star Theatre

KLRA WABC WBIG WBT WCAO
WCAU WDBJ WDOD WDRC WDSU
WEAN WFBL WFEA WHP WCC
WJAS WJSV WKBW WLAC WMBG
WNAC WNOX WOBU WOKO WORC
WREC WSJS WTAR

R—Lucky Strike Hour

KDYL KFI KFSB KFYR KGO KGU
KGH KHQ KOA KOMO KPRC KSD
KSTP KTRH KTSB KTHS WAF
WBAP WBEN WCAE WCSH WDAF
WDAF WFAF WHEC WHEE WFBR
WFBR WFI WFLA WGY WHO
WIBA WKY WLW WJAR WJAX
WJDX WRC WRVA WSB WSM WSMB
WTAG WTAM WTMJ WWJ WWNC

B—Moe's Sisters

CFRC CKGW KDKA KOIL KSO
KWCR KWK WBAL WCKY WGAR
WHAM WJR WJZ WREN

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

B—Sigmond Spaeth, Song Sleuth

CFRC KSO KWCR WBAL WCKY
WJZ WREN

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

C—Edwin C. Hill

CFRB CKOK KFH KLZ KMBC
KSCJ KTRH KTSa WAAB WABC
WADC WBBM WBCM WBIG WBCN
WBT WCAO WCCO WDAE WDBO
WDOD WDSU WEAN WFAN WFBM
WFEA WHEC WHK WIBW WICC
WIP WISN WJAS WJSV WKBB
WKBN WKBW WLWB WMBD
WNAX WODX WOKO WORC WPGA
WQAM WSJS WSPD WTAR WTOC
B—Ilomay Bailey, Soprano
KSO KWCR KWK WBAL WCKY
WGAR WHAM WJR WJZ WMAQ
WREN

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

C—William O'Neal, Tenor

CFRB CKOK WAAB WABC WADC
WBCM WBT WCAU WEAN WFEA
WHEC WHK WICC WJAS WJSV

WKBN WKBW WLWB WLBZ WOKO
WORC WPG WSBT

C—Myrt and Marge, See Monday

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

B—Lanny Ross, Tenor

CKGW WBAL WFLL WGAR WHAM
WIOD WIS WJAX WJZ WWNC

C—Howard Barlow, See Monday

B—Amos 'n' Andy, See Monday

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

B—Cesare Sodero, See Monday

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

C—Isam Jones and Orchestra

CFRB CKOK KFAB KFH KLZ
KMBC KSCJ KSL KTRH WAAB
WABC WADC WBCM WBCN WBT
WCAO WCAU WCCO WDAE WDBO
WDOD WDRC WDSU WEAN WFBM
WHEC WHK WIBW WICC WISN
WJSV WKBN WKBW WLWB WLBZ
WMBD WNAX WODX WOKO WORC
WPG WQAM WSJS WSPD WTAR
WTOC WWVA

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

C—Don Redman and Orchestra

CKOK KFAB KLZ KMBC KMOX
KRLD KSCJ KSL KTRH WABC
WBCN WBT WCAU WDAE WDOD
WDSU WEAN WIBW WICC WISN
WJSV WKBW WLWB WMBD WNAC
WNAX WOKO WPG WSBT WSPD
WTOC

R—The Goldbergs, See Monday

B—Cab Calloway and Orchestra

KDKA KOIL KPRC KSO KTSB
KWCR KWK WAPI WBZ WBZA
WFLA WGAR WIOD WJR WJZ WKY
WMC WREN WSB WSM WSMB
WWNC

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

R—Sam Robbins and Orchestra

WAPI WCAE WFAF WFBR WFI
WFLA WIOD WJAR WMAQ WMC
WRC WSB WSM WSMB WTAM
WWNC

R—Ben Bernie and Orchestra

KFI KFSD KGO KHQ KOMO KSD
KTRH

WEDNESDAY

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

B—Orphan Annie, See Monday

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

C—Vaughn DeLeath

CFRB CKOK KFH KMOX KSCJ
KSL KTRH KFOR WAAB WABC
WADC WBBM WBCM WBIG WBCN
WCAO WDAE WDBO WDOD WDRC
WDSU WFAN WFEA WHEC WIP
WISN WJAS WJSV WKBB WKBN
WKBW WLWB WLWB WNAX WODX
WOKO WORC WQAM WSBT WSDA
WSJS WSPD WTAQ WTOC
R—Waldorf-Astoria, See Monday

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

C—George Hall and Orchestra

CFRB CKOK KFAB KFH KLZ
KMBC KSCJ KSL KTRH KFOR
WAAB WADC WBCM WBIG WBCN
WBT WCAO WDAE WDBO WDOD
WDRC WDSU WEAN WGR WHEC
WIBW WIP WISN WJAS WJSV

WEDNESDAY—Continued

WKBH WLBZ WNAX WOKO WORC
WQAM WBSB WSFA WSJS WSPD
WTAQ WTOC

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

C—The Funnyboners
CFRB CKOK KLZ KMBC WAAB
WADC WBCM WDSU WFAN WFEA
WHCC WIP WJAS WJSV WKBN
WKBW WLBZ WLBZ WOKO WORC
WSPD WTOC

B—Lowell Thomas, See Monday
B—Orphan Annie, 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

C—Buck Rogers, See Monday
R—Wheatonville, See Monday
B—Carson Robison, Barbasol
KDKA KOIL KWK WBAL WBZ
WBZA WENR WJZ

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

C—Three X Sisters
WABC WCAO WCAU WDRC WEAN
WFBL WFEA WGR WHCC WHP
WJAS WJSV WLBZ WNAC WOKO
WORC

B—Five Star Theatre, See Monday

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

C—Boake Carter, See Monday
R—The Goldbergs, See Monday

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

C—Whispering Jack Smith, See Mon.
R—Royal Vagabonds, Ken Murray
KSD WBNB WCAE WCSH WDAF
WEAF WEEL WFBZ WGY WJAR
WLIT WLS WOW WRC WSAI WTAG
WTAM WTIC WWJ

B—Eno Crime Club, See Tuesday

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

C—Singin' Sam, See Monday

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

C—Kate Smith, See Tuesday
R—The Shadow, Mystery Drama
WBNB WCSH WEAF WEEL WFBZ
WGY WJAR WLIT WRC WTAG
WTIC

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

C—Abe Lyman, See Tuesday
B—Phillips Lord, See Monday

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

C—Chesterfield, See Monday
R—Symphony Concert
KDYL KFI KFSB KFYZ KGO KHQ
KOA KOMO KSD KTAR KTBS
KVOO WBNB WCAE WCSH WDAF
WEAF WFBZ WFLA WHO WIBA
WIOD WIS WJAR WKY WLIT
WMC WOI WOC WOW WRC WSB
WSM WTAG WTAM WWJ WWNC
B—Sherlock Holmes
CFCF CKGW KDKA KOIL KWCR
KWK WBAL WBZ WBZA WGAR
WHAM WJR WJZ WLS WLW WREN

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

C—Edwin C. Hill
CFRB CKOK KFH KMBC KRLD
KSCJ KSL K TSA KVR WABC

WADC WBCM WBIG WBRC WBT
WCAO WCCO WDAE WDBO WDOD
WDRC WDSU WEAN WFAN WFBM
WFEA WIBW WICC WIP WISN
WJAS WJSV WKBH WKBW WLBW
WLBZ WNAC WNAX WODX WOKO
WORC WQAM WSJS WSPD WTAR
WTOC

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

C—Guy Lombardo-Burns and Allen
CKOK KMBC KMOX KOMA KRLD
KTRH K TSA WABC WADC WCAO
WCAU WCCO WDRC WEAN WFBL
WFBM WGN WHK WJAS WJSV
WKBW KRCB WNAC WOKO WOWO
WSPD

B—Morton Downey and Donald Novis
KDKA KDYL KFI KGHL KGIR
KGO KGW KHQ KOA KOIL KOMO
KPRC KTAR KTBS KTHS KVOO
KWCR KWK WBAL WBZ WBZA
WENR WFAA WGAR WHAM WJDX
WJR WJZ WKY WLW WOI WREN
WSB WSM WSMB

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

C—Boswell Sisters
CFRB CKOK KMBC KSCJ KSL
K TSA KVR WABC WADC WBCM
WBIG WBRB WBT WCAO WCAU
WCCO WDAE WDBO WDOD WDRC
WDSU WEAN WFBM WFEA WHK
WLCB WJAS WJSV WKBH WKBW
WLBZ WLBZ WNAX WODX WOKO
WORC WPG WQAM WSPD WTAR
WTOC

R—Corn Cab Pipe Club
KDYL KFI KGHL KGIR KGO KGW
KHQ KOA KOMO KSD WBNB
WCAE WCSH WDAF WEAF WEEL
WENR WFBZ WGY WHO WJAR
WLIT WLW WOC WOW WRC WRA
WTAG WTAM WTIC WWJ

B—D. W. Griffith's Hollywood
KDKA KOIL KPRC KWK WBAL
WBZ WBZA WFAA WGAR WJR WJZ
WKY WMAQ WMC WREN WSB
WSMB

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

B—Alice Joy, Contralto
KFYR KSO KTBS KWCR WBAL
WBZ WBZA WCKY WDAY WEBC
WFLA WGAR WIBA WIS WJZ WKY
WREN WSB WSMB WWNC

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

C—Columbia Revue, See Monday
R—Garveth Wells
KDYL KFYZ KGA KGHL KGIR
KOA KPRC KSD KSTP KTHS WDAF
WDAY WEBC WFAA WFBZ WHO
WIBA WKY WMAQ WOI WOC
WOW WTMJ

B—L'Heure Exquise
CFCF KDKA KSO KWCR WBAL
WCKY WENR WFLA WHAM WIOD
WIS WJAX WJR WJZ WRC WREN
WWNC

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

C—Myrt and Marge, See Monday

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

C—Howard Barlow, See Monday
R—Nellie Revell, Interview
KSD WCAE WCKY WEAF WFBZ
WGY WJAR WLIT WRC WTAM
WWJ

B—Amos 'n' Andy, See Monday

E-11:15 p.m. C-10:15 M-9:15 P-8:15
B—Cesare Sodero, See Monday

E-11:30 p.m., C-10:30 M-9:30 P-8:30
C—Isham Jones, See Tuesday

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

C—Don Redman, See Tuesday
R—The Goldbergs, See Monday
B—Ben Bernie and Orchestra
KDKA KFYZ KOIL KSO KWCR
KWK WBZ WBZA WEBC WENR
WFLA WGAR WIBA WIOD WJZ
WREN WWNC

E-12:15 a.m. C-11:15, M-10:15, P-9:15

B—Sherlock Holmes
KDYL KFI KFSB KGHL KGIR
KGO KGW KHQ KOA KOMO KTAR

THURSDAY

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

B—Orphan Annie, See Monday

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

C—H. V. Kaltenborn, See Tuesday
R—Waldorf-Astoria, See Monday

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

C—Harold Stern and Orchestra
CFRB CKOK KFAB KFH KLZ
KMBC KSCJ KSL KTRH KVR
WAAB WADC WBIG WBRB WBT
WCAU WDAE WDOD WDRC WDSU
WGR WHCC WISN WJAS WJSV
WKBH WLBZ WLBZ WNAX WOKO
WORC WQAM WSBT WSJS WSPD
WTAQ WTAR WTOC

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

C—Better Reception—O. H. Caldwell
CFRB CKOK WABC WBCM WBIG
WBRB WBT WCAO WDBO WDOD
WEAN WGR WJSV WKBN WLBZ
WORC WQAM WSFA WSJS WSPD
WTAR

E-6:35 p.m., C-5:35, M-4:35, P-3:35

R—Donald Novis, Tenor
KJR WEAF WFI WMAQ WRC
WWNC

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

C—Joe Haymes and Orchestra
CFRB CKAC KFH KLZ KMBC KSCJ
KVR WAAB WADC WBBM WBCM
WBIG WBRB WCAO WDAE WDBO
WDOD WDSU WFAN WFEA WHCC
WIP WISN WJAS WKBN WLBW
WLBZ WNAX WOKO WORC WQAM
WSFA WSJS WSPD WTAQ WTAR
WWVA

B—Lowell Thomas, See Monday
B—Orphan Annie, See Monday

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

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

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

C—Buck Rogers, See Monday
R—Wheatonville, See Monday
B—Carson Robison, See Wednesday

E—7:30 p.m., C-6:30 M-5:30, P-4:30

THURSDAY—Continued

B—Louise Bernhardt, Contralto
KDKA KEX KGA KJR KOA KOIL
KPC KSO KTBS KWCR KWK WBAL
WBZ WBZA WGAR WJBA WJZ WJW
WOAI WREN WSM WSMB WWNC

E-7:45 p.m., C-6:45 M-5:45, P-4:35
C—Boake Carter, See Monday
R—The Goldbergs, See Monday

E-8:00 p.m. C-7:00, M-6:00, P-5:00
R—Rudy Vallee and Orchestra
CFCF CKGW KDYL KFI KFJR
KGO KGW KHQ KOA KOMO KPRC
KSD KSTP KTAI WAPI WBAP
WBEN WCAE WCKY WDSH WDAF
WDAY WFAE WHEC WEEI WFRB
WFI WFLA WGY WHO WIOD WJAR
WJAX WJDX WKY WMAQ WMC
WOAI WOC WOV WRC WRVA
WSAI WSB WSM WSMB WTAG
WTAM WTMJ WWJ
C—Easy Aces, See Tuesday

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C—Kate Smith, See Tuesday
B—Rin Tin Tin Thriller
KDKA KOIL KWK WBZ WBZA
WGAR WHAM WJZ WLS WLW
WREN

E-8:45 p.m., C-7:45, M-6:45, P-5:45
C—Abe Lyman, See Tuesday
B—Howard Thurston, Magician
KDKA KOIL KWK WBZ WBZA
WGAR WHAM WJR WJZ WLS
WLW WREN

E-9:00 p.m., C-8:00, M-7:00, P-6:00
R—Maxwell House Showboat
KDYL KFI KFSD KGO KGW KHQ
KOA KOMO KPRC KSD KSTP
KTAR KTBS WAPI WBEN WCAE
WCKY WDSH WDAF WFAE WEEI
WFRB WFI WFLA WGY WHO
WIOD WIS WJAR WJAX WJDX
WKY WMAQ WMC WOAI WOC
WOW WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTMJ WWJ
WWNC

C—Chesterfield, See Monday
B—Death Valley Days
KDKA KOIL KWK WBAL WBZ
WBZA WGAR WHAM WJR WJZ
WLS WLW WREN

E-9:15 p.m., C-8:15, M-7:15, P-6:15
C—Mills Brothers, See Monday

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C—Col. Stoopnagle and Budd
CKOK KDB KERN KFBK KFH
KFPY KPRC KGB KHJ KLR KIZ
KMBC KMJ KMOX KOIN KOL
KOMA KSCJ KSL KTRH KTAT
K TSA KVI KWG WABC WADC
WBRC WBT WCAH WCAO WCAU
WCCO WDAE WDBO WDRG WDSU
WEAN WFBL WFBM WGN WGST
WHAS WHEC WHK WJAS WJSV
WKBW WKRC WLAC WNAC WOKO
WOWO WQAM WRBC WRR WSPD
WTAR

B—Len Joy's Dancing Strings
KDKA KFSD KOIL KSO KWCR
KWK WBAL WBZ WBZA WENR
WGAR WHAM WJZ WREN

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C—Five Star Theatre, See Tuesday
R—Lucky Strike, See Tuesday
B—Mr. Twister, Jim Jordan
CFCF CKGW KDKA KOIL KWCR
KWK WBAL WBR WBZA WCKY
WGAR WHAM WJR WJZ WMAQ
WREN

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C—Edwin C. Hill, See Tuesday
B—Ilomay Bailey, See Tuesday

E-10:45 p.m., C-9:45, M-8:45, P-7:45
C—Charles Carlile, Tenor
CFRB CKOK WAAB WABC WADC
WBCM WCAU WDRG WDSU WEAN
WFEA WHEC WLK WIGC WJAS
WJSV WKBW WLBW WLBZ WOKO
WORC WSPD
C—Myrt and Marge, See Monday

E-11:00 p.m. C-10:00, M-9:00, P-8:00
C—Howard Barlow, See Monday
R—Don Bestor and Orchestra
WDAF WFAE WHO WJAR WOC
WOW WTAG
B—Three Keys
WBAL WHAM WIS WJZ WWNC
B—Amos 'n' Andy, See Monday

E-11:15 p.m., C-10:15, M-9:15, P-8:15
B—Cesare Sodero, See Monday

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C—Isham Jones, See Tuesday
R—Jack Denny, See Monday

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C—Abe Lyman, See Monday
R—The Goldbergs, See Monday

FRIDAY

E-5:45 p.m., C-4:45, M-3:45, P-2:45
B—Orphan Annie, See Monday

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C—Vaughn DeLeath, See Wednesday
R—Waldorf-Astoria, See Monday
B—Del Lampe, See Monday

E-6:15 p.m., C-5:15, M-4:15, P-3:15
C—George Hall, See Wednesday

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

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C—Myrt and Marge, See Monday
R—Jane Froman, See Monday
B—Amos 'n' Andy, See Monday

E-7:15 p.m. C-6:15 M-5:15 P-4:15
C—Buck Rogers, See Monday
R—Borrah Minevitch, Harmonica
WCFB WDAF WFAE WJAR WOW
WRC

E-7:30 p.m. C-6:30, M-5:30, P-4:30
C—Three X Sisters, See Wednesday
B—Five Star Theatre, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C—Boake Carter, See Monday
R—The Goldbergs, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C—Trade and Mark
CKOK KIZ KMBC KMOX KSL
WABC WADC WCAO WCAU WCCO
WDRG WEAN WFBL WFBM WGN
WGR WHAS WHK WJSV WKRC
WNAC WOKO WSPD
R—Cities Service Concert
CKGW KDYL KOA KPRC KSD
KSTP KTBS KYW WBEN WCAE
WDSH WDAF WFAE WHEC WEEI
WFAA WFRB WGY WHO WJAR
WKY WLIT WAI WOC WOW WRC
WSAI WTAG WTAM WTIC WTMJ
WWJ

B—Nestle's Program
KDKA KOIL KWK WBAL WBZ
WBZA WGAR WHAM WJR WJZ
WLS WREN

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C—Singin' Sam, See Monday

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C—March of Time
CKOK KDB KERN KFBK KFPY
KFRC KGB KHJ KIZ KMBC KMJ
KMOX KOIN KOL KSL KVI KWG
WABC WADC WCAO WCAU WCCO
WDRG WEAN WFBL WFBM WGN
WGR WHAS WHK WJAS WJSV
WKRC WNAC WOKO WOWO WSPD
B—Horlick Program, See Tuesday

E-8:45 p.m., C-7:45, M-6:45, P-5:45
B—Howard Thurston, See Thursday

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C—Chesterfield, See Monday
B—First Nighter, Drama
KDKA KDYL KFI KFSD KGO KGW
KHQ KOA KOIL KOMO KPRC
KSTP KTAR KTBS KWK WAPI
WBAL WBZ WBZA WCKY WECB
WGAR WHAM WJR WJZ WKY WLS
WOAI WREN WSM WSM WSMB
WTMJ

E-9:15 p.m., C-8:15, M-7:15, P-6:15
C—William Hall, De Re Mi
CFRB CKOK KFH KIZ KMBC
KMOX KRLD KSCJ KSL K TSA
WABC WADC WBCM WBIG WBRG
WBT WCAO WCAU WCCO WDAE
WDBO WDDO WDSU WEAN WFBM
WFEA WHEC WHK WIGC WISN
WJAS WJSV WKBH WLBW WLBZ
WNAC WNAX WOKO WORC WQAM
WJSJ WSPD WTAR WTOC

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C—Inside Story—Edwin C. Hill
CKOK KFH KLR KMBC KMOX
KOMA KRLD KTRH K TSA WAAB
WABC WADC WBCM WCAH WCAO
WCAU WCCO WDRG WEAN WFBL
WFBM WGN WGR WHAS WHEC
WHK WHP WIBW WISN WJAS
WJSV WKBH WLBW WLBZ WMBD
WOKO WORC WOWO WSPD

R—Pond's Program
KSD WBEN WCAE WDSH WDAF
WFAE WENR WFRB WGY WHO
WJAR WLIT WOC WOW WRC WSAI
WTAG WTAM WWJ
B—Eddie and Ralph
KDKA KDYL KFI KGO KGW KHQ
KOA KOIL KOMO KPRC KSO
KSTP KWK WAPI WBAL WBZ
WBZA WECB WFAA WGAR WHAM

FRIDAY—Continued

WIOD WJAX WJR WJZ WKY WMAQ
WMC WOA1 WREN WRVA WSB
WSM WSMB WTMJ WNBC

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

R—Chevrolet—Al Jolson
KDYL KFI KFSD KFYZ KGHL
KGIR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KTAR KTBS
KTHS KVOO WBNB WCAE WCHS
WDAF WDAY WEAF WEBC WEEI
WENR WFAA WFRB WFLA WGY
WHO WIBA WIOD WIS WJAR
WJAX WKY WLIT WLW WMC
WOAI WOC WOW WRC WRVA WSB
WSM WSMB WTAG WTAM WTIC
WTMJ WWJ WWNC

C—Morton Downey, See Monday

B—Alice Joy, See Monday

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

C—Columbia Revue, See Monday
B—Coacort Orchestra
KDKA KPRC KSO KWCR WBAL
WGAR WHAM WJZ WREN

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

C—Myrt and Marge, See Monday
R—Lanny Ross Tenor
KSD WCAE WCKY WEAF WFRB
WGY WOW WRC WTAG WTAM
WVJ

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

C—Howard Barlow, See Monday
R—Anson Weeks and Orchestra
KSD WCAE WCKY WEAF WFRB
WRC WTAG WWJ
B—Amos 'n' Andy, See Monday

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

B—Aileen Stanley, Soprano
CFCF CKGW KDYL KEX KFSD
KFYZ KGA KJR KOA KPO KPRC
KSO KTBS KWCR WBAL WBP
WBZ WBZA WCKY WEBC WENR
WFLA WIBA WIS WJZ WMC WREN
WSMB WWNC

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

C—Abe Lyman and Orchestra
CFRB CKOK KFAB KFH KLZ
KMBC KSCJ KSL KTRH KVOR
WAAB WABC WADC WBCM WBRC
WBT WCAO WCAU WCCO WDAE
WDOD WDOD WDRS WDSU WEAN
WFBM WHEC WHK WICC WISN
WJSV WLWB WLWB WMBD WNAX
WOKO WORC WQAM WSBT WSJS
WSPD WTAG WTOC

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

C—Ben Pollack and Orchestra
CKOK KFAB KLZ KMBC KRLD
KSCJ KSL KTRH KVOR WABC
WBRC WBT WCAU WCCO WDAE
WDOD WDSU WICC WISN WJSV
WLWB WMBD WNAC WNAX WOKO
WPG WSBT WSPD WTAG
R—The Goldbergs, See Monday
B—Cab Calloway, See Tuesday

SATURDAY

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

B—Orphan Annie, See Monday

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

C—America's Grub Street
CFRB CKOK KFAB KFH KSCJ KSL
KTRH KVOR WAAB WABC WADC

WBMM WBCM WBIG WBRC WBT
WCAO WCAU WCCO WDAE WDRO
WDOD WDRS WDSU WEAN WFEA
WHEC WICC WISN WJSV WKRH
WLWB WLWB WNAX WOKO WORC
WQAM WSBT WSEA WSJS WSPD
WTAG WTAG WTOC WWVA

R—Waldorf-Astoria, See Monday

B—Little German Band

KDKA KOIL KSO KWCR WBAL
WENR WJR WJZ WREN

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

B—Laws That Safeguard

KDYL KEX KFSD KFYZ KGA KGIR
KJR KOA KOIL KPO KPRC KSO
KSTP KTAR KTBS KTHS KWCR
KWK WBAL WBZ WBZA WCKY
WEBC WFLA WIBA WIOD WIS
WJAX WJR WJZ WKY WMAQ
WMC WOA1 WREN WRVA WSB
WSMB WWNC

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

C—Funnyboners, See Wednesday

B—Fields and Hall

WBAL WGAR WHAM WIOD WIS
WJR WJZ WMC

B—Orphan Annie, See Monday

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

C—Frederick William Wile

KMBC KRLD KTRH WABC WADC
WBMM WBCM WBIG WBRC WBT
WCAO WCAU WDAE WDRO WDOD
WDRS WDSU WEAN WFBM WFEA
WGR WHEC WHK WICC WJAS
WJSV WLWB WLWB WNAC WOKO
WQAM WSEA WSPD WTAG WTVR
R—Jackie Heller, Tenor
WEAF WFRB WFI WJAR WRC
WTAG

B—Anson Weeks and Orchestra

CFCF CKGW KDKA KSO KWK
WBAL WBZ WBZA WCKY WFLA
WGAR WHAM WJZ WLW WOA1
WSB WWNC

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

C—William Hall, Baritone

CFRB CKOK KTRH WABC WADC
WBCM WBIG WBRC WCAO WCAU
WDAE WDOD WDRS WDSU WEAN
WFBM WFEA WGR WICC WJAS
WJSV WLWB WLWB WNAC WOKO
WORC WQAM WSEA WSJS WSPD
WTAG WWVA

R—Ozzie Nelson and Orchestra

CKGW KGO KOA WBNB WACE
WCKY WDAF WEAF WFRB WFI
WHO WJAR WOC WTAG WWJ

B—Merle Thorpe Talk

KDYL KECA KEX KFSD KFYZ
KGA KJR KOA KOIL KPO KPRC
KSTP KTBS KWCR KWK WBAL
WBZ WBZA WEBC WENR WFLA
WGAR WHAM WIBA WIOD WIS
WJDX WJZ WKY WMC WOA1
WREN WSB WSMB WWNC

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

C—Street Singer

CFRB CKOK KMBC KMOX KRLD
KSCJ KSL KTRH KVOR WABC
WADC WBCM WBIG WBRC WBT
WCAO WCAU WCCO WDAE WDBO
WDOD WDRS WDSU WEAN WFBM
WFEA WGR WHEC WISN WJAS
WJSV WKBH WLWB WLWB WNAC
WOKO WQAM WSEA WSPD WTAG
WTAG WTOC

B—Cuckoo—Ray Knight

CKGW KFYZ KSO KWCR KWK
WBAL WBZ WBZA WCKY WEBC
WFLA WGAR WHAM WIBA WIOD
WIS WJDX WJZ WMC WREN
WSB WSMB WWNC

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

C—Easy Aces, See Tuesday

R—Archer Gibson Organist

KEX KGA KJR KOA KPO KPRC
KSD KTBS WBNB WDAF WEAF
WEBC WEEI WFI WHO WIBA WIS
WJAR WMAQ WMC WOA1 WOC
WSB WSMB WTAG WTAM WWJ
WWNC

B—American Taxpayers' League

KDKA KDYL KEX KFSD KFYZ
KGA KGHL KGIR KJR KOA KOIL
KPO KPRC KTAR KWK WAPI
WBAL WCKY WDAY WEBC WFLA
WHAM WIBA WIOD WJAX WJDX
WJZ WLS WRC WREN WSM WSMB
WWNC

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

C—Magic Voice, See Tuesday

B—Boston Symphony Orchestra

CFCF CKGW KDKA KOIL KSO
KWCR KWK WBAL WBZ WBZA
WCKY WGAR WHAM WJR WJZ
WREN

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

C—Alexander Haas Gypsy Ensemble

CFRB CKOK KFH KLZ KMBC
KSCJ KSL KTRH KTHS KVOR
WABC WADC WBCM WBIG WBRC
WBT WCAO WCCO WDAE WDRO
WDOD WDRS WDSU WEAN WFBM
WFEA WGR WHEC WICC WISN
WJSV WKBH WLWB WLWB WNAX
WOKO WORC WPG WQAM WSBT
WSEA WSPD WTAG WTAG WTOC

R—Economic World Today

KDYL KFSD KFYZ KGA KGHL
KGIR KJR KOA KPO KPRC KSD
KSTP WAPI WBPB WBNB WCHS
WDAF WDAY WEAF WEBC WEEI
WFRB WFI WFLA WGY WHO WIBA
WIOD WIS WJAR WJDX WKY
WMAQ WMC WOA1 WOC WOW
WRC WSA1 WSMB WTAG WTAM
WWJ WWNC

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

C—Chesterfield, See Monday

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

C—Edwin C. Hill

CFRB CKOK KFH KLZ KMBC
KRLD KSCJ KSL KTRH KTHS
KVOR WABC WADC WBMM WBCM
WBIG WBRC WBT WCAO WCCO
WDAE WDOD WDOD WDRS WDSU
WEAN WFAN WFBM WFEA WHEC
WHK WICC WIP WISN WJAS WJSV
WKBH WLWB WLWB WNAX WOKO
WORC WQAM WSBT WSPD WTAG
WTAG WTOC

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

C—Carborundum Band

CKOK KMBC KMOX WAAB WABC
WCAO WCAU WCCO WGN WHAS
WHK WJAS WKBW WKRC WSPD
R—George Olsen and Orchestra
KDYL KFI KFSD KFYZ KGO KGW
KHQ KOA KOMO KSD KSTP WBPB
WBNB WCAE WCHS WDAF WDAY
WEAF WEBC WEEI WFRB WFI

SATURDAY—Continued

WGY WHO WIBA WJAR WKY WLW
WMAQ WOA! WOC WOW WRC
WSAI WSB WTAG WTAM WTMJ
WWJ

E-10:00 p.m., C-9:00, M-8:00, P-7:30
C — Boswell Sisters, See Wednesday
R — Lucky Strike, See Tuesday

E-10:15 p.m., C-9:15, M-8:15, P-7:15
C — Public Affairs Institute
KFH KLZ KSCJ KTRH K TSA KVOR
WAAB WBAC WADC WBBM WBCM
WBIG WBRC WBT WCAO WCAU
WCCO WDAE WDBO WDDO WDRC
WDSU WEAN WFBM WFEA WHEC
WICC WJAS WJSV WKBH WLWB
WLBZ WMBD WNAX WOKO WORC
WPG WQAM WSBT WSJS WSPD
WTAR WTOC WWVA

B — Salon Singers
CFCF CKGW KDKA KOIL KSO
KWCR WBAL WBZ WBZA WGAR
WHAM WJZ WMAQ WREN

E-10:30 p.m., C-9:30, M-8:30, P-7:30
B — Harding Sisters, Piano
CFCF CKGW KDKA KOIL KSO
KWCR KWK WBAL WGAR WHAM
WJZ WMAQ WREN

E-10:45 p.m., C-9:45, M-8:45, P-7:45
B — Pickens Sisters
CKGW KDKA KOIL KSO KWK
WBAL WHAM WJZ WMAQ WREN

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Guy Lombardo and Orchestra
CFRB CKOK KFAB KLZ KSCJ KSL
KTRH KVOR WAAB WABC WADC
WBCM WBRC WBT WCAO WCAU
WCCO WDAE WDBO WDDO WDRC
WDSU WEAN WFBM WHEC WHK
WICC WISN WJAS WJSV WLWB
WLBZ WMBD WNAX WOKO WORC
WPG WQAM WSBT WSJS WSPD
WTAR WTOC WWVA

R — Jack Denny and Orchestra
KSD WBEN WCAE WCKY WDAF
WEAF WEEI WFBR WFI WGY
WHO WJAR WOC WRC WSAI WTAG
WWJ

B — Buccaneers, Vocal Trio
CFCF KDKA KOIL KSO KWCR
KWK WBAL WBZ WHAM WJZ
WREN

E-11:15 p.m., C-10:15, M-9:15, P-8:15
B — Lew White Organist
KOIL KSO KWCR KWK WBAL WBZ
WBZA WGAR WHAM WJR WJZ
WRC WREN

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C — Harold Stern and Orchestra
CFRB CKOK KFAB KLZ KSCJ KSL
KTRH KVOR WAAB WABC WADC
WBCM WBRC WBT WCAO WCCO
WDAE WDBO WDDO WDRC WDSU
WEAN WFBM WHEC WICC
WIP WJSV WKBH WLWB WLZ
WNAX WOKO WORC WQAM WSBT
WSJS WSPD WTAR WTOC WWVA

R — Paul Whiteman and Orchestra
KSD WBEN WCAE WCKY WDAF
WEAF WEEI WFBR WFI WGY
WHO WJAR WMAQ WOC WTAG
WWJ

E-12:00 p.m., G-11:00, M-10:00, P-9:00
C — Ted Florito and Orchestra
CKOK KFAB KFH KLZ KRLD KSCJ
KSL KTRH KVOR WABC WBRB
WBT WCAU WCCO WDDO WDSU
WEAN WFBM WHK WICC WISN
WJSV WLWB WMBD WNAX WOKO
WPG WSBT WSPD WTOC

R — Ted Weems and Orchestra
KDYL KFSD KFYR KGA KGHL
KJR KOA KPO KPRC KSD KSTP
KTAR KTBS WCAE WCKY WDAF
WDAY WEAF WFAA WFBR WFI
WGY WHO WIBA WIOD WJAR
WJAX WMAQ WMC WQAI WOC
WRC WSB WSBM WTAG WTAM
WWNC

E-12:30 a.m., C-11:30, M-10:30, P-9:30
R — Vincent Lopez and Orchestra
KDYL KEX KFYR KGA KJR KPO
KPRC KSD KSTP KTBS KVOO
WBEN WCAE WCKY WDAF WEAF
WEBC WFBR WFI WFLA WHO
WIBA WIOD WJAR WJAX WKY
WMC WQAI WOC WSB WSBM
WTAG WTAM WWNC

SUNDAY

E-11:15 a.m., C-10:15, M-9:15, P-8:15
R — Major Bowes' Family
KDYL KEX KFSD KFYR KGA KJR
KOA KPO KPRC KVOO WBAP
WDAF WDAY WEAF WFBR WFLA
WGY WHO WIOD WJAR WJAX
WKY WMC WOC WRC WSM WSBM
WTAG WTAM WTMJ WWJ WWNC

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C — Salt Lake Tabernacle Choir
CFRB CKOK KFAB KLZ KSCJ KSL
KTRH K TSA KVOR WABC WADC
WBCM WBIG WBT WCAO WCAU
WCCO WDAE WDBO WDDO WDRC
WDSU WEAN WFEA WGR WHEC
WHK WISN WJAS WJSV
WKBH WKBN WLWB WLBZ WMBD
WNAX WNAX WODX WOKO WORC
WPG WQAM WSBT WSJS WSPD
WTAG WTAR WWVA

E-12:30 p.m., C-11:30, M-10:30, P-9:30
R — Southland Sketches
CKGW KDYL KEX KFSD KFYR
KGA KGHL KGR KJR KOA KPO
KPRC KTAR WCKY WOSH WDAF
WDAY WEAF WGAR WHO WIOD
WIS WJAX WOC WSBM WTAG
WTAM WWJ WWNC

E-12:45 p.m., C-11:45, M-10:45, P-9:45
C — Street Singer
CFRB CKOK KFAB KLZ KMBC
KSCJ KSL KTRH K TSA KVOR
WABC WADC WBCM WBIG WBT
WCAO WCCO WDAE WDBO WDDO
WDSU WGR WHEC WHK WIBW
WISN WJAS WJSV WKBH WKBN
WLWB WLBZ WMBD WNAX WODX
WOKO WPG WQAM WSJS WSPD
WTAG WTAR WTOC WWVA

E-1:00 p.m., C-12:00, M-11:00, P-10:00
C — Thirty Minute Men
CFRB CKOK KFAB KLZ KMBC
KSCJ KTRH K TSA KVOR WAAB
WABC WADC WBCM WBRB WCCO
WDAE WDBO WDDO WDRC WDSU
WFBM WGR WHEC WHK WIBW

WISN WJAS WJSV WKBH WKBN
WLWB WLWB WNAX WODX WOKO
WPG WQAM WSBT WSEA WSJS
WSPD WTAG WTAR WWVA

R — K-7 Drama
WBEN WCAE WCKY WCGH WDAF
WEAF WFBR WFI WGY WJAR
WRC WSAI WTAG WTAM WWJ

E-1:30 p.m., C-12:30, M-11:30, P-10:30
C — Columbia Church of the Air
CFRB CKOK KLZ KSCJ KSL KTRH
K TSA KVOR WAAB WABC WADC
WBCM WBIG WCAO WCCO WDAE
WDBO WDDO WDRC WDSU WGR
WHEC WIBW WJAS WJSV WKBH
WLWB WLWB WNAX WODX WOKO
WPG WQAM WSBT WSJS WSPD
WTAG WTAR WTOC WWVA

R — Walter Logan Pop Concert
KSD WBEN WCAE WCKY WCGH
WDAF WEAF WFBR WFI WGY
WJAR WOW WRC WSAI WTA
WTAM WWJ

E-2:00 p.m., C-1:00, M-12:00, P-11:00
C — Smiling Ed McConnell
CKOK KERN KFBR KFPY KFRC
KGB KHJ KLZ KMBC KMOX KOIN
KOL KSL KVI KWG WABC WBBM
WBT WCCO WDSU WGR WGST
WHAS WHEC WJAS WJSV WKRC
WLAC WNAC WOWO WQAM WRR

R — International Radio Forum
CFCF CKGW KFI KFSD KGO KGW
KHQ KOA KOMO KSD KTBS WAPI
WBEN WCAE WCKY WCGH WDAF
WEAF WEEI WFAA WFBR WFLA
WGY WIOD WIS WJAR WJAX
WJDX WMC WQAI WOW WRVA
WSAI WSB WSM WSBM WTAG
WTAM WWJ WWNC

B — Monarch Mystery Toner
KDKA KDYL KFI KFYR KGOK KOA
KOIL KSO KSTP KWCR KWK WBZ
WBZA WCKY WDAY WEBC WGAR
WHAM WIBA WJAR WJAX WJR
WJZ WMAQ WREN WTMJ WWNC

E-2:15 p.m., C-1:15, M-12:15, P-11:15
C — Victor Arden and Orchestra
CKOK KMBC KMOX WABC WBBM
WCAO WCAU WGR WHEC WHK
WJAS WKRC WNAC WOKO WOWO

R — Clyde Doerr's Saxophone Octet
CFCF CKGW KFI KFSD KGO KGW
KHQ KOA KOMO KPRC KSD KTBS
KYW WAPI WBEN WCAE WCKY
WCGH WDAF WEAF WFAA WFBR
WFLA WGY WIOD WIS WJAR
WJAX WJDX WY WMC WQAI
WOW WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WWJ WWNC

E-2:30 p.m., C-1:30, M-12:30, P-11:30
R — Moonshine and Honeysuckle
CFCF CKGW WCAE WCKY WCGH
WDAF WEAF WEEI WFBR WGY
WHO WJAR WMAQ WOC WOW
WRC WTAG WTAM WWJ

B — Yeast Foamers
KDKA KDYL KFI KFSD KFYR
KGHL KGR KGO KGW KHQ KOA
KOIL KOMO KPRC KSO KSTP
KTAR KTBS KVOO KWCR KWK
KYW WAPI WBAL WBZ WBZA
WDAY WEBC WFAA WFLA WGAR
WHAM WIBA WIOD WIS WJAX
WJDX WJR WJZ WKY WLW WMC

SUNDAY—Continued

WOAI WPTF WREN WRVA WSB WSM WSMB WTMJ WWNC

E-2:45 p.m., C-1:45, M-12:45, P-11:45 R — Hoosier Editor

KERN KFAB KFBC KFPY KFRC KGB KHJ KLZ KMBC KMOX KOIN KOL KOMA KSL KVI KWG WABC WBBM WCAH WCAO WCAU WCCO WGR WHAS WHK WJAS WJSV WKRC WMT WNAC WOWO WRR

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

R — N. Y. Philharmonic Orchestra

CFRB CKOK KFAB KFH KLZ KMBC KRLD KSCJ KSL KTRH KVOR WAAB WABC WADC WBCM WBIG WBRC WBT WCAO WCCO WDAE WDBO WDOO WDRC WDSU WFAN WFBM WFEA WHEC WHK WIBW WICC WIP WISN WJAS WJSV WKBH WKBN WKBW WLWB WLWZ WMBD WODX WOKO WORC WQAM WSBT WSFA WSJS WSPD WTAT WTAR WTCO WWVA

R — Wayne King and Orchestra

KDYL KFI KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTBS KTHS KVOD KYW WDAF WCAE WKY WCSH WDAF WFAE WFCB WEEI WFAA WFBW WGY WHO WIBA WJAR WKY WLIT WOAI WOC WOV WRC WSAI WTAM WTAM WTMJ WWJ

B — Our American Music

KOIL KWCR KWK WBAL WFLA WGAR WIOD WJAX WJZ WMAQ WREN WRVA WSB WSM WSMB WWNC

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

R — Dr. S. Parkes Cadman

KDYL KFSB KFJR KGHL KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTAR KTHS KVOD WBEN WCAE WCSI WDAF WDAF WFAE WFCB WEEI WFBW WGY WHO WIBA WJAR WKY WLIT WOAI WOC WOV WRC WSAI WTAM WWJ

B — Manhattan Merry-Go-Round

KDKA KOIL KWCR KWK KYW WBAL WBBM WBZA WHAM WJZ WREN

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

R — Father Coughlin

KMOX KSTP KYW WCAO WCAU WDRC WEAN WFBL WFEA WGAR WGR WHB WICC WJAS WJR WLWZ WLW WMT WNAC WNBH WOC WOL WOKO WOR WORC

R — Iodent—Jane Froman

KDYL KFI KFSB KFJR KGHL KGIR KGO KGW KHQ KOA KOMO KPRC KTAR KTBS KTHS KVOD WAPI WBAP WBEN WCAE WCSI WDAF WDAY WFAE WFCB WEEI WFBW WFLA WGY WIBA WIOD WIS WJAR WJAX WJDX WKY WLIT WMAQ WMC WOAI WOW WPTF WRC WRVA WSAI WSB WSM WSMB WTAT WTAM WTMJ WWJ WWNC

B — Temple of Song

CFBC KDKA KFI KFSB KFJR KGHL KGO KGW KOA KOIL KSO KSTP KTBS KWCR KWK WBAL WBZ WBZA WCKY WVCB WGAR

WHAM WIBA WIOD WIS WJAX WJR WJZ WKY WMAQ WMC WREN WRVA WSB WSM WSMB WWNC

E-4:15 p.m., C-3:15, M-2:15, P-1:15

R — Wildroot—Vee Lawnhurst

KDYL KFI KGO KGW KHQ KOA KOMO WBEN WCAE WCSI WDAF WFAE WFBW WGY WJAR WLIT WMAQ WOW WRC WSAI WTAT WTAM WWJ

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

R — Squibb's Program

WBEN WCAE WCSI WDAF WFAE WFBW WFBW WGY WJAR WMAQ WOW WRC WTAT WTAM WWJ

B — National Youth Conference

KDYL KFSB KFJR KGHL KGO KGW KHQ KOA KOIL KOMO KPRC KSO KSTP KTAR KVOD KWCR KWK WAPI WBAL WBZ WBZA WDAY WFCB WENR WHAM WIOD WIS WJAX WJDX WJZ WMC WOAI WPTF WREN WRVA WSB WSM WWNC

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

C — Roses and Drums

CKOK KMBC KMOX KRLD WAAB WABC WADC WCAO WCCO WDSU WGN WGR WHAS WHK WJAS WJSV WKRC

R — Lowell Thomas

WBEN WCAE WFAE WEEI WFBW WGY WJAR WRC WSAI WTAM WTMJ WWJ

B — National Vespers

KFSB KFJR KGHL KGO KGW KHQ KOA KOIL KOMO KPRC KSO KTAR KTBS KWCR KWK WAPI WBAL WBAP WBZ WBZA WFCB WFLA WGAR WIOD WIS WJAX WJDX WJZ WOAI WPTF WREN WSB WSM WSMB WWNC

E-5:15 p.m., C-4:15, M-3:15, P-2:15

R — Big Ben's Dream Dramas

WBEN WCAE WCSI WFAE WFAE WFBW WFI WGY WJAR WMAQ WRC WSAI WTAT WTAM WWJ

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

C — Blue Coal Musical Revue

WAAB WABC WCAO WCAU WDRC WEAN WFBL WGR WHEC WHF WOKO

B — Pages of Romance, Drama

KDKA KOIL KSO KWCR KWK KYW WBAL WBZ WBZA WGAR WJR WJZ WLW WREN

B — Josef Koestner's Orchestra

KDYL KFI KFJR KGHL KGIR KGO KGW KHQ KOA KOMO KPRC KSTP KTAR KTBS KVOD WAPI WBAP WDAF WDAY WFCB WIBA WJDX WKY WMC WOAI WSB WSM WSMB WTMJ

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

C — H. V. Kaltenborn, See Tuesday

R — Catholic Hour

KDYL KEX KFJR KGHL KGIR KJR KOA KPRC KSD KTAR KTBS KVOD WAPI WBAP WBEN WCAE WCKY WCSI WDAF WDAY WFAE WFCB WEEI WENR WFBW WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WLIT WMC WOAI WOC WOW WRC WRVA

WSAI WSB WSM WSMB WTAT WTAM WWJ WWNC

B — Josef Koestner's Orchestra

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

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

C — Little Jack Little

CFRB CKOK KFAB KFH KLZ KRLD KSCJ KSL KVOR WADC WBBM WBCM WBIG WBRC WBT WCAO WCAU WDBO WDOO WDRC WDSU WEAN WFEA WHEC WIBW WICC WISN WJAS WJSV WKBH WKBN WLWB WLWZ WNAX WOKO WORC WPG WQAM WSBT WSFA WSJS WSPD WTAR WTCO WWVA

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

C — Cathedral Hour

CFRB CKOK KFH KLZ KMBC KRLD KSCJ KSL KVOR WAAB WABC WADC WBBM WBCM WBIG WBRC WBT WCAO WCAU WCCO WDAE WDBO WDOO WDRC WDSU WFBM WFEA WHEC WIBW WICC WISN WJAS WJSV WKBH WKBN WKBW WLWB WLWZ WNAX WOKO WORC WQAM WSBT WSFA WSJS WSPD WTAR WTCO WWVA

R — Our American Schools

KDYL KECA KEX KFSB KFJR KGA KOA KPO KPRC KSD KSTP KTBS KVOD WBAP WBEN WCAE WCSI WDAF WFAE WFCB WEEI WENR WFBW WFLA WGY WIBA WIOD WJAR WKY WLIT WMC WOAI WOW WPTF WRC WRVA WSAI WSM WSMB WTAT WWJ WWNC

B — Paul Whiteman's Rhythmic Concert

CFBC CKGW KOIL KSO KWCR KWK WBAL WBZ WBZA WCKY WGAR WHAM WJR WJZ WREN

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

C — World's Business, Dr. Klein

KFH KLZ KMBC KRLD KSCJ KSL KTRH KVOR WBAC WACO WADC WBCM WBIG WBRC WBT WCAO WCCO WDAE WDBO WDOO WDRC WDSU WEAN WFAM WFBM WFEA WGR WHEC WIBW WICC WIP WISN WJAS WJSV WKBH WKBN WLWB WLWZ WNAC WNAX WOKO WORC WPG WQAM WSBT WSFA WSJS WSPD WTAR WTCO WWVA

R — Borrah Mineitch, Harmonica

KDYL KFI KFSB KFJR KGO KGW KOA KPRC KTBS KVOD WBEN WCAE WCKY WDAF WDAY WFAE WFCB WFBW WFLA WGY WIBA WIOD WIS WJAR WJAX WMAQ WOAI WRC WSMB WTAM WWJ WWNC

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

C — Walter Smith and Concert Band

CKOK KFH KLZ KMBC KRLD KSCJ KSL KTRH KVOR WABC WADC WBCM WBIG WBRC WBT WCAO WCCO WDAE WDBO WDOO WDRC WDSU WEAN WFAN WFBM WFEA WGR WHEC WIBW WICC WIP WJSV WKBN WKBW WLWB WLWZ WNAC WNAX WOKO WQAM WSBT WSFA WSJS WSPD WTAR WTCO WWVA

R — Wheatonville, See Monday

SUNDAY—Continued

E-7:30 p.m., C-6:30, M-5:30, P-4:30
R—Pikens Sisters
CFCF KSD WBEN WCAE WDAF
WEAF WFBR WGY WHO WJAR
WOC WRC WSAI WTAG WTIC WWJ
B—Great Moments in History
KDKA KDYL KFI KFSD KFJR
KGO KGW KHQ KOA KOIL KOMO
KPRC KSTP KTAR KVOO KWCR
KWK WBAL WBZ WBZA WDAY
WEBC WFAA WFLL WGAR WHAM
WIBA WIOD WJAX WJDX WJR
WJZ WKY WLS WLW WMC WOAI
WPTF WREN WRVA WSB WSM
WSMB WTAMJ WWNC

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C—Angelo Patri, Your Child
CKOK KMBC KMOX WABC WCAO
WCAU WCCO WFBL WGN WGR
WHAS WHK WJAS WJSV WKRC
WNAC
R—Trade and Mark
KSD WBEN WCAE WDAF WEAF
WFBR WGY WJAR WMAQ WRC
WSAI WTAG WTAM WWJ

E-8:00 p.m., C-7:00, M-6:00, P-5:00
R—Chase and Sanborn—Eddie Cantor
CFCF CKGW KDYL KFI KFSD
KFJR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP KTAR KVOO
WBEN WCAE WGSB WDAF WDAY
WEAF WEBC WFAA WFBR WFLA
WGY WHO WIOD WIS WJAR WJDX
WKY WLIT WLW WMAQ WMC
WOAI WOC WOW WRC WSB WSM
WSMB WTAG WTAM WTIC WTMJ
WWJ WWNC
B—Russian Gaities
KDKA KOIL KSO KWCR WBAL
WBZ WBZA WGAR WJR WJZ WLS
WREN

E-8:15 p.m., C-7:15, M-6:15, P-5:15
C—Andre Kostelanetz Presents
CKOK KLZ KMBC KMOX KRLD
KSCJ KSL KTRH KTSB KVOR
WABC WADC WBBM WBCM WBRC
WBT WCAO WCAU WCCO WDAE
WDBO WDOJ WDRC WDSU WEAN
WFBM WFEA WGR WHEC WHK
WIBW WISN WJAS WJSV WKHN
WLWB WLWZ WNAC WNAX WOKO
WORC WSBT WSPA WSJS WSPD
WTAR WTOC WWVA

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C—Foregin Legion
CKOK KLRA KMBC KRLD KSCJ
KSL KTSB WABC WBCM WBT
WCAH WCAO WCAU WCCO WDBJ
WDBO WDOJ WDRC WDSU WEAN
WFBM WFEA WGR WGST WHEC
WHK WHP WIBW WICC WISN
WJAS WKBN WKBN WLWB WLWZ
WMT WNAC WNAX WODX WOKO
WORC WREC WSPA WSJS WSPD
B—Red Adams Drama
KDKA KSO KWCR WBAL WBZ
WBZA WGAR WJR WJZ WLS WREN

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C—Fred Allen's Bath Club
CKOK KDB KERN KFBK KFPY
KFRC KGB KHJ KLRA KLZ KMBC
KMJ KMOX KOIN KOL KOMA KSCJ
KSL KYI KWG WABC WADC WBT
WCAH WCAO WCAU WCCO WDAE

WDBO WDOJ WDRC WDSU WEAN
WFBL WFBM WGN WGR WGST
WHAS WHEC WHK WISN WJAS
WJSV WKRC WLAC WMT WNAC
WOKO WORC WOWO WQAM WREC
WSPD WTAR
R—General Electric Concert
KDYL KFI KFSD KFJR KGO KGW
KHQ KOA KOMO KPRC KSD KSTP
KTAR KTBS KTHS WAPI WBEN
WCAE WGSB WFAA WFBR WFI
WFLL WGY WHO WIBA WIS WJAR
WJAX WJDX WKY WOAI WOC
WOW WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTMJ WWJ
WWNC
B—Warden Lawes-Sing Sing
KDKA KOIL KSO KWCR KWK
KYW WBAL WBZ WBZA WGAR
WHAM WJR WJZ WLW WREN

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C—Pennzoll Parade
CKOK KLRA KMBC KMOX KOMA
KTSB WABC WADC WBRC WBT
WCAO WCAU WCCO WDRC WEAN
WFBL WGN WGR WGST WHAS
WHEC WJAS WJSV WKRC WLAC
WLWZ WNAC WOKO WSPD
R—Album of Familiar Music
KDYL KFI KGO KGW KHQ KOA
KOMO KPRC KSD KSTP KTHS
WAPI WBEN WCAE WCKY WGSB
WEAF WENR WFAA WFBR WFI
WFLA WGY WHO WIOD WJAR
WJAX WJDX WKY WMC WOAI
WOC WOW WRC WRVA WSAI WSB
WSM WSMB WTAG WTAM WTMJ
WWJ
B—Walter Winchell
KDKA KOIL KSO KWCR KWK
KYW WBAL WBZ WBZA WGAR
WHAM WJR WJZ WLW WREN

E-10:00 p.m., C-9:00, M-8:00, P-7:00
B—D. W. Griffith, See Wednesday

E-10:15 p.m., C-9:15, M-8:15, P-7:15
R—David Lawrence
KSD KTBS KVOO WEAF WENR
WFBR WFI WFLA WGY WHO WIOD
WIS WJAR WJDX WKY WOAI WOC
WOW WRC WSAI WWNC

E-10:30 p.m., C-9:30, M-8:30, P-7:30
C—Ernest Hutcheson, Pianist
CFRB CKOK KFH KLZ KMBC
KSCJ KTRH KTSB KVOR WAAB
WABC WADC WBCM WBT WCAO
WCAU WCCO WDAE WDBO WDOJ
WDRC WDSU WEAN WFBM WFEA
WGR WHEC WHK WIBW WICC
WISN WJAS WJSV WKBN WLWB
WLWZ WMBD WODX WOKO WORC
WPG WQAM WSJS WSPD WTAR
WTOC
R—Romances
KSD WBEN WCAE WDAF WEAF
WEEL WFBR WFI WGY WHO WIOD
WIS WJAR WJAX WMAQ WOC WOW
WRC WTAG WTAM WWJ WWNC
B—Orange Lantern Drama
CFCF CKGW KDKA KSO KWCR
KWK WBAL WGAR WJZ WREN

E-10:45 p.m., C-9:45, M-8:45, P-7:45
R—Sunday at Seth Parker's
CFCF CKGW KDYL KFSD KFJR
KGHL KGIR KGO KGW KHQ KOA
KPRC KSTP KTAR KTBS KTHS
KYW WAPI WBAP WBEN WCAE

WCKY WGSB WDAF WDAY WEAF
WEBC WEEL WFBR WFI WFLA
WGY WHO WIBA WIOD WIS WJAR
WJAX WJDX WMC WOAI WOC
WOW WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTMJ WWJ
WWNC

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C—The Sunches
CKOK KFAB KFH KLZ KSCJ KTRH
KVOR WAAB WABC WADC WBCM
WBRC WBT WCAO WDAE WDBO
WDOJ WDRC WDSU WEAN WFAA
WFBM WGR WHEC WIBW WICC
WIP WISN WJAS WJSV WKBN
WLWB WLWZ WMBD WNAX WODX
WOKO WPG WQAM WSJS WSPD
WTAR WTOC

E-11:15 p.m., C-10:15, M-9:15, P-8:15
C—Angelo Patri, Your Child
KDB KERN KFBK KFPY KFRC
KGB KHJ KLZ KOIN KOL KSL KVI
KWG
B—Sam Herman, Zylphonist
CFCF CKGW KOIL KSO KWCR
KWK WBAL WGAR WHAM WJR
WJZ WMAQ WREN
B—Walter Winchell
KDYL KFI KGHL KGIR KGO KGW
KHQ KOA KOMO KPRC KTAR
KTBS KTHS WAPI WBAP WJDX
WKY WMC WOAI WSB WSM WSMB

E-11:30 p.m., C-10:30, M-9:30, P-8:30
C—Isham Jones and Orchestra
CFRB KTRH WABC WADC WBCM
WBRC WBT WCAO WCAU WCCO
WDAE WDBO WDOJ WDRC WDSU
WEAN WGR WICC WISN WJSV
WKBN WLWZ WNAC WOKO WPG
WQAM WSBT WSJS WSPD WTAR
WTOC
C—Pennzoll Parade
KDB KERN KFBK KFPY KFRC
KGB KHJ KLZ KMJ KOIN KOL
KSL KVI KWG
R—Melodic Serenade
KDYL KFSD KFJR KGHL KGO
KHQ KPRC KSTP KTAR KTBS
WAPI WBAP WCAE WGSB WDAF
WEAF WEBC WENR WFBR WFLA
WGY WHO WIBA WIS WJAR WMC
WOC WOW WRC WSB WSMB WTAG
WTAM WTIC WWNC
B—Jesse Crawford, Organist
KDKA KOIL KSO KWCR KYW
WBAL WBZ WBZA WCKY WHAM
WJZ WREN

E-12:00 p.m., C-11:00, M-10:00, P-9:00
C—Ben Pollack and Orchestra
CKOK KFAB KLZ KMOX KSCJ
KTRH KVOR WABC WBRC WBT
WCAU WCCO WDAE WDOJ WEAN
WGR WIBW WICC WISN WJSV
WLWB WMBD WNAC WNAX
WOKO WPG WSBT WSPD
R—Gus Van and Joe Furst
WCAE WEAF WFBR WGY WJAR
WOW WTAM
B—William Stoess and Orchestra
KFJR KGHL KGO KGW KHQ KOA
KOIL KOMO KPRC KSTP KTBS
KWCR KWK WBZ WBZA WDAY
WEBC WENR WFLA WGAR WHAM
WIBA WIOD WIS WJR WJZ WKY
WLW WMC WREN WSB WSM
WSMB WWNC

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

BANDS

Carborundum Band, 9:30 p.m., Saturday, C.
Little German Band, 6:00 p.m., Saturday, B.

CONCERTS

Howard Barlow, 11:00 p.m., daily, ex. Sat. and Sun., C.
Boston Symphony, 8:15 p.m., Saturday, B.
Concert Footlights, 7:30 p.m., Thursday, B.
Concert Orchestra, 10:30 p.m., Friday, B.
Gauchos, 11:00 p.m., Sunday, C.
General Electric, 9:00 p.m., Sunday, R.
Alexander Haas, 8:30 p.m., Saturday, C.
L'Heure Exquise, 10:30 p.m., Wednesday, B.
Walter Logan, 1:30 p.m., Sunday, R.
N. Y. Philharmonic, 3:00 p.m., Sunday, C.
Russian Gaieties, 8:00 p.m., Sunday, B.
Walter Smith Concert, 7:15 p.m., Sunday, C.
Cesare Sodero, 11:15 p.m., daily, ex. Fri., Sat. and Sun., B.
Symphony Concert, 9:00 p.m., Wednesday, R.
Waldorf-Astoria, 6:00 p.m., daily, ex. Sunday, R.

DANCE BANDS

Ben Bernie, 12 mid., Wed., B; 9:00 p.m. and 12:30 a.m. Tuesday, R.
Don Bestor, 11:00 p.m., Thursday, R.
Cab Calloway, 12 mid., Tues. and Fri., B.
Jack Denny, 11:30 p.m., Mon. and Thurs.; 11 p.m., Sat., R.
Clyde Doerr, 2:15 p.m., Sunday, R.
Ted Fiorito, 12 mid., Saturday, C.
George Hall, 6:15 p.m., Wed. and Fri., C.
Buddy Harrod, 6:45 p.m., Monday, C.
Joe Haymes, 6:45 p.m., Thursday, C.
Isham Jones, 11:30 p.m., Sun., Tues., Wed. and Thurs., C.
Len Joy, 9:30 p.m., Thursday, B.
Wayne King, 3:00 p.m., Sun.; 8:30 p.m., Tues., R.
Del Lampe, 6:00 p.m., Mon. and Fri., B.
Guy Lombardo, 11:30 p.m., Mon.; 9:30 p.m., Wed.; 11:00 p.m., Sat., C.
Vincent Lopez, 12:30 a.m., Saturday, R.
Abe Lyman, 12 mid., Mon. and Thurs.; 11:30 p.m., Fri.; 8:45 p.m., Tues., Wed. and Thurs., C.
Dolf Martin, 7:30 p.m., Monday, C.
Ozzie Nelson, 7:15 p.m., Saturday, R.
George Olsen, 9:30 p.m., Saturday, R.
Ben Pollack, 12 mid., Sun. and Fri., C.
Don Redman, 12 mid., Tues. and Wed., C.
Harold Stern, 11:30 p.m., Saturday, C.
William Stoess, 12 mid., Sunday, B.
Rudy Vallee, 8:00 p.m., Thursday, R.
Anson Weeks, 7:45 p.m., Tues.; 7:00 p.m., Sat., B; 11:00 p.m., Fri., R.
Ted Weems, 11:00 p.m., Mon.; 12 mid., Sat., R.
Paul Whiteman, 6:30 p.m., Sun., B; 9:30 p.m., Mon.; 11:30 p.m., Sat., R.

DIALOG

Fred Allen, 9:00 p.m., Sunday, C.
Amos 'n' Andy, 7 and 11 p.m., daily, ex. Sat. and Sun., B.
Burns and Allen, 9:30 p.m., Wednesday, C.
Cuckoo, 7:45 p.m., Saturday, B.
Easy Aces, 8:00 p.m., Tues., Thurs. and Sat., C.
Howard and Shelton, 9:00 p.m., Tues. and Fri., C.
Marx Brothers, 7:30 p.m., Monday, B.
Baron Munchausen, 10:00 p.m., Thursday, R.
Ken Murray, 8:00 p.m., Wednesday, R.
Reis and Dunn, 6:15 p.m., Mon. and Tues., C.
Stoopnagle and Bud, 9:30 p.m., Thursday, C.
Mr. Twister, 10:00 p.m., Thursday, B.

DRAMA

Red Adams, 8:30 p.m., Sunday, B.
Big Ben, 5:15 p.m., Sunday, R.
Death Valley Days, 9:00 p.m., Thursday, B.
Eno Crime Club, 8:00 p.m., Tues. and Wed., B.
First Nighter, 9:00 p.m., Friday, B.
Foreign Legion, 8:30 p.m., Sunday, C.
Fu Manchu Mystery, 8:30 p.m., Monday, C.
Goldbergs, 7:45 p.m. and 12 mid., daily, ex. Sat. and Sun., R.
Great Moments in History, 7:30 p.m., Sunday, B.
Griffith's Hollywood, 10:00 p.m., Sun. and Wed., B.

Sherlock Holmes, 9:00 p.m. and 12:15 a.m., Wednesday, B.
K-7, 1:00 p.m., Sunday, R.
Phillips Lord, 8:45 p.m., Mon., Tues. and Wed., B.
Magic Voice, 8:15 p.m., Tues. and Sat., C.
March of Time, 8:30 p.m., Friday, C.
Moonshine and Honeysuckle, 2:30 p.m., Sunday, R.
Myrt and Marge, 7:00 and 10:45 p.m., daily, ex. Sat. and Sun., C.
Mysteries in Paris, 9:30 p.m., Monday, C.
Orange Lantern, 10:30 p.m., Sunday, B.
Pages of Romance, 5:30 p.m., Sunday, B.
Rin Tin Tin, 8:30 p.m., Thursday, B.
Buck Rogers, 7:15 p.m., daily, ex. Sat. and Sun., C.
Roses and Drums, 6:00 p.m., Sunday, C.
The Shadow, 8:30 p.m., Wednesday, R.
Soonyland Sketches, 8:00 p.m., Monday, R.
Squibb's, 4:30 p.m., Sunday, R.
Wheatenaville, 7:15 p.m., daily, ex. Fri. and Sat., R.

PIANO AND ORGAN

Jesse Crawford, 11:30 p.m., Sunday, B.
Acher Gibson, 10:30 p.m., Mon., B; 8:00 p.m., Sat., R.
Harding Sisters, 10:30 p.m., Saturday, B.
Ernest Huteheson, 10:30 p.m., Sunday, C.
Vee Lawnhurst, 4:15 p.m., Sunday, R.
Ohman and Arden, 2:15 p.m., Sun., C.; 9:30 p.m., Sun. R.
Lew White, 11:15 p.m., Saturday, B.

POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p.m., Monday, R.
Album of Familiar Music, 9:30 p.m., Sunday, R.
Bath Club, 9:00 p.m., Sunday, C.
Blue Coal Revue, 5:30 p.m., Sunday, C.
Major Bowes' Family, 11:15 a.m., Sunday, R.
California Melodies, 9:30 p.m., Tuesday, C.
Chase and Sanborn, 8:00 p.m., Sunday, R.
Cities Service, 8:00 p.m., Friday, R.
Clicquot Club Eskimos, 8:00 p.m., Monday, B.
Columbia Revue, 10:30 p.m., Mon., Wed. and Fri., C.
Contented Program, 10:00 p.m., Monday, R.
Corn Cob Pipe Club, 10:00 p.m., Wednesday, R.
Firestone, 8:30 and 11:30 p.m., Monday, R.
Five Star Theatre, 10:00 p.m., Tues. and Thurs., C.; 7:30 p.m., Mon., Wed. and Fri., B.
Jack Frost's Melody, 9:30 p.m., Monday, B.
Garcia's Novelty Orchestra, 9:30 p.m., Tuesday, B.
San Herman, 11:15 p.m., Sunday, B.
Household Musical Memories, 9:00 p.m., Tuesday, B.
Iodent Program, 4:00 p.m., Sunday, R.
Lucky Strike, 10:00 p.m., Tues., Thurs. and Sat., R.
Manhattan Merry-Go-Round, 3:30 p.m., Sunday, B.
Matinee of the Air, 2:15 p.m., Sunday, C.
Maxwell House, 9:00 p.m., Thursday, R.
Borrah Minevitch, 7:00 p.m., Sun.; 7:15 p.m., Fri., R.
Nestle's Program, 8:00 p.m., Friday, B.
Pennzoil Parade, 9:30 and 11:30 p.m., Sunday, C.
Pond's Program, 9:30 p.m., Friday, R.
Royal Vagabonds, 8:00 p.m., Wednesday, R.
Sinclair Minstrels, 9:00 p.m., Monday, B.
Wildroot Institute, 4:15 p.m., Sunday, R.
Ed Wynn, 9:30 p.m., Tuesday, R.
Yeast Foamers, 2:30 p.m., Sunday, B.

QUARTETS

Mills Brothers, 9:15 p.m., Mon. and Thurs., C.
Revelers, 4:30 p.m., Sunday, R.
Singing Cylinders, 5:30 and 6:00 p.m., Sunday, B.
Southernaires, 12:30 p.m., Sunday, R.

RELIGIOUS

Dr. S. Parkes Cadman, 3:30 p.m., Sunday, R.
Cathedral Hour, 6:30 p.m., Sunday, C.
Catholic Hour, 6:00 p.m., Sunday, R.
Church of the Air, 1:30 p.m., Sunday, C.
Rev. Charles E. Coughlin, 4:00 p.m., Sunday.
Mid-Week Hymn Sing, 6:30 p.m., Tuesday, R.
National Vespers, 5:00 p.m., Sunday, B.
National Youth Conference, 4:30 p.m., Sunday, B.
Our Church Music, 3:00 p.m., Sunday, B.

Seth Parker's, 10:45 p.m., Sunday, R.
Salt Lake Choir, 12 noon, Sunday, C.
Temple of Song, 4:00 p.m., Sunday, B.

SINGERS

Ilomay Bailey, 10:30 p.m., Tues. and Thurs., B.
Al Bernard, 6:30 p.m., Monday, R.
Louise Bernhardt, 7:30 p.m., Thursday, B.
Boswell Sisters, 10:00 p.m., Wed. and Sat., C.
Buccaneers, 11:00 p.m., Saturday, B.
Eddie Cantor, 8:00 p.m., Sunday, R.
Charles Carile, 10:45 p.m., Thursday, C.
Russ Columbo, 12 mid., Monday, B.
Richard Crooks, 8:30 and 11:30 p.m., every other Mon., R.
Bing Crosby, 9:00 p.m., Wed. and Sat., C.
Vaughn De Leath, 6:30 p.m., Mon.; 6:00 p.m., Wed. and Fri., C.

Dennis and Reese, 7:00 p.m., Tuesday, R.
Do Re Mi Girls, 9:15 p.m., Friday, C.
Morton Downey, 10:00 p.m., Mon. and Fri., C; 9:30 p.m., Wed., B.

Jessica Dragonette, 8:00 p.m., Friday, R.
Mary Eastman, 8:15 p.m., Sunday, C.
Eddie and Ralph, 9:30 p.m., Fri., B.
Ruth Etting, 9:00 p.m., Mon. and Thurs., C.
Fields and Hall, 6:45 p.m., Saturday, B.
Jane Froman, 4:00 p.m., Sun.; 7:00 p.m., Mon., Thurs. and Fri., R.

Jack Fulton, 8:30 p.m., Monday, B.
Funnyboners, 6:45 p.m., Wed. and Sat., C.
William Hall, 9:15 p.m., Fri., 7:15 p.m., Sat., C.
Jackie Heller, 7:00 p.m., Saturday, R.

Al Jolson, 10:00 p.m., Friday, R.
Alice Joy, 10:00 p.m., Mon and Fri.; 10:15 p.m., Wed., B.
Little Jack Little, 6:15 p.m., Sunday, C.
Nino Martini, 11:00 p.m., Wed. and Fri., C.
Smiling Ed McConnell, 2:00 p.m., Sunday, C.
Tommy McLaughlin, 9:15 p.m., Tuesday, C.
Monarch Mystery Tenor, 2:00 p.m., Sunday, B.
Morin Sisters, 10:00 p.m., Tuesday, B.

Frank Munn, 9:30 p.m., Sunday, R.
Donald Novis, 9:30 p.m., Wed., B; 6:35 p.m., Thurs., R.
William O'Neal, 10:45 p.m., Tues.; 9:30 p.m., Thurs., C.
Fickens Sisters, 10:45 p.m., Sat., B; 7:30 p.m., Sun., R.
Carson Robison, 7:15 p.m., Wed. and Thurs., B.
Lanny Ross, 11:00 p.m., Tues., B; 9:00 p.m., Thurs.; 10:45 p.m., Fri., R.
Salon Singers, 10:15 p.m., Saturday, B.

Sanderson-Crumit, 8:00 p.m., Tuesday, R.
Ethel Shutta, 9:30 p.m., Saturday, R.
Singin' Sam, 8:15 p.m., Mon., Wed. and Fri., C.
Kate Smith, 8:30 p.m., Tues., Wed. and Thurs., C.
Aileen Stanley, 11:15 p.m., Friday, B.
Street Singer, 12:45 p.m., Sun.; 7:45 p.m., Sat., C.
Tastyest Jesters, 7:15 p.m., Monday, B.
Irene Taylor, 7:30 p.m., Tuesday, R.
Three Keys, 11:00 p.m., Thursday, B.
Three X Sisters, 7:30 p.m., Wed. and Fri., C.
Lawrence Tibbett, 8:30 and 11:30 p.m., every other Mon. R.
Trade and Mark, 8:00 p.m., Fri., C; 7:45 p.m., Sun., R.
Gus Van, 6:00 p.m., Tues., B; 12:00 mid., Sun.; 9:30 p.m., Sat., R.
Whispering Jack Smith, 8:00 p.m., Mon. and Wed., C.

TALKS

America's Grub Street, 6:00 p.m., Saturday, C.
American Taxpayers' League, 8:00 p.m., Saturday, B.
Better Reception, 6:30 p.m., Thursday, C.
Boske Carter, 7:45 p.m., daily, ex. Sat. and Sun., C.
Economic World Today, 8:30 p.m., Saturday, R.
William Hard, 6:45 p.m., Tuesday, R.
Edwin C. Hill, 10:30 p.m., Tues. and Thurs.; 9:15 p.m., Wed.; 9:30 p.m., Fri.; 9:15 p.m., Sat., C.
Horlick's Health, 8:30 p.m., Tues. and Fri., B.
International Forum, 2:00 p.m., Sunday, R.
H. V. Kaltenborn, 6:00 p.m., Sun., Tues. and Thurs., C.
Dr. Julius Klein, 7:00 p.m., Sunday, C.
Frederick Landis, 2:45 p.m., Sunday, C.
Warden Lawes, 9:00 p.m., Sunday, B.
David Lawrence, 10:15 p.m., Sunday, R.
Laws That Safeguard, 6:30 p.m., Saturday, B.
National Radio Forum, 10:30 p.m., Monday, R.
Our American Schools, 6:30 p.m., Sunday, R.
Angelo Patri, 7:45 and 11:15 p.m., Sunday, C.
Public Affairs Institute, 10:15 p.m., Saturday, C.
Radio in Education, 7:15 p.m., Tuesday, B.
Nellie Revell, 11:00 p.m., Wednesday, R.
Sigmond Spaeth, 10:15 p.m., Tuesday, B.
Lowell Thomas, 6:45 p.m., daily, ex. Sat. and Sun., B; 5:00 p.m., Sunday, R.
Merle Thorpe, 7:15 p.m., Saturday, B.
Howard Thurston, 8:45 p.m., Thurs. and Fri., B.
Carveth Wells, 10:30 p.m., Wednesday, R.
Frederic William Wile, 7:00 p.m., Saturday, C.
Walter Winchell, 9:30 and 11:15 p.m., Sunday, B.

KEY TO SYMBOLS

As Shown in the Index by
Frequencies and Dial Numbers

Frequency is shown 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. R-C indicates Remote Control. Where space permits, names of hotels or other buildings used in announcements are shown in parenthesis. These are not mail addresses.

| | | | |
|---|--|--|--|
| | Second Column Symbols | B National "Blue" network. | P Has construction permit only. |
| a | Verifies reception for return postage. | C Columbia network. | Q Great Lakes network. |
| b | Verifies only occasionally. | D Daytime only. | R National "Red" network. |
| c | Does not verify. | Dn Daytime with occasional evening hours. | S Sunday only. |
| d | Verification 10c; letter 25c. | E Trans-Canada network. | T Don Lee System. |
| e | Sends Ekko stamp for 10c. | F Canadian National Railways network. | U Dixie network. |
| f | Sends Ekko stamp for 5c. | G All Canadian networks. | V Maritime Broadcasting network. |
| g | Sends Ekko stamp for postage. | H Yankee network. | W Curtis-Indiana network. |
| h | Sends own station stamp for 10c. | J Orange and gold network. | X Has permit to increase power. |
| i | Sends own station stamp for 5c. | K Mexican networks. | Y Has permit to change location. |
| j | Sends own station stamp for postage. | L Canadian Pacific Ry. network (Dominion). | Z Has permit to change frequency. |
| k | Has no stamps. | M Canadian Radio Corp. network. | a-b-c. Small letters show stations using same transmitter. |
| z | No information available. | N National "Red" and "Blue" networks. | 1-2-3. Figures denote stations sharing time. |
| | Fourth Column Symbols | | No information. |
| A | These stations are synchronized. | | |

INDEX BY FREQUENCIES AND DIAL NUMBERS

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FOR KEY TO SYMBOLS SEE PAGE 45

540 kilocycles 555.2 meters

| | | | | | |
|------|----|------|-------|---------------|--------------------------|
| CKOK | ae | 5000 | CG | Windsor, Ont. | Essex Broadcasters, Ltd. |
| KEY | z | 105 | 546.8 | Merida, Mex. | Partido Socialista S. E. |

550 kilocycles 545.1 meters

| | | | | | |
|------|----|------|---------|----------------------|-----------------------------------|
| KFDY | ae | 500 | (1)1 | Brookings, S. D. | ~South Dakota State College |
| KFUO | ae | 500 | 2(1) | St. Louis, Mo. | Evangelical Lutheran Church |
| KFYR | ah | 1000 | 1N(2.5) | Bismarck, No. Dakota | Meyer Broadcasting Co. |
| KOAC | ak | 1000 | ..... | Corvallis, Ore. | Oregon State Agricultural College |
| KSD | ak | 500 | 2R | St. Louis, Mo. | Pulitzer Publishing Co. |
| WDEV | ae | 500 | D | Waterbury, Vt. | Harry G. Whitehill |
| WGR | ae | 1000 | C | Buffalo, N. Y. | Buffalo Broadcasting Corp. |
| WKRC | ak | 1000 | C | Cincinnati, Ohio | WKRC, Inc., Hotel Alms |

560 kilocycles 535.4 meters

| | | | | | |
|------|----|------|--------|-----------------------|-------------------------------------|
| KFDM | ak | 500 | (1) | Beaumont, Texas | Sabine Broadcasting Co., Inc. |
| KLZ | ae | 1000 | C | Denver, Colo. | Reynolds Radio Co., Inc. |
| KTAB | ae | 1000 | ..... | San Francisco, Calif. | Associated Broadcasters, Inc. |
| WFI | ae | 500 | 1R | Philadelphia, Pa. | WFI Broadcasting Co. |
| WBO | ae | 1000 | (1.5)a | Chicago, Ill. | Nelson Bros. Bond & Mtg. Co. |
| WLIT | ak | 500 | 1R | Philadelphia, Pa. | Lit Bros. Broadcasting System, Inc. |
| WNOX | ak | 1000 | C(2) | Knoxville, Tenn. | So. Carolina Broadcasting Co., Inc. |
| WPCC | ak | 500 | Sa | Chicago, Ill. | North Shore Congregational Church |
| WQAM | ae | 1000 | C | Miami, Fla. | Miami Broadcasting Co. |

570 kilocycles 526.0 meters

| | | | | | |
|------|----|------|-------|----------------------|---------------------------------------|
| KGKO | z | 250 | (.5) | Wichita Falls, Texas | Wichita Falls Broadcasting Co. |
| KMTR | ae | 500 | ..... | Hollywood, Calif. | KMTR Radio Corp. |
| KVI | ae | 500 | C | Tacoma, Wash. | Puget Sound Broadcasting Co. |
| TGW | z | 50 | ..... | Guatemala | |
| WEO | ae | 750 | 1 | Columbus, Ohio | Ohio State University |
| WKBN | ak | 500 | 1C | Youngstown, Ohio | McClatchy Radio Stations (Fresno Bee) |
| WMCA | ak | 500 | 3 | New York, N. Y. | Knickerbocker Broadcasting Co., Inc. |
| WNAX | ae | 1000 | C | Yankton, S. D. | House of Gurney, Inc. |
| WNYC | ak | 500 | 3 | New York, N. Y. | Dept. of Plant & Structures |
| WSYR | ak | 250 | R2 | Syracuse, N. Y. | Central N. Y. Brdcstg. Corp. |
| WWNC | ae | 1000 | N | Asheville, N. C. | Citizens Broadcasting Co., Inc. |

580 kilocycles 516.9 meters

| | | | | | |
|------|----|------|-------|-------------------------|---------------------------------------|
| CFCY | ae | 500 | E | Charlottetown, P. E. I. | Island Radio Broadcasting Co., Ltd. |
| CHMA | ak | 250 | 4S | Edmonton, Alta. | Christian & Missionary Alliance |
| CKCL | aj | 500 | ..... | Toronto, Ont. | The Dominion Battery Co. |
| CKUA | ak | 500 | 4F | Edmonton, Alta. | University of Alberta |
| CMDD | z | 150 | 588 | Havana, Cuba | G. deSequeira |
| CMW | ae | 1400 | 585 | Havana, Cuba | Troncoso y Gil |
| KMJ | ak | 500 | CT | Fresno, Calif. | McClatchy Radio Stations (Fresno Bee) |
| KSAC | ak | 500 | 2(1) | Manhattan, Kans. | State Agricultural College |
| WDBO | ae | 250 | CU | Orlando, Fla. | Orlando Broadcasting Co., Inc. |
| WIBW | ae | 1000 | C2 | Topeka, Kans. | Capper Publications |
| WOBU | ak | 250 | 1(.5) | Charleston, W. Va. | WOBU, Inc., Ruffner Hotel |
| WSAZ | ak | 250 | 1(.5) | Huntington, W. Va. | WSAZ, Inc. |
| WTAG | ae | 250 | R(.5) | Worcester, Mass. | Worcester Telegram Pub. Co., Inc. |

590 kilocycles 508.2 meters

| | | | | | |
|------|----|------|-------|------------------|----------------------------------|
| CJGC | ae | 5000 | 595GZ | London, Ont. | Free Press Printing Co., Ltd. |
| KHQC | ak | 1000 | N(2) | Spokane, Wash. | Louis Wasmer, Inc. |
| WCAJ | ae | 500 | 1 | Lincoln, Neb. | Nebraska Wesleyan University |
| WEEL | ak | 1000 | R | Boston, Mass. | Edison Electric Illuminating Co. |
| WKZO | ae | 1000 | D | Kalamazoo, Mich. | WKZO, Inc., Burdick Hotel |
| WOW | ae | 1000 | 1R | Omaha, Neb. | Woodmen of the World |

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INDEX BY FREQUENCIES AND DIAL NUMBERS

600 kilocycles 499.7 meters

| | | | | |
|-------|----|------|---------|-------------------|
| —CNRO | ak | 500 | F | Ottawa, Ont. |
| —KPSD | ah | 1000 | N | San Diego, Calif. |
| WCAC | ak | 250 | 2 | Storrs, Conn. |
| WCAO | ae | 250 | C | Baltimore, Md. |
| WICC | ae | 250 | 2H(.5)C | Bridgeport, Conn. |
| —WMT | ak | 500 | C | Waterloo, Iowa |
| —WREC | z | 500 | C(1) | Memphis, Tenn. |

Canadian National Railways
Airfan Radio Corp.
Connecticut Agricultural College
Monumental Radio Co.
Bridgeport Bdctg. Station, Inc.
Waterloo Broadcasting Co.
WREC, Inc.

KCYS.
680
MTRS.
440.9
DIAL

610 kilocycles 491.5 meters

| | | | | |
|-------|----|------|-------|-----------------------|
| —KFRC | ae | 1000 | C | San Francisco, Calif. |
| —WDAF | ae | 1000 | R | Kansas City, Mo. |
| WIP | ak | 500 | C | Philadelphia, Pa. |
| WJAY | ae | 500 | D | Cleveland, Ohio |
| XETR | z | 1000 | ..... | Mexico City, Mexico |

Don Lee Broadcasting System
Kansas City Star Co.
Pennsylvania Bdctg. Co. (WFAN)
Cleveland Radio Broadcasting Corp.
Cia. Difusora Mexicana S. A.

620 kilocycles 483.6 meters

| | | | | |
|-------|----|------|---------|----------------------|
| —KGW | ae | 1000 | N | Portland, Ore. |
| —KTAR | ae | 500 | NJ(1) | Phoenix, Ariz. |
| WFLA | ae | 1000 | Na(2.5) | Clearwater, Fla. |
| WLBZ | ak | 500 | C | Bangor, Maine |
| WSUN | ae | 1000 | Na(2.5) | St. Petersburg, Fla. |
| WTMJ | ae | 1000 | N(2.5) | Milwaukee, Wis. |

Oregonian Publishing Co.
KTAR Broadcasting Co.
Florida West Coast Bdctg. Co., Inc.
Maine Broadcasting Co., Inc.
Florida West Coast Bdctg. Co., Inc.
Journal Company

630 kilocycles 475.9 meters

| | | | | |
|-------|----|------|-------|------------------------|
| —CFCT | ae | 500 | G | Victoria, B. C. |
| CJGX | ae | 500 | FL | Yorkton, Sask. |
| CKOC | ae | 1000 | 635aG | Hamilton, Ont. |
| CKTB | ae | 1000 | 635aL | St. Catharines, Ont. |
| CMCU | z | 150 | ..... | Havana, Cuba |
| CMQ | z | 250 | ..... | Havana, Cuba |
| CNRA | ae | 700 | F | Moncton, N. B. |
| HIX | ah | 1000 | ..... | Santo Domingo, D. R. |
| —KFRU | ak | 500 | 1 | Columbia, Mo. |
| KGFX | z | 200 | D | Pierre, S. D. |
| —WGBF | ae | 500 | W | Evansville, Ind. |
| WMAL | ae | 250 | (.5) | Washington, D. C. |
| WOS | ak | 500 | 1D | Jefferson City, Mo. |
| XETF | ak | 500 | K | Veracruz, Ver., Mexico |
| XFG | z | 200 | 638.3 | Mexico City, Mexico |

Victoria Broadcasting Assn.
Winnipeg Grain Exchange
Wentworth Radio Bdctg. Co., Ltd.
Wentworth Radio Bdctg. Co., Ltd.
Jorge Garcia Serra
Jose Fernandez
Canadian National Railways
The Dominican Government
KFRU, Inc.
Dana McNeil
Evansville On the Air, Inc.
M. A. Leese Radio Corp., Inc.
Missouri State Marketing Bureau
Manuel Angel Fernandez
Sria. de Guerra y Marina

640 kilocycles 468.5 meters

| | | | | |
|-------|----|-------|-------|---------------------|
| CHRC | ak | 100 | 645aG | Quebec, Que. |
| CKCI | ck | 100 | 645a | Quebec, Que. |
| CKCR | ak | 100 | 645G | Waterloo, Ont. |
| —KFI | ah | 50000 | N1 | Los Angeles, Calif. |
| —WAIU | ae | 500 | 1 | Columbus, Ohio |
| —WOI | ae | 5000 | D | Ames, Iowa |

CHRC, Ltd., Victoria Hotel
Le Soleil, Ltd.
Mitchell & Liddle
Earl C. Anthony, Inc.
American Insurance Union
State College of Agriculture

650 kilocycles 461.3 meters

| | | | | |
|-------|-----|-------|-------|------------------|
| —KPCB | ae | 100 | ..... | Seattle, Wash. |
| WSM | aej | 50000 | N | Nashville, Tenn. |

Queen City Broadcasting Co.
National Life & Accident Ins. Co.

660 kilocycles 454.3 meters

| | | | | |
|-------|-----|-------|-----|-------------------|
| —CHWK | ak | 100 | 665 | Chilliwack, B. C. |
| —CJRM | z | 500 | 665 | Moose Jaw, Sask. |
| CJRW | z | 1000 | 665 | Fleming, Sask. |
| RUS | z | 500 | 664 | Salvador |
| WAAW | agh | 500 | D | Omaha, Neb. |
| —WEAF | ak | 50000 | R | New York City |

Chilliwack Broadcasting Co., Ltd.
Jas. Richardson & Sons, Ltd.
Jas. Richardson & Sons, Ltd.
Republic of El Salvador
Omaha Grain Exchange
National Broadcasting Co., Inc.

670 kilocycles 447.5 meters

| | | | | |
|-------|----|------|---|---------------|
| —WMAQ | ae | 5000 | N | Chicago, Ill. |
|-------|----|------|---|---------------|

WMAQ, Inc. (NBC Lessees)

680 kilocycles 440.9 meters

| | | | | |
|-------|----|------|-------|-----------------------|
| —CMAF | ak | 1000 | ..... | Havana, Cuba |
| —KFEQ | ae | 2500 | D | St. Joseph, Mo. |
| —KPO | ak | 5000 | N | San Francisco, Calif. |
| WPTF | ae | 1000 | N Dn | Raleigh, N. C. |

International Broadcasting Co.
Scroggin & Co., Bank
National Broadcasting Co., Inc.
Durham Life Insurance Co.

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

690 kilocycles 434.5 meters

CFAC ak 500 1G Calgary, Alta.
 CFRB ae 10000 CM Toronto, Ont.
 CJCJ ak 500 1LE Calgary, Alta.
 NAA z 1000 Arlington, Va.
 VAS z 2000 685(4) Glace Bay, N. S.
 XET ck 500 Monterrey, Mexico

Calgary Herald, Ltd.
 Rogers-Majestic Corp., Ltd.
 Albertan Publishing Co., Ltd.
 U. S. Navy
 Canadian Marconi Co.
 Cadena Radio Difusora Mexicana S. A.

700 kilocycles 428.3 meters

—WLW ae 50000 N Cincinnati, Ohio

The Crosley Radio Corporation

710 kilocycles 422.3 meters

—KMPK ae 500 Dn Beverly Hills, Calif.
 WOR ak 5000 X Newark, N. J.
 —XEN agj 1000 711K Mexico City

R. S. MacMillan
 Bamberger's Broadcasting Service, Inc.
 Cerveceria Modelo S. A.

720 kilocycles 416.4 meters

—WGN ak 25000 C Chicago, Ill.

WGN, Inc., Drake Hotel

730 kilocycles 410.7 meters

—CHLS ak 100 1b Vancouver, B. C.
 CHYC z 5000 Sa Montreal, Que.
 CKAC ak 5000 CaM Montreal, Que.
 CKCD z 100 1b Vancouver, B. C.
 CKFC ak 50 1 Vancouver, B. C.
 —CKMO z 100 1 Vancouver, B. C.
 —CKWX ak 100 1L Vancouver, B. C.
 CMK aeh 3150 Havana, Cuba
 —XEF-XER z 75000 735-665 Villa Acuna, Mexico

W. G. Hassell (Province Bldg.)
 Northern Electric Co., Ltd.
 La Presse Publishing Co., Ltd.
 Vancouver Daily Province
 United Church of Canada
 Sprott-Shaw Radio Co.
 Western Broadcasting Co., Ltd.
 National Broadcasting Co. of Cuba
 Villa Acuna Broadcasting Co., Inc.

740 kilocycles 405.2 meters

—CJCA ae 500 745EL Edmonton, Alberta
 —KMMJ bk 1000 Dn Clay Center, Neb.
 —WSB aeh 5000 N Atlanta, Ga.
 WHEB ak 250 D Portsmouth, N. H.

Edmonton Journal, Ltd.
 M. M. Johnson Co. (R/C Lincoln)
 Atlanta Journal, Biltmore Hotel
 Granite State Broadcasting Co.

750 kilocycles 399.8 meters

KGU aj 2500 NX Honolulu, Hawaii
 WQVR ak 750 St. John's, N. F.
 —WJR ak 10000 B Detroit, Mich.
 —XEAN aeh 5000 Juarez, Chih., Mexico

Advertiser Publishing Co.
 Wesley United Church
 WJR, The Goodwill Station, Inc.
 Radio Difusora Nacional S. A.

760 kilocycles 394.5 meters

—KXA ae 250 (.5) Seattle, Wash.
 WBAL ae 10000 BA Baltimore, Md.
 WEW ae 1000 D St. Louis, Mo.
 —WJZ ck 30000 BA New York City

American Radio Tel. Co.
 (See 1060 kcys. also)
 St. Louis University
 National Broadcasting Co., Inc.

770 kilocycles 389.4 meters

—KFAB ae 5000 1C Lincoln, Neb.
 —WBBM ae 25000 1C Chicago, Ill.

KFAB Broadcasting Co.
 WBBM Bdctg. Corp. (Wrigley Bldg.)

780 kilocycles 384.4 meters

CKY z 5000 Winnipeg, Man.
 CMBS z 150 Havana, Cuba
 CMCO z 1000 Havana, Cuba
 —KELW aeh 500 2 Burbank, Calif.
 —KTM ae 500 2(1) Los Angeles, Calif.
 WEAN ak 250 CH(.5) Providence, R. I.
 WMC ak 500 N(1) Memphis, Tenn.
 WPOR aeh 500 b Portsmouth, Va.
 WTAR aeh 500 bC Norfolk, Va.
 XEP z 1000 Mexico City

Manitoba Telephone System
 Enrique Artalejo
 Andres Martinez
 Magnolia Park, Ltd.
 Pickwick Broadcasting Corp., Ltd.
 Shepard Broadcasting Service, Inc.
 Memphis Commercial Appeal, Inc.
 WTAR Radio Corp. (Norfolk)
 WTAR Radio Corp.
 Cia. Difusora de Mexico S. A.

790 kilocycles 379.5 meters

CMHC z 250 Tuinucu, Cuba
 CMJK z 300 Camaguey, Cuba
 —KGO ak 7500 N San Francisco, Calif.
 —WGY ak 50000 R Schenectady, N. Y.

Frank H. Jones
 Tano Gomez
 General Electric Co. (Opr. NBC)
 General Electric Co.

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800 kilocycles 374.8 meters

—WBAP ak 5000 Na Fort Worth, Texas
 —WFAA ak 5000 Na Dallas, Texas

Carter Publications, Inc.
 Dallas News-Dallas Journal

810 kilocycles 370.2 meters

CHNS ae 500 815aZG Halifax, N. S.
 CNRH ak 500 815aZ Halifax, N. S.
 YOAS ak 200 D St. John's, N. F.
 —WCCO ae 5000 C Minneapolis, Minn.
 —WPCF ak 500 D New York City
 XFC z 350 Aguascalientes, Mex.
 XFI z 1000 818 Mexico City, Mexico

Maritime Bdctg. Co., Ltd. Oprs.
 Canadian National Railways
 Ayre & Sons, Ltd.
 Northwestern Broadcasting, Inc.
 Eastern Broadcasters, Inc.
 Gobierno del Estado de Aguascalientes
 Sria. de Ind. C. y Trabajo

KCY.S.
 890

820 kilocycles 365.6 meters

—CMGC z 30 Matanzas, Cuba
 —WHAS aj 25000 C Louisville, Ky.

Oscar S. Mechoso
 The Louisville Times Co., Inc.

MTRS.
 336.9

830 kilocycles 361.2 meters

—CMGA z 100 834 Colon, Cuba
 —KOA ak 12500 NJ Denver, Colo.
 —WBEU ak 1000 D Reading, Pa.
 —WHDH ae 1000 DY Boston, Mass.
 —WRUF ae 5000 DnC Gainesville, Fla.
 XETW z 500 Mexico City, Mexico

L. Valdes Figueroa
 General Electric Co. (NBC Opr.)
 Berks Broadcasting Co.
 Matheson Radio Co., Inc.
 State of Florida (Univ. of Fla.)
 Rafael M. Pena

DIAL

840 kilocycles 356.9 meters

—CHNC z 5000 a Toronto, Ont.
 —CKGW ae 5000 NEa Toronto, Ont.
 —CKLC ak 1000 G Red Deer, Alta.
 —CMC z 500 Havana, Cuba
 —CPRY ae 5000 La Toronto, Ont.
 —XETH z 100 Puebla, Mexico
 XETM z 15000 P845 Matamoros, Mex.
 XFB z 500 Jalapa, Mexico

Canadian National Carbon Co., Ltd.
 Gooderham & Worts, Ltd.
 Alberta Pacific Grain Co., Ltd.
 Cuban Telephone Co.
 Canadian Pacific Co., Royal York Hotel
 Ramon Huerta
 Miguel Musquiz, A.
 Estado de Vera Cruz

850 kilocycles 352.7 meters

—KIEV z 100 D Glendale, Calif.
 —KWKH ae 10000 1 Shreveport, La.
 —WWL ak 10000 1DnX New Orleans, La.

Cannon Systems, Inc.
 Hello World Broadcasting Corp.
 WWL Development Co. (Loyola Univ.)

860 kilocycles 348.6 meters

VOGY z 500 P St. John's, N. F.
 —WABC ae 50000 aC New York City
 —WBQ ae 50000 a New York City
 —WHB ae 500 D Kansas City, Mo.
 XFX z 500 Mexico City, Mexico

Atlantic Broadcasting Corp.
 Atlantic Broadcasting Corp. (tests)
 WHB Broadcasting Co.
 Secretaria de Educacion Publica

870 kilocycles 344.6 meters

—WENR ak 50000 Na Chicago, Ill.
 —WLS ae 50000 Na Chicago, Ill.

Great Lakes Bdctg. Co. NBC Opr.
 Agricultural Broadcasting Co.

880 kilocycles 340.7 meters

—CHML ae 50 4G Hamilton, Ont.
 —CJCB ak 100 G Sydney, N. S.
 —CKCV ak 100 Quebec, Que.
 —EKPC ak 100 4L Preston, Ont.
 —KFKA ak 500 2(1) Greeley, Colo.
 —KLX ae 500 Oakland, Calif.
 —KPOF ae 500 2 Denver, Colo.
 —WCOC ae 500 (1) Meridian, Miss.
 —WGBI ah 250 Q1 Scranton, Pa.
 —WQAN ak 250 1 Scranton, Pa.
 —WSUI ae 500 Iowa City, Iowa
 —XBPN z 100000 885 Piedras Negras, Mex.

Maple Leaf Radio Co., Ltd.
 Nathanson's Radio Headquarters
 Vandry, Inc.
 Cyrus Dolph
 Mid-Western Radio Corp.
 Tribune Publishing Co.
 Pillar of Fire
 Mississippi Broadcasting Co., Inc.
 Scranton Broadcasters, Inc.
 Scranton Times
 State University of Iowa
 (Yolanda Hotel, Eagle Pass, Tex.)

890 kilocycles 336.9 meters

CFBO z 500 St. John, N. B.
 CKCO z 100 3 Ottawa, Ont.
 CKPR ak 100 3G Fort William, Ont.
 CMCF ak 250 1 Havana, Cuba
 CMX ae 500 1 Havana, Cuba
 —KARK ak 250 Little Rock, Ark.
 —KFNF ak 500 2(1) Shenandoah, Iowa
 —KSEI ae 250 (.5) Pocatello, Idaho
 —KUSD ae 500 2 Vermillion, S. Dak.

C. A. Munro, Ltd.
 Dr. G. M. Geldert
 Dougall Motor Car Co., Ltd.
 Raoul Karman, Casa DelaPorte
 Casa "Lavin" Francisco A. Lavin, Adm.
 Arkansas Radio & Equipment Co.
 Henry Field Company
 Radio Service Corporation
 University of South Dakota

CUT OUT ON DOTTED LINES

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| | | | | |
|------|--------|-------|-------------------|---------------------------|
| VOGT | 400 | 893 | Wabana, N. F. | The Gaiety Theatre |
| WGST | ae 250 | C(.5) | Atlanta, Ga. | Southern Broadcasting Co. |
| WILL | ak 250 | 2(.5) | Urbana, Ill. | University of Illinois |
| WJAR | ae 250 | (.5)R | Providence, R. I. | The Outlet Co. |
| WMMN | ae 250 | (.5) | Fairmont, W. Va. | A. M. Rowe, Inc. |
| XETU | z 100 | ..... | Pachuca, Mexico | Rodrigo Mariquez |

900 kilocycles 333.1 meters

| | | | | |
|-----------------|---------|-------|----------------------|----------------------------------|
| KGBU | ak 500 | ..... | Ketchikan, Alaska | Alaska Radio & Service Co. |
| KHJ | ae 1000 | CT | Los Angeles, Calif. | Don Lee Broadcasting System |
| WBEN | ae 1000 | R | Buffalo, N. Y. | WBEN, Inc., Buffalo Evening News |
| WJAX | ae 1000 | N | Jacksonville, Fla. | City of Jacksonville |
| WKY | ae 1000 | N | Oklahoma City, Okla. | Oklahoma Publishing Co. |
| WLBL | ae 2000 | D | Stevens Point, Wis. | Wis. Dept. Agriculture & Markets |

910 kilocycles 329.6 meters

| | | | | |
|----------------|---------|-------|----------------------|--------------------------------------|
| CFQC | z 500 | ..... | Saskatoon, Sask. | The Electric Shop, Ltd. |
| CFLC | ae 100 | 915 | Prescott, Ont. | Radio Association of Prescott |
| TICR | z 50 | 911 | San Jose, Costa Rica | |
| XEW | ak 5000 | ..... | Mexico City, Mexico | Cadena Radio-difusora Mexicana S. A. |
| XFF | z 500 | 915 | Chihuahua, Mex. | Gobierno del Estado de Chihuahua |

920 kilocycles 325.9 meters

| | | | | |
|-----------------|---------|--------|-----------------------|-------------------------------------|
| CMBW | z 150 | 925 | Havana, Cuba | Alvarez-Moris |
| CMCN | z 250 | 925 | Havana, Cuba | Antonio Ginard |
| CMDE | z 250 | 925 | Havana, Cuba | Evlilio Villar |
| HHK | z 1000 | ..... | Port au Prince, Haiti | Republic of Haiti |
| KFEL | ak 500 | 1 | Denver, Colo. | Gene O'Fallon (Albany Hotel) |
| KFXF | ae 500 | 1 | Denver, Colo. | Colorado Radio Corp. |
| KOMO | aj 1000 | N | Seattle, Wash. | Fisher's Blend Station, Inc. |
| KPRC | ak 1000 | N(2.5) | Houston, Texas | Houston Printing Co. (Houston Post) |
| WAAF | ak 500 | D | Chicago, Ill. | Drovers Journal Publishing Co. |
| WBSO | ak 500 | D | Babson Park, Mass. | Broadcasting Service Org., Inc. |
| WWJ | ak 1000 | R | Detroit, Mich. | The Detroit News |

930 kilocycles 322.4 meters

| | | | | |
|-----------------|--------|-------|-----------------------|--------------------------------|
| CFCH | ak 100 | 3LM | North Bay, Ont. | Northern Supplies, Ltd. |
| CFRC | ak 50 | 3(.2) | Kingston, Ont. | Queen's University |
| CKX | ak 500 | E | Brandon, Manitoba | Manitoba Telephone System |
| CMJF | z 200 | ..... | Camaguey, Cuba | John L. Stowers |
| KFWI | aj 500 | 1 | San Francisco, Calif. | Radio Entertainments, Ltd. |
| KGBZ | ak 500 | 2(1) | York, Neb. | Dr. Geo. R. Miller |
| KMA | ae 500 | 2(1) | Shenandoah, Iowa | Earl E. May Seed & Nursery Co. |
| KROW | ak 500 | 1(1) | Oakland, Calif. | Educational Broadcasting Corp. |
| WBRC | ak 500 | C(1) | Birmingham, Ala. | Birmingham Bdctg. Co., Inc. |
| WDBJ | ae 250 | C(.5) | Roanoke, Va. | Times-World Corp. |
| WIBG | ae 25 | D | Glenside, Penna. | WIBG, Inc. (Keswick Bldg.) |

940 kilocycles 319.0 meters

| | | | | |
|-----------------|---------|--------|---------------------|-------------------------------------|
| KOIN | zk 1000 | CT | Portland, Ore. | KOIN, Inc. (New Heathman Hotel) |
| WAAT | ae 300 | D | Jersey City, N. J. | Bremer Broadcasting Corp. |
| WCSH | ae 1000 | R(2.5) | Portland, Maine | Congress Square Hotel Co. |
| WDAY | ae 1000 | N | Fargo, No. Dakota | WDAY, Inc. (Black Bldg.) |
| WFIW | ae 1000 | C | Hopkinsville, Ky. | WFIW, Inc. |
| WHA | ak 1000 | D | Madison, Wis. | University of Wisconsin |
| XEFO | ak 5000 | (3.5) | Mexico City, Mexico | National Revolucionario Party (XFO) |

950 kilocycles 315.6 meters

| | | | | |
|-----------------|---------|---------|---------------------|-------------------------------------|
| CMHD | z 250 | ..... | Caibarien, Cuba | Manual Alvarez |
| KFWB | ak 1000 | ..... | Los Angeles, Calif. | Warner Bros. Broadcasting Corp. |
| KGHL | ak 1000 | NJ(2.5) | Billings, Mont. | Northwestern Auto Supply Co. |
| KMBC | ak 1000 | C | Kansas City, Mo. | Midland Bdctg. Co. (Pickwick Hotel) |
| VONA | z 100 | ..... | St. John's, N. F. | Lane, Gillard & Avery |
| WRC | ak 500 | N | Washington, D. C. | National Broadcasting Co., Inc. |

960 kilocycles 312.3 meters

| | | | | |
|-----------------|---------|-------|------------------------|------------------------------------|
| CHCK | ak 100 | V | Charlottetown, P.E. I. | J. A. Gesner & W. E. Burke |
| CHWC | ak 500 | 3FL | Regina, Sask. | R. H. Williams & Sons, Ltd. |
| CKCK | ak 500 | 3FL | Regina, Sask. | Leader Post, Ltd. (Leader Bldg.) |
| CKNC | ak 500 | M | Toronto, Ont. | Canadian National Carbon Co., Ltd. |
| CMAY | z 150 | 965 | Havana, Cuba | Efigenio Oliver |
| CMBD | z 150 | 965 | Havana, Cuba | Luis Perez Garcia |
| CMCW | ak 150 | 965 | Havana, Cuba | Vilario y Cervantes |
| XEAW | z 10000 | 965 | Reynosa, Mexico | International Broadcasting Co. |
| CMJL | z 50 | | Camaguey, Cuba | Enrique Artimes |
| YVIBC | ak 5000 | | Caracas, Venezuela | Broadcasting Caracas |

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970 kilocycles 309.1 meters

~~KJR~~ ae 5000 N Seattle, Wash.
~~WCFL~~ ak 1500 RX Chicago, Ill.

Northwest Broadcasting System, Inc.
 Chicago Federation of Labor

980 kilocycles 303.9 meters

~~CFCN~~ ak 10000 985FL Calgary, Alberta
~~CMGF~~ z 100 987 Matanzas, Cuba
~~KDKA~~ ak 50000 B Pittsburgh, Pa.

The Voice of the Prairies, Ltd.
 Bernabe R. de la Torre
 Westinghouse Elec. & Mfg. Co.

990 kilocycles 302.8 meters

~~WBZ~~ ak 25000 BA Boston, Mass.
~~WBZA~~ ak 1000 BA Springfield, Mass.
~~XEK~~ z 101 Mexico City, Mexico

Westinghouse Elec. & Mfg. Co.
 Westinghouse Elec. & Mfg. Co.
 Arturo Martinez

1000 kilocycles 299.8 meters

~~KFVD~~ ak 250 Dn Los Angeles, Calif.
~~WHO~~ z 5000 RAX Des Moines, Iowa
~~WOC~~ ak 5000 RAX Davenport, Iowa
~~WORK~~ aj 1000 D York, Pa.
~~XEA~~ ak 100 Guadalajara, Mexico
~~XEC~~ z 50 Toluca, Mexico
~~XEFB~~ z 100 N. Laredo, Tams., Mex.
~~XEFI~~ z 100 Chihuahua, Mexico
~~XEFJ~~ z 100 Monterrey, Mexico
~~XEFS~~ z 40 Queretaro, Mexico
~~XEJ~~ ak 100 K Juarez, Mexico
~~XEL~~ ak 10 Saltillo, Mexico
~~XETC~~ z 100 Jalapa, Ver., Mexico

Los Angeles Broadcasting Co.
 Central Broadcasting Co.
 Central Broadcasting Co.
 York Broadcasting Co.
 Radiofonografica de Guadalajara, S.A.
 Jesus R. Benavides
 Rafael T. Carranza
 Feliciano Lopez Islas
 Rodolfo Junco de la Vega
 Salvador Sanchez
 Juan G. Buttner & Leo Allande
 Antonio Garza Castro y J. T. Perez
 Juventino Sanchez

KCYS.
 1050
 MTRS.
 285.5
 DIAL

1010 kilocycles 296.9 meters

~~CFCO~~ ak 250 Chatham, Ont.
~~CKIC~~ ak 50 Wolfville, N. S.
~~CMBZ~~ ak 150 Havana, Cuba
~~CMCY~~ z 150 Havana, Cuba
~~KGGF~~ ak 500 2(1) Coffeyville, Kans.
~~WJN~~ ae 500 T San Jose, Calif.
~~WIS~~ ae 250 1 New York City
~~WNAD~~ ae 500 N(1) Columbia, S. C.
~~WPAP~~ ae 500 2 Norman, Okla.
~~WQAO~~ ae 250 1a New York City
~~WRNY~~ ae 250 1a New York City
~~XEU~~ ak 100 1 New York City
 Veracruz, Mexico

John Beardall (Wm. Pitt Hotel)
 Acadia University
 Manuel & Guillermo Salas
 Diario "El Mundo"
 Powell & Platz
 Pacific Agricultural Foundation, Ltd.
 Marcus Loew Booking Agency
 WIS, Inc.
 University of Oklahoma
 Jersey Boulevard Corp.
 Jersey Boulevard Corp.
 Aviation Radio Station, Inc.
 Baltasar Pazos Sosa

1020 kilocycles 293.9 meters

~~KYW~~ ae 10000 N Chicago, Ill.
~~WRAX~~ ae 250 D Philadelphia, Pa.
~~XEFD~~ z 300 Tiajuana, Mex.

Westinghouse Elec. & Mfg. Co. (KFKX)
 WRAX Broadcasting Co.
 Carlos de la Sierra

1030 kilocycles 291.1 meters

~~CFCF~~ ae 500 NG Montreal, Que.
~~CMHI~~ ck 30 a Santa Clara, Cuba
~~CMKC~~ z 150 1034a Santiago de Cuba
~~CNRV~~ ak 500 Vancouver, B. C.
~~KNX~~ ak 1000 Mexico City, Mexico

Canadian Marconi Co.
 Laviz & Paz
 Pinol Battle y Co.
 Canadian National Railways
 El Buen Tono, S. A.

1040 kilocycles 288.3 meters

~~CMGH~~ z 15 Matanzas, Cuba
~~KRLD~~ ae 10000 1C Dallas, Tex.
~~KTHS~~ ae 10000 1N Hot Springs, Ark.
~~WESG~~ ae 1000 D Elmira, N. Y.
~~WKAR~~ ae 1000 D East Lansing, Mich.

O. y J. Alvarez
 KRLD Radio Corp. (Adolphus Hotel)
 Chamber of Commerce
 WESG, Inc.
 Michigan State College

1050 kilocycles 285.5 meters

~~CMJG~~ z 50 Camaguey, Cuba
~~KFBI~~ ae 5000 Dn Abilene, Kans.
~~KNX~~ ae 25000 X Hollywood, Calif.
~~XEFC~~ z 10 Merida, Yuc.
~~XES~~ dk 250 1055K Tampico, Mexico

Jose Antonio Lefran
 Farmers & Bankers Life Ins. Co.
 Western Broadcast Co.
 Hugo Molina Font
 Emilio Balli, Jr.

CUT OUT ON DOTTED LINES

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1060 kilocycles 282.8 meters

| | | | | |
|-------|----|-------|----|-----------------|
| —KWJJ | z | 500 | Dn | Portland, Ore. |
| WBAL | ae | 10000 | 1B | Baltimore, Md. |
| WJAG | ak | 1000 | Dn | Norfolk, Neb. |
| —WTIC | ak | 50000 | 1R | Hartford, Conn. |

KWJJ Broadcast Co., Inc.
Consolidated Gas, Elec. L. & Pwr. Co.
Norfolk Daily News
Travelers' Bdctg. Service Corp.

1070 kilocycles 280.2 meters

| | | | | |
|-------|----|-------|-------|-----------------------|
| CMBG | z | 225 | ..... | Havana, Cuba |
| CMCB | af | 150 | ..... | Havana, Cuba |
| —KJBS | ae | 100 | D | San Francisco, Calif. |
| WCAZ | ae | 50 | D | Carthage, Ill. |
| WDZ | ak | 100 | D | Tuscola, Ill. |
| —WTAM | ak | 50000 | R | Cleveland, Ohio |
| XEG | z | 250 | 1075 | Mexico City, Mexico |

John L. Stowers
Metropolitan-Radio de Cuba
Julius Bruntoni & Sons Co.
Superior Bdctg. Service, Inc.
James L. Bush
National Broadcasting Co., Inc.
Ricardo Gonzales Montero

1080 kilocycles 277.6 meters

| | | | | |
|-------|----|-------|-----|------------------|
| —WBT | ae | 25000 | CU | Charlotte, N. C. |
| WCBD | ae | 5000 | 1Dn | Zion, Ill. |
| —WMBI | ck | 5000 | 1Dn | Chicago, Ill. |

Station WBT, Inc.
Wilbur Glenn Voliva
Moody Bible Institute

1090 kilocycles 275.1 meters

| | | | | |
|-------|----|-------|---|----------------|
| —KMOX | ak | 50000 | C | St. Louis, Mo. |
|-------|----|-------|---|----------------|

Voice of St. Louis, Inc.

1100 kilocycles 272.6 meters

| | | | | |
|-------|----|------|----|----------------------|
| —KGDM | ak | 250 | D | Stockton, Calif. |
| WLWL | ae | 5000 | 1 | New York City |
| —WPG | ae | 5000 | 1C | Atlantic City, N. J. |

E. F. Peffer
Missionary Society of St. Paul
Municipality of Atlantic City

1110 kilocycles 270.1 meters

| | | | | |
|-------|----|--------|---------|-----------------------|
| CMJO | z | 15 | ..... | Ciego de Avila, Cuba |
| —KSOO | ae | 1000 | Dn(2.5) | Sioux Falls, So. Dak. |
| VONF | z | 500 | 1115 | St. John's, N. F. |
| —WRVA | ae | 5000 | N | Richmond, Va. |
| XENT | z | 150000 | 1115 | Neuvo Laredo, Mex. |

Rey-Borges
Sioux Falls Broadcast Assn., Inc.
Larus & Bros. Co., Inc.
Compania Industrial Universal, S. A.

1120 kilocycles 267.7 meters

| | | | | |
|-------|----|-----|-------|------------------------|
| CFCA | ak | 500 | G | Toronto, Ont. |
| CFJC | ak | 100 | EL | Kamloops, B. C. |
| CHGS | ce | 100 | VX | Summerside, P. E. I. |
| CJOC | ak | 100 | ..... | Lethbridge, Alta. |
| CMJH | ae | 40 | 1125 | Cienfuegos, Cuba |
| —KFIO | ae | 100 | D | Spokane, Wash. |
| —KFSG | ak | 500 | a | Los Angeles, Calif. |
| —KRKD | ae | 500 | a | Los Angeles, Calif. |
| —KRRC | ak | 100 | D | Seattle, Wash. |
| —KTRH | ak | 500 | 2C | Houston, Tex. |
| WDEL | aj | 250 | (.5) | Wilmington, Del. |
| WHAD | ae | 250 | 1C | Milwaukee, Wis. |
| WISN | ak | 250 | 1C | Milwaukee, Wis. |
| —WTAW | ae | 500 | 2 | College Station, Texas |

Toronto Daily Star
The Kamloops Sentinel
R. T. Holman, Ltd.
Harold R. Carson
Victorino Lopez (Hotel Bristol)
Spokane Broadcasting Corp.
Echo Park Evangelistic Assn.
Fireside Broadcasting Co.
Radio Sales Corp. (Wash. Ath. Club)
KTRH Broadcasting Co. (Rice Hotel)
WDEL, Inc.
Marquette University
American Radio News Corp.
Agricultural & Mech. College

1130 kilocycles 265.3 meters

| | | | | |
|------|----|-------|------|----------------------|
| —KSL | ae | 50000 | C | Salt Lake City, Utah |
| WJJD | ze | 20000 | Dn | Chicago, Ill. |
| WOV | ae | 1000 | D | New York City |
| XEH | ak | 250 | 1132 | Monterrey, Mexico |

Radio Service Corp. of Utah
WJJD, Inc. (Palmer House)
International Broadcasting Corp.
Tarnava & Cia

1140 kilocycles 263.0 meters

| | | | | |
|-------|----|------|-------|---------------------|
| —CMBJ | z | 150 | ..... | Havana, Cuba |
| CMCD | ae | 250 | ..... | Havana, Cuba |
| —KVOO | ae | 5000 | 1N | Tulsa, Okla. |
| —WAPI | aj | 5000 | 1N | Birmingham, Ala. |
| XETA | z | 250 | ..... | Mexico City, Mexico |

Emilio Perera
Angel Bertermaty y Garcia
Southwestern Sales Corp.
WAPI Broadcasting Corp.
Manuel Espinosa Tagle

1150 kilocycles 260.7 meters

| | | | | |
|--------|----|------|-------|----------------------|
| —CMJH | ak | 50 | ..... | Ciego de Avila, Cuba |
| —WHAM | ae | 5000 | BX | Rochester, N. Y. |
| —XZD | z | 500 | 1155 | Guadalajara, Mex. |
| —10-AT | - | 25 | 1155 | Trail, B. C. |

Luis Marauri Mendoza
Stromberg-Carlson Tel. Mfg. Co.
International Broadcasting Co.
Trail Amateur Radio Assn.

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INDEX BY FREQUENCIES AND DIAL NUMBERS

1160 kilocycles 258.5 meters

WOWO ae 1000 1C Fort Wayne, Ind.
 WWVA ae 5000 1C Wheeling, W. Va.

Main Auto Supply Co.
 West Virginia Broadcasting Corp.

1170 kilocycles 256.3 meters

CMJE z 50 1175 Camaguey, Cuba
 WCAU ae 50000 C Philadelphia, Pa.

Manuel Fernandez
 Universal Broadcasting Corp.

1180 kilocycles 254.1 meters

CMCJ z 250 1185 Havana, Cuba
 KEX ak 5000 2N Portland, Ore.
 KOB ae 20000 2 Albuquerque, N. M.
 WDGY ak 1000 Dn Minneapolis, Minn.
 WINS ae 500 New York City
 WMAZ ak 500 Macon, Ga.

Rafael Rodriguez
 National Broadcasting Co.
 N. M. Coll. of Agr. & Mechanical Arts
 George W. Young
 American Radio News Corp.
 Southeastern Broadcasting Co.

1190 kilocycles 252.0 meters

WOAI aeh 50000 N San Antonio, Texas

Southern Equipment Co.

1200 kilocycles 249.9 meters

CHCH z 100 2 Montreal, Que.
 CHLP z 100 2 Montreal, Que.
 CKOV ak 100 Kelowna, B. C.
 CMGB z 30 1205 Matanzas, Cuba
 KBTM ak 100 D Paragould, Ark.
 KERN ak 100 CT Bakersfield, Calif.
 KFJB ak 100 (.25) Marshalltown, Iowa
 KFWF ak 100 5 St. Louis, Mo.
 KFXD ae 100 Nampa, Idaho
 KFXJ ak 100 Grand Junction, Colo.
 KGDE ae 100 (.25) Fergus Falls, Minn.
 KGDY ak 100 Huron, S. D.
 KGKX ak 100 9 Yuma, Colo.
 KGEW ak 100 9 Ft. Morgan, Colo.
 KGFJ ae 100 Los Angeles, Calif.
 KGHI ak 100 Little Rock, Ark.
 KGVO ak 100 Missoula, Mont.
 KMLB ae 100 Monroe, La.
 KVOS z 100 Bellingham, Wash.
 KWG ak 100 CT Stockton, Calif.
 WABI ak 100 Bangor, Maine
 WABZ ak 100 1 New Orleans, La.
 WBBZ ak 100 Ponca City, Okla.
 WBHS ak 100 4 Huntsville, Ala.
 WCAT ak 100 D Rapid City, S. D.
 WCAx ak 100 Burlington, Vt.
 WCLO ak 100 Janesville, Wis.
 WCOD ae 100 3 Harrisburg, Pa.
 WFAW ak 100 8C South Bend, Ind.
 WFBC z 50 X Greenville, S. C.
 WFBE ak 100 (.25) Cincinnati, Ohio
 WHBC ak 100 Canton, Ohio
 WHBY ak 100 Green Bay, Wis.
 WIBX z 100 (.3) Utica, N. Y.
 WIL ae 100 5(.25) St. Louis, Mo.
 WJBC ae 100 6 LaSalle, Ill.
 WJBL ae 100 6 Decatur, Ill.
 WJBW ak 100 1 New Orleans, La.
 WKJC ak 100 3 Lancaster, Pa.
 WLAP ae 100 (.25) Louisville, Ky.
 WNEO aeh 100 Washington, Pa.
 WNBW z 10 (1) Carbondale, Pa.
 WORC ak 100 CH Worcester, Mass.
 WPHR ak 100 (.25) Petersburg, Va.
 WRBL ak 100 Columbus, Ga.
 WVAE aeh 100 8 Hammond, Ind.
 10-AB ak 25 Moose Jaw, Sask.
 10-AK ak 15 Stratford, Ont.
 10-BI ak 25 Prince Albert, Sask.
 10-BP ak 25 1199 Wingham, Ont.
 10-BQ ak 15 Brantford, Ont.
 10-BU z 15 Canora, Sask.

Montreal Radio Corp.
 La Patrie, Ltd.
 Okanagan Broadcasters, Ltd.
 Jose Anorga
 Beard's Temple of Music
 Bee Bakersfield Broadcasting Co.
 Marshall Electric Co., Inc.
 St. Louis Truth Center, Inc.
 Frank E. Hurt (R/C Boise)
 Western Slope Brdcastg. Co.
 Jaren Drug Co.
 Voice of South Dakota, Inc.
 Beehler Electrical Equipment Co.
 City of Fort Morgan
 Ben. S. McGlashan
 O. A. Cook
 Mosby's, Inc.
 Limer's Broadcasting Station, Inc.
 KVOS, Inc.
 McClatchy Newspapers
 First Universalist Society
 Samuel D. Reeks
 C. L. Carrell (R/C various cities)
 Radio Station WBHS, Inc.
 State School of Mines
 Burlington Daily News
 WCLO Radio Corp. (R/C Beloit)
 Keystone Broadcasting Corp.
 South Bend Tribune (WSBT)
 News-Piedmont Co.
 The Post Publishing Co., Opr.
 Edward P. Graham
 WHBY, Inc.
 WIBX, Inc.
 Missouri Broadcasting Corp.
 Kaskaskia Broadcasting Co.
 Commodore Broadcasting, Inc.
 C. C. Carlson
 Lancaster Bdtg. Service, Inc.
 American Broadcasting Corp. of Ky.
 Spriggs Symplex
 WNBW, Inc.
 A. F. Kleindienst
 WLBG, Inc.
 WRBL Radio Station, Inc.
 Hammond-Calumet Bdtg. Corp.
 Moose Jaw Radio Assn.
 M. I. Higgins Elec. & Radio Co.
 Prince Albert Radio Club
 W. T. Cruickshank
 Tom Brown & Harold Brown
 Canora Radio Assn.

KCYS.
 1210
 MTRS.
 247.8
 DIAL

CUT OUT ON DOTTED LINES

1210 kilocycles 247.8 meters

CFNB ae 100 E Fredericton, N. B.

James S. Neill & Sons, Ltd.

INDEX BY FREQUENCIES AND DIAL NUMBERS

| | | | | | |
|-----------------|-----|-----|-------|------------------------|--------------------------------------|
| CJOR | ak | 500 | E | Vancouver, B. C. | George C. Chandler |
| CKMC | ak | 100 | 8 | Cobalt, Ont. | R. L. McAdam |
| KASA | ak | 100 | ..... | Elk City, Okla. | E. M. Woody (Casa Grande Hotel) |
| KDLR | ak | 100 | ..... | Devils Lake, N. Dak. | KDLR, Inc. |
| KFJI | ak | 100 | ..... | Klamath Falls, Ore. | KFJI Broadcasters, Inc. |
| KFOR | ak | 100 | (.25) | Lincoln, Neb. | Howard A. Shuman |
| KFPW | ak | 100 | ..... | Fort Smith, Ark. | Southwestern Hotel Co. |
| KFVS | ae | 100 | 6 | Cape Girardeau, Mo. | Oscar C. Hirsch |
| KFXM | ak | 100 | 9 | San Bernardino, Calif. | J. C. & E. W. Lee |
| KGCR | ah | 100 | ..... | Watertown, S. Dak. | Greater Kampeska Radio Corp. |
| KGNO | ak | 100 | ..... | Dodge City, Kans. | Dodge City Broadcasting Co. |
| KGY | ak | 100 | ..... | Olympia, Wash. | KGY, Inc. (Capitol Park Bldg.) |
| KIEM | z | 100 | DP | Eureka, Calif. | Harold H. Hanseth |
| KPPC | ak | 50 | 9 | Pasadena, Calif. | Pasadena Presbyterian Church |
| KWEA | z | 100 | ..... | Shreveport, La. | Hello World Broadcasting Corp. |
| WALR | ae | 100 | ..... | Zanesville, Ohio | WALR Broadcasting Corp. |
| WBAX | ae | 100 | 1 | Wilkes-Barre, Pa. | John H. Stenger, Jr. (Morris Bldg.) |
| WBBL | ak | 100 | 7S | Richmond, Va. | Grace Covenant Pres. Church |
| WCBS | ak | 100 | 2 | Springfield, Ill. | WCBS, Inc. |
| WCRW | ae | 100 | 4 | Chicago, Ill. | Clinton R. White |
| WEBQ | ae | 100 | 6 | Harrisburg, Ill. | Harrisburg Broadcasting Co. |
| WEDC | z | 100 | 4 | Chicago, Ill. | Emil Denemark, Inc. |
| WFAS | ak | 100 | 3 | White Plains, N. Y. | Westchester Broadcasting Corp. |
| WGBB | ae | 100 | 3 | Freeport, N. Y. | Harry H. Carman |
| WGCM | ae | 100 | 5 | Gulfport, Miss. | Great Southern Land Co. |
| WGNY | z | 50 | P | Chester Twp., N. Y. | Peter Goelet |
| WHBF | ae | 100 | ..... | Rock Island, Ill. | Rock Island Broadcasting Co. |
| WHBU | aj | 100 | ..... | Anderson, Ind. | Anderson Broadcasting Corp. |
| WHET | ak | 100 | D | Troy, Ala. | Troy Broadcasting Co. |
| WIBU | ae | 100 | ..... | Poynette, Wis. | Wm. C. Forrest |
| WJBI | ak | 100 | 3 | Red Bank, N. J. | Monmouth Broadcasting Co., Inc. |
| WJBU | ae | 100 | 1 | Lewisburg, Pa. | Bucknell University |
| WJBY | aeH | 100 | ..... | Gadsden, Ala. | Ingrams Broadcasting Co. |
| WJEJ | aeH | 100 | D | Hagerstown, Md. | A. V. Tidmore |
| WJW | ae | 100 | ..... | Akron, Ohio | John F. Weimer |
| WKFI | ak | 100 | 5 | Greenville, Miss. | J. Pat Scully |
| WMBG | aj | 100 | 7C | Richmond, Va. | Havens & Martin, Inc. |
| WOCL | ak | 50 | ..... | Jamestown, N. Y. | A. E. Newton |
| WOMT | ae | 100 | ..... | Manitowoc, Wis. | Francis Mangin-Kadow |
| WPAW | ak | 100 | a | Providence, R. I. | Cherry & Webb Broadcasting Co. |
| WPRO | ak | 100 | a | Providence, R. I. | Cherry & Webb Broadcasting Co. |
| WQDX | z | 100 | ..... | Thomasville, Ga. | Stevens Luke |
| WSBC | z | 100 | 4 | Chicago, Ill. | World Battery Co., Inc. |
| WSEN | ak | 100 | ..... | Columbus, Ohio | Columbus Bdcgt. Corp. (Seneca Hotel) |
| WSIX | ae | 100 | ..... | Springfield, Tenn. | 638 Tire & Vulc. Co. (R/C WLW) |
| WSOC | ae | 100 | ..... | Gastonia, N. C. | WSOC, Inc. |
| WTAX | ae | 100 | 2 | Springfield, Ill. | WTAX, Inc. |
| XEX | z | 500 | ..... | Mexico City, Mexico | Excelsior, Cia Editorial S. A. |

1220 kilocycles 245.8 meters

| | | | | | |
|------------------|----|------|------|-----------------|-----------------------------------|
| CMHK | z | 15 | 1225 | Cruces, Cuba | V. Villanueva |
| KFKU | ae | 500 | 1 | Lawrence, Kans. | University of Kansas |
| KTW | z | 1000 | 2S | Seattle, Wash. | First Presbyterian Church |
| KWSC | ae | 1000 | 2(2) | Pullman, Wash. | State College of Washington |
| WCAD | ak | 500 | D | Canton, N. Y. | St. Lawrence University |
| WCAE | ae | 1000 | R | Pittsburgh, Pa. | WCAE, Inc. and Sun-Telegraph |
| WDAE | ak | 1000 | C | Tampa, Fla. | Tampa Daily Times (Tampa Terrace) |
| WRIEN | ak | 1000 | 1B | Lawrence, Kans. | Jenny Wren Co. |

1230 kilocycles 243.8 meters

| | | | | | |
|-----------------|-----|------|-------|-----------------------|------------------------------------|
| CMBY | z | 350 | 1235 | Havana, Cuba | Callejas-Estefani |
| CMCA | z | 150 | 1235 | Havana, Cuba | Manuel Cruz |
| KFOD | aj | 250 | ..... | Anchorage, Alaska | Anchorage Radio Club, Inc. |
| KGGM | ak | 250 | (.5) | Albuquerque, N. M. | New Mexico Broadcasting Co. |
| KYA | ae | 1000 | N | San Francisco, Calif. | Pacific Broadcasting Co. |
| WFBM | aeH | 1000 | 1C | Indianapolis, Ind. | Indianapolis Power & Light Co. |
| WNAC | ae | 1000 | CH | Boston, Mass. | Shepard Broadcasting Service, Inc. |
| WSBT | ak | 500 | 1C | South Bend, Ind. | South Bend Tribune (WFAM) |

1240 kilocycles 241.8 meters

| | | | | | |
|-----------------|----|-----|------|---------------------|--------------------|
| CMAB | z | 20 | 1249 | Pinar del Rio, Cuba | Jose Silvera |
| KGCU | ak | 250 | 3 | Mandan, N. Dak. | Mandan Radio Assn. |
| KLPM | ak | 250 | 3 | Minot, N. Dak. | John B. Cooley |

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INDEX BY FREQUENCIES AND DIAL NUMBERS

| | | | | | |
|-----------------|----|------|-------|-------------------|-----------------------------------|
| KTAT | ak | 1000 | 1 | Fort Worth, Texas | KTAT Broadcast Co., Inc. |
| KTFI | ak | 500 | ..... | Twin Falls, Idaho | Radio Broadcasting Corp. of Idaho |
| WACO | ak | 1000 | 1C | Waco, Texas | Central Texas Broadcasting Co. |
| WKAO | ae | 1000 | ..... | San Juan, P. R. | Radio Corp. of Porto Rico |
| WXYZ | ak | 1000 | ..... | Detroit, Mich. | Kunsky-Trendle Broadcasting Corp. |
| XEFW | z | 70 | ..... | Tampico, Mex. | Jose Expedito Martinez |

1250 kilocycles 239.9 meters

| | | | | | |
|------------------|----|------|--------|---------------------|------------------------------|
| KFEMX | aj | 1000 | 2 | Northfield, Minn. | Carleton College |
| KFOX | ae | 1000 | CT | Long Beach, Calif. | Nichols & Warinner, Inc. |
| WAAM | ae | 1000 | 1(2.5) | Newark, N. J. | WAAM, Inc. |
| WCAL | ae | 1000 | 2 | Northfield, Minn. | St. Olaf College |
| WDSU | ak | 1000 | C | New Orleans, La. | Jos. H. Uhalt |
| WGCP | ak | 250 | 1 | Newark, N. J. | May Radio Broadcasting Co. |
| WLB | ak | 1000 | 2 | Minneapolis, Minn. | University of Minnesota |
| WODA | ae | 1000 | 1 | Paterson, N. J. | Richard E. O'Dea |
| WRHM | ae | 1000 | 2 | Minneapolis, Minn. | Minnesota Broadcasting Corp. |
| XEFA | z | 500 | ..... | Mexico City, Mexico | Eduardo Limon Segui |

1260 kilocycles 238.0 meters

| | | | | | |
|-----------------|----|------|-------|----------------------|--|
| CMJI | ak | 5 | ..... | Ciego de Avila, Cuba | Gilberto Gessa Lopez |
| KOIL | ak | 1000 | B | Council Bluffs, Iowa | Mona Motor Oil Co. |
| KRGV | ae | 500 | 1 | Harlingen, Texas | KRGV, Inc. (Rio Grande Na. Life Bldg.) |
| KVOA | ak | 500 | P | Tucson, Arizona | Robert M. Riculfi |
| KWWG | z | 500 | 1 | Brownsville, Texas | Frank P. Jackson |
| WLBW | ae | 500 | C(1) | Erie, Pa. | Broadcasters of Pennsylvania, Inc. |
| WNBX | ak | 250 | D | Springfield, Vt. | WNBX Broadcasting Corp. |
| WTOC | ae | 500 | CU | Savannah, Ga. | Savannah Broadcasting Co., Inc. |

1270 kilocycles 236.1 meters

| | | | | | |
|-----------------|----|------|-------|------------------------|-----------------------------------|
| CMBC | ae | 150 | ..... | Havana, Cuba | Domingo Fernandez |
| CMJN | z | 50 | ..... | Camaguey, Cuba | E. de Ugarriza |
| KGCA | ak | 100 | D2 | Decorah, Iowa | Chas. W. Greenley |
| KOL | ae | 1000 | CT | Seattle, Wash. | Seattle Broadcasting Co. |
| KVOR | ae | 1000 | C | Colorado Springs, Col. | Reynolds Radio Co., Inc. |
| KWLC | ak | 100 | D2 | Decorah, Iowa | Luther College |
| WASH | ak | 500 | a | Grand Rapids, Mich. | Kunsky-Trendle Broadcasting Corp. |
| WFBR | ae | 500 | R | Baltimore, Md. | Baltimore Radio Show, Inc. |
| WJDX | ak | 1000 | N | Jackson, Miss. | Lamar Life Insurance Co. |
| WOOD | ak | 500 | a | Grand Rapids, Mich. | Kunsky-Trendle Broadcasting Corp. |

1280 kilocycles 234.2 meters

| | | | | | |
|-----------------|----|------|--------|--------------------|----------------------------------|
| KFBB | ae | 1000 | (2.5) | Great Falls, Mont. | Buttre Broadcast, Inc. |
| WCAM | ae | 500 | 1 | Camden, N. J. | City of Camden (City Hall Tower) |
| WCAP | ae | 500 | 1C | Asbury Park, N. J. | Radio Industries Broadcast Co. |
| WDOD | ae | 1000 | C(2.5) | Chattanooga, Tenn. | WDOD Bdctg. Corp. (Hotel Patten) |
| WIBA | ae | 500 | N(1) | Madison, Wis. | Badger Broadcasting Co., Inc. |
| WOAX | ae | 500 | 1 | Trenton, N. J. | Trenton Broadcasting Co. |
| WRRR | ae | 500 | C | Dallas, Texas | City of Dallas (Hilton Hotel) |

1290 kilocycles 232.4 meters

| | | | | | |
|-----------------|----|------|---------|----------------------|---------------------------------------|
| CMHL | z | 20 | ..... | Cienfuegos, Cuba | Oscar Zayas |
| KDYL | ak | 1000 | N | Salt Lake City, Utah | Intermountain Broadcasting Corp. |
| KFUL | ak | 500 | 1 | Galveston, Texas | News Publishing Co. (Buccaneer Hotel) |
| KLCN | z | 50 | D | Blytheville, Ark. | C. L. Lintzenich |
| KTSA | ak | 1000 | 1C(2.5) | San Antonio, Texas | Southwest Broadcast Co. (Plaza Hotel) |
| WEBC | ae | 1000 | N(2.5) | Superior, Wis. | Head of the Lakes Broadcasting Co. |
| WJAS | ak | 1000 | C(2.5) | Pittsburgh, Pa. | Pittsburgh Radio Supply House |
| WNBZ | z | 50 | D | Saranac Lake, N. Y. | Smith & Mc ce |

1300 kilocycles 230.6 meters

| | | | | | |
|-----------------|-----|------|-------|---------------------|-----------------------------------|
| CMKJ | z | 20 | ..... | Guantanamo, Cuba | Luis Morlote |
| KALE | ak | 500 | 3C | Portland, Ore. | KALE, Inc. |
| KFAC | aj | 1000 | ..... | Los Angeles, Calif. | Los Angeles Broadcasting Co. |
| KFH | ae | 1000 | C | Wichita, Kans. | Wichita Eagle-Hotel Lassen |
| KFJR | ag | 500 | 3 | Portland, Ore. | Ashley C. Dixon-KFJR, Inc. |
| WBER | aej | 1000 | 1 | Brooklyn, N. Y. | Peoples Pulpit Assn. |
| WEVD | ae | 500 | 1 | New York City | Debs Memorial Radio Fund, Inc. |
| WFAB | z | 1000 | 1 | New York City | Fifth Avenue Broadcasting Corp. |
| WHAZ | ae | 500 | 1 | Troy, N. Y. | Rensselaer Polytechnic Institute |
| WIOD | ae | 1000 | N | Miami, Fla. | Isle of Dreams Broadcasting Corp. |
| WQO | ae | 1000 | | Kansas City, Mo. | Unity School of Christianity |

KYCS.
1300
MTRS.
230.6
DIAL

CUT OUT ON DOTTED LINES

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INDEX BY FREQUENCIES AND DIAL NUMBERS

1310 kilocycles 228.9 meters

| | | | | | | | | | |
|------|----|-----|--------|------------------------|--|--|--|--------------------------------------|--|
| | | | | | | | | | |
| CMJP | z | 7.5 | | Moron, Cuba | | | | Cesar Canals | |
| KCRJ | ak | 100 | D | Jerome, Arizona | | | | Chas. C. Robinson | |
| KFBK | ak | 100 | C | Sacramento, Calif. | | | | Jas. McClatchy Co. | |
| KFGQ | ak | 100 | 7 | Boone, Iowa | | | | Boone Biblical College | |
| KFPL | ck | 100 | ..... | Dublin, Texas | | | | C. C. Baxter | |
| KFPM | ae | 15 | ..... | Greenville, Texas | | | | New Furniture Co. | |
| KFXR | ak | 100 | (.25) | Oklahoma City, Okla. | | | | Exchange Ave. Baptist Church | |
| KFYO | ak | 100 | (.25)Z | Lubbock, Texas | | | | Kirksey Brothers | |
| KGBX | ae | 100 | ..... | Springfield, Mo. | | | | KGBX, Inc. | |
| KGCX | ak | 100 | (.25) | Wolf Point, Mont. | | | | First State Bank of Vida | |
| KGEZ | aj | 100 | ..... | Kalispell, Mont. | | | | Donald C. Treloar | |
| KGFV | ah | 100 | ..... | Kearney, Neb. | | | | Central Nebraska Bdctg. Corp. | |
| KIFH | z | 100 | ..... | Juneau, Alaska | | | | Juneau Broadcasting Co. | |
| KIT | ak | 100 | ..... | Yakima, Wash. | | | | Valley Broadcasters, Inc. | |
| KMED | ak | 100 | ..... | Medford, Ore. | | | | Mrs. W. J. Virgin | |
| KRMD | ak | 100 | ..... | Shreveport, La. | | | | KRMD, Inc. (Jefferson Hotel) | |
| KTSM | z | 100 | a | El Paso, Texas | | | | Tri-State Broadcasting Co., Inc. | |
| KXRO | ak | 100 | ..... | Aberdeen, Wash. | | | | KXRO, Inc. (Hotel Morck) | |
| WBEO | z | 100 | ..... | Marquette, Mich. | | | | Lake Superior Broadcasting Co. | |
| WBOW | ak | 100 | ..... | Terre Haute, Ind. | | | | Banks of Wabash, Inc. | |
| WBRE | z | 100 | ..... | Wilkes-Barre, Pa. | | | | Louis G. Baltimore | |
| WCLS | ae | 100 | b | Joliet, Ill. | | | | WCLS, Inc. | |
| WDAH | z | 100 | a | El Paso, Texas | | | | Tri-State Broadcasting Co., Inc. | |
| WBEB | ae | 100 | Q(.25) | Buffalo, N. Y. | | | | Howell Broadcasting Station | |
| WEXL | ak | 50 | ..... | Royal Oak, Mich. | | | | Royal Oak Broadcasting Co. | |
| WFBG | ae | 100 | 3 | Altoona, Pa. | | | | The Gable Broadcasting Co. | |
| WDFD | ae | 100 | ..... | Flint, Mich. | | | | Frank D. Fallain (Union Ind. Bldg.) | |
| WGAL | ae | 100 | 5 | Lancaster, Pa. | | | | WGAL, Inc. (Lancaster Newsp. Bldg.) | |
| WGH | ae | 100 | ..... | Newport News, Va. | | | | Hampton Roads Broadcasting Corp. | |
| WHAT | ak | 100 | 4 | Philadelphia, Pa. | | | | Independence Broadcasting Co. | |
| WIAS | ak | 100 | 7 | Ottumwa, Iowa | | | | Iowa Bdctg. Co. (Hotel Ottumwa) | |
| WJAC | ae | 100 | 3 | Johnstown, Pa. | | | | WJAC, Inc. | |
| WKAV | ae | 100 | ..... | Laconia, N. H. | | | | Laconia Radio Club | |
| WKBB | ae | 100 | bYZ | Joliet, Ill. | | | | Richard W. Hoffman | |
| WKBC | z | 100 | ..... | Birmingham, Ala. | | | | R. B. Broyles Furniture Co. | |
| WKBS | z | 100 | ..... | Galesburg, Ill. | | | | Permil N. Nelson | |
| WLBC | ak | 50 | 6 | Muncie, Ind. | | | | D. A. Burton—A. J. Marriott | |
| WMBO | ak | 100 | ..... | Auburn, N. Y. | | | | WMBO, Inc. (Masonic Temple) | |
| WNBH | ae | 100 | H(.25) | New Bedford, Mass. | | | | New Bedford Bdctg. Co. (N. B. Hotel) | |
| WOL | ae | 100 | ..... | Washington, D. C. | | | | American Broadcasting Co. | |
| WRAW | ak | 100 | 5X | Reading, Pa. | | | | Reading Broadcasting Co. | |
| WROL | ak | 100 | ..... | Knoxville, Tenn. | | | | Stuart Bdctg. Co. (Farragut Hotel) | |
| WSAJ | ae | 100 | ..... | Grove City, Pa. | | | | Grove City College | |
| WSJS | ae | 100 | C | Winston-Salem, N. C. | | | | Winston-Salem Journal Co. | |
| WTFL | ae | 100 | 4 | Philadelphia, Pa. | | | | Foulkrod Radio Eng. Co., Inc. | |
| WTJS | ak | 100 | (.25) | Jackson, Tenn. | | | | Sun Publishing Co. (Sun Bldg.) | |
| WTRC | ak | 50 | 6(.1) | Elkhart, Ind. | | | | Elkhart Daily Truth | |
| WTSL | z | 100 | ..... | Laurel, Miss. | | | | Southland Radio Corp. | |
| XEFB | ak | 100 | 1315 | Monterrey, N. L., Mex. | | | | Quintanilla y Stevenson | |
| XEI | ak | 150 | ..... | Morelia, Mexico | | | | Carlos Gutierrez M. | |

1320 kilocycles 227.1 meters

| | | | | | | | | | |
|------|----|------|------|--------------------|--|--|--|-----------------------------|--|
| | | | | | | | | | |
| CMBF | z | 150 | 1325 | Havana, Cuba | | | | Ramon Bardales | |
| CMCY | ak | 1000 | 1325 | Havana, Cuba | | | | M. D. Autran | |
| KGHF | ak | 250 | (.5) | Pueblo, Colo. | | | | C. P. Ritchie & J. E. Finch | |
| KGMB | ak | 250 | C | Honolulu, Hawaii | | | | Honolulu Broadcasting Co. | |
| KID | ae | 250 | (.5) | Idaho Falls, Idaho | | | | KID Broadcasting Co., Inc. | |
| WADC | ae | 1000 | C | Akron, Ohio | | | | Allan T. Simmons | |
| WSMB | ae | 500 | N | New Orleans, La. | | | | WSMB, Inc. | |

1330 kilocycles 225.4 meters

| | | | | | | | | | |
|------|----|------|---------|-------------------|--|--|--|-----------------------------|--|
| | | | | | | | | | |
| KGB | ae | 1000 | CT | San Diego, Calif. | | | | Don Lee Broadcasting System | |
| KMO | ak | 250 | ..... | Tacoma, Wash. | | | | KMO, Inc. (Hotel Winthrop) | |
| KSCJ | ah | 1000 | 1C(2.5) | Sioux City, Iowa | | | | Perkins Bros. Co. | |
| WDRC | ae | 500 | CH | Hartford, Conn. | | | | WDRC, Inc. | |
| WSAI | ae | 500 | R(1) | Cincinnati, Ohio | | | | The Crosley Radio Corp. | |
| WTAQ | ae | 1000 | 1C | Eau Claire, Wis. | | | | The Gillette Rubber Co. | |

1340 kilocycles 223.7 meters

| | | | | | | | | | |
|------|-----|------|-------|-----------------|--|--|--|--|--|
| | | | | | | | | | |
| KFPY | ae | 1000 | CT | Spokane, Wash. | | | | Symons Bdctg. Co. (Symons Bldg.) | |
| WCOA | agj | 500 | ..... | Pensacola, Fla. | | | | Pensacola Bdctg. Co. (San Carlos Hot.) | |
| WSPD | ae | 1000 | C | Toledo, Ohio | | | | Toledo Bdctg. Co. (Com. Perry Hotel) | |

12

INDEX BY FREQUENCIES AND DIAL NUMBERS

1350 kilocycles 222.1 meters

| | | | | |
|-------------------|----|------|-------|------------------|
| K KIDO | ak | 1000 | ..... | Boise, Idaho |
| K KWK | ak | 1000 | B | St. Louis, Mo. |
| WAWZ | ae | 250 | 1 | Zarephath, N. J. |
| WBXX | ae | 250 | 1a | New York City |
| WCDA | ae | 250 | 1a | New York City |
| WEHC | ae | 500 | DY | Emory, Va. |
| WMSG | ae | 250 | 1a | New York City |

C. G. Phillips & Frank Hill
Thomas Patrick, Inc. (Hotel Chase)
Pillar of Fire
New York Met. Broadcasting Corp.
Italian Educ. Bdctg. Co., Inc.
Emory & Henry College
New York Met. Broadcasting Corp.

1360 kilocycles 220.4 meters

| | | | | |
|------------------|-----|------|--------|---------------------|
| K GER | ah | 1000 | ..... | Long Beach, Calif. |
| K GR | ak | 500 | NJ | Butte, Mont. |
| W CSC | ak | 500 | ..... | Charleston, S. C. |
| W FBL | ak | 1000 | C(2,2) | Syracuse, N. Y. |
| W GES | ae | 500 | 1(1) | Chicago, Ill. |
| W KS | agj | 1000 | 1Z | Gary, Ind. |
| W OBC | ak | 500 | ..... | Vicksburg, Miss. |
| XEFH | z | 250 | P | Mexico City, Mexico |

Consolidated Bdctg. Co. (R/C Los An.)
KGR, Inc.
So. Carolina Broadcasting Co., Inc.
Onondaga Radio Broadcasting Corp.
Oak Leaves Broadcasting Station, Inc.
Johnson-Kennedy Radio Corp.
Delta Bdctg. Co. (Post-Herald Station)
Francisco Hornedo

1370 kilocycles 218.8 meters

| | | | | |
|------------------|----|-----|--------|----------------------|
| CMCR | z | 150 | 1375 | Havana, Cuba |
| CMGE | z | 30 | 1375 | Cardenas, Cuba |
| K CRC | ak | 100 | 2(.25) | Enid, Okla. |
| KFBL | aj | 50 | 3 | Everett, Wash. |
| K FJM | zk | 100 | ..... | Grand Forks, N. Dak. |
| K FJZ | ae | 100 | ..... | Fort Worth, Texas |
| KFLX | z | 100 | ..... | Galveston, Texas |
| KGAR | ae | 100 | (.25) | Tucson, Arizona |
| KGDA | ak | 100 | ..... | Mitchell, S. Dak. |
| KGFG | bk | 100 | 2 | Oklahoma City, Okla. |
| KGFL | zk | 100 | 4-Y | Santa Fe, N. Mex. |
| KGKL | ak | 100 | ..... | San Angelo, Texas |
| KICA | z | 100 | 4 | Clovis, N. Mex. |
| KMAC | ak | 100 | 5 | San Antonio, Texas |
| KONO | ak | 100 | 5 | San Antonio, Texas |
| KOOS | ae | 100 | ..... | Marshfield, Ore. |
| KRE | ak | 100 | ..... | Berkeley, Calif. |
| K SO | ak | 100 | B(.25) | Des Moines, Iowa |
| KUJ | ak | 100 | D | Walla Walla, Wash. |
| KVL | z | 100 | 3 | Seattle, Wash. |
| K WKC | z | 100 | 7 | Kansas City, Mo. |
| WBTM | ak | 100 | 7 | Danville, Va. |
| WCBM | ae | 100 | Z(.25) | Baltimore, Md. |
| WDAS | ae | 100 | (.25) | Philadelphia, Pa. |
| WGLC | z | 50 | Y(1) | Hudson Falls, N. Y. |
| WGL | ae | 100 | C | Fort Wayne, Ind. |
| WHBD | bk | 100 | ..... | Mount Orab, Ohio |
| WHBQ | ak | 100 | ..... | Memphis, Tenn. |
| WHDF | ak | 100 | (.25) | Calumet, Mich. |
| WIBM | ae | 100 | 1 | Jackson, Mich. |
| WIBK | ae | 50 | 1Q | Detroit, Mich. |
| WJEO | z | 100 | 6P | Williamsport, Pa. |
| WJTL | ae | 100 | ..... | Atlanta, Ga. |
| WLEY | ae | 100 | (.25) | Lexington, Mass. |
| WLVA | ck | 100 | 7 | Lynchburg, Va. |
| WMBR | ak | 100 | ..... | Tampa, Fla. |
| WPFF | ak | 100 | ..... | Hattiesburg, Miss. |
| WQDM | ae | 100 | D | St. Albans, Vt. |
| WRAK | ak | 100 | 6 | Williamsport, Pa. |
| WRAM | ak | 100 | ..... | Wilmington, N. C. |
| WRDO | ae | 100 | ..... | Augusta, Maine |
| WRJN | ae | 100 | ..... | Racine, Wis. |
| WXS | ak | 50 | ..... | Buffalo, N. Y. |
| XEFV | z | 50 | ..... | Juarez, Mexico |

Aurelio Hernandez
Genaro Sebater
Enid Radiophone Co. (Oxford Hotel)
Leese Bros.
University of North Dakota
Fort Worth Broadcasters, Inc.
George Roy Clough
Tucson Motor Service Co.
Mitchell Broadcasting Corp.
Oklahoma Broadcasting Co., Inc.
KGFL, Inc.
KGKL, Inc. (St. Angelus Hotel)
Southwest Broadcasting Co.
Walmac Co., Inc. (Blue Bonnet Stud.)
Mission Broadcasting Co.
H. H. Hanseth, Inc. (Hall Bldg.)
First Cong. Church of Berkeley
Iowa Broadcasting Co.
KUJ, Inc. (Marcus Whitman Hotel)
KVL, Inc.
Wilson Duncan Broadcasting Co.
Piedmont Broadcasting Corp.
Baltimore Broadcasting Corp.
WDAS Bdctg. Sta., Inc. (Elks Hotel)
O. T. Griffin & G. F. Bissell
F. C. Zieg
F. P. Moler
Station WHBQ, Inc. (Hotel Claridge)
Upper Michigan Broadcasting Co.
WIBM, Inc. (Otsega Hotel)
James F. Hopkins, Inc. (Curtiss Bldg.)
Sun-Gazette Broadcasting Co.
Oglethorpe University
Lexington Air Station
Lynchburg Broadcasting Corp.
F. J. Reynolds
Hattiesburg Broadcasting Co.
A. J. St. Antoine & E. J. Regan
C. R. Cummins (Penn Central Bldg.)
Wilmington Radio Assn., Inc.
WRDO, Inc. (Augusta House)
Racine Bdctg. Corp. (Hotel Racine)
Seneca Vocational School
Jose Onofre Meza

KCY.S.
1380
MTRS
217.3
DIAL

ON DOTTED LINES

1380 kilocycles 217.3 meters

| | | | | |
|------------------|----|------|-------|----------------------|
| CMJC | z | 150 | 1382 | Camaguey, Cuba |
| KOH | ak | 500 | C | Reno, Nevada |
| KOV | ak | 500 | 2 | Pittsburgh, Pa. |
| WRBH | aj | 1000 | 1C | LaCrosse, Wis. |
| W SMK | ak | 200 | 2 | Dayton, Ohio |
| XETB | z | 125 | ..... | Torreón, Coah., Mex. |

Feliciano Isaac
McClatchy Newspapers
KOV Bdctg. Co. (Investment Bldg.)
WRBH, Inc. (Radio Bldg.)
Stanley M. Krohn, Jr.
Jose A. Berumen

INDEX BY FREQUENCIES AND DIAL NUMBERS

1390 kilocycles 215.7 meters

| | | | | |
|------|----|------|--------|--------------------|
| CMCH | ak | 50 | 1395 | Havana, Cuba |
| CMCM | z | 15 | 1395 | Havana, Cuba |
| CMDB | z | 40 | 1395 | Havana, Cuba |
| KLRA | ae | 1000 | 1C | Little Rock, Ark. |
| KOY | ae | 500 | C | Phoenix, Arizona |
| KUOA | bk | 1000 | 1 | Fayetteville, Ark. |
| WVHK | ae | 1000 | C(2.5) | Cleveland, Ohio |

| | | |
|--|--|--|
| | | |
| Wifredo & Hum. Fontanals Sanchez | | |
| Aurelio Balino | | |
| Julio Powers | | |
| Arkansas Broadcasting Co. | | |
| Nielsen Radio & Sporting Goods Co. | | |
| Southwestern Hotel Co. (Ft. Smith) | | |
| Radio Air Service Corp. (Higbee Store) | | |

1400 kilocycles 214.2 meters

| | | | | |
|------|----|-----|-------|--------------------|
| KLO | ae | 500 | ..... | Ogden, Utah |
| KOCW | z | 250 | (.5) | Chickasha, Okla. |
| WBAA | ak | 500 | 1 | Lafayette, Ind. |
| WBBC | ae | 500 | 2 | Brooklyn, N. Y. |
| WCCG | ak | 500 | 2 | Brooklyn, N. Y. |
| WCMA | ak | 500 | 1 | Culver, Ind. |
| WFOX | ak | 500 | 2 | Brooklyn, N. Y. |
| WKBF | ak | 500 | 1W | Indianapolis, Ind. |
| WLTH | ae | 500 | 2 | Brooklyn, N. Y. |

| | | |
|----------------------------------|--|--|
| | | |
| Interstate Bcg. Corp. | | |
| J. T. Griffin | | |
| Purdue University | | |
| Brooklyn Broadcasting Corp. | | |
| United States Broadcasting Corp. | | |
| General Broadcasting, Inc. | | |
| Paramount Broadcasting Co. | | |
| Indianapolis Broadcasting, Inc. | | |
| Voice of Brooklyn, Inc. | | |

1410 kilocycles 212.6 meters

| | | | | |
|-------|----|------|-----|-------------------|
| KFLV | ak | 500 | 4 | Rockford, Ill. |
| KGRS | ae | 1000 | 1 | Amarillo, Texas |
| WAAB | ae | 500 | CH | Boston, Mass. |
| WBECM | ae | 500 | C | Bay City, Mich. |
| WDAG | ae | 1000 | 1 | Amarillo, Texas |
| WHBL | ae | 500 | 4 | Sheboygan, Wis. |
| WHIS | ak | 250 | 2 | Bluefield, W. Va. |
| WODX | ea | 500 | 3CU | Mobile, Ala. |
| WRBX | ae | 250 | 2 | Roanoke, Va. |
| WSFA | ak | 500 | 3C | Montgomery, Ala. |

| | | |
|-----------------------------------|--|--|
| | | |
| Rockford Broadcasters, Inc. | | |
| E. B. Gish | | |
| Bay State Broadcasting Corp. | | |
| James E. Davidson | | |
| National Radio & Bdctg. Corp. | | |
| The Press Publishing Co. | | |
| Daily Telegraph | | |
| Mobile Broadcasting Corp. | | |
| Richmond Development Corp. | | |
| Montgomery Broadcasting Co., Inc. | | |

1420 kilocycles 211.1 meters

| | | | | |
|------|----|-----|--------|-----------------------|
| KABC | ak | 100 | ..... | San Antonio, Texas |
| KBPS | aj | 100 | 4 | Portland, Ore. |
| KCMC | ak | 100 | ..... | Texarkana, Ark. |
| KFIZ | ak | 100 | ..... | Fond du Lac, Wis. |
| KGFF | ak | 100 | ..... | Shawnee, Okla. |
| KGGC | ak | 100 | 5 | San Francisco, Calif. |
| KGIW | ak | 100 | 1 | Trinidad, Colo. |
| KGIX | ak | 100 | ..... | Las Vegas, Nevada |
| KGKX | z | 100 | ..... | Lewiston, Idaho |
| KICK | z | 100 | ..... | Red Oak, Iowa |
| KIDW | ak | 100 | 1 | Lamar, Colo. |
| KORE | ae | 100 | ..... | Eugene, Ore. |
| KUMA | ak | 100 | ..... | Yuma, Arizona |
| KWCR | ae | 100 | B(.25) | Cedar Rapids, Iowa |
| KXL | ae | 100 | 4 | Portland, Ore. |
| WAGM | af | 100 | ..... | Presque Isle, Maine |
| WAMC | ae | 100 | ..... | Anniston, Ala. |
| WAZL | z | 100 | 2 | Hazleton, Pa. |
| WEHS | ak | 100 | a | Cicero, Ill. |
| WELL | z | 50 | ..... | Battle Creek, Mich. |
| WBNC | ak | 100 | D | Americus, Ga. |
| WHDL | ae | 100 | D | Tupper Lake, N. Y. |
| WHFC | ae | 100 | a | Cicero, Ill. |
| WILM | ae | 100 | 2 | Wilmington, Del. |
| WJBO | z | 100 | D | New Orleans, La. |
| WJMS | ak | 100 | ..... | Ironwood, Mich. |
| WKBI | ak | 100 | a | Cicero, Ill. |
| WLBF | ae | 100 | ..... | Kansas City, Kans. |
| WMAS | ak | 100 | CH | Springfield, Mass. |
| WMBC | ae | 100 | (.25) | Detroit, Mich. |
| WMBH | ak | 100 | (.25) | Joplin, Mo. |
| WPAD | ak | 100 | ..... | Paducah, Ky. |
| WSPA | ae | 100 | (.25) | Spartanburg, S. C. |
| WTBO | ae | 100 | (.25) | Cumberland, Md. |

| | | |
|---------------------------------------|--|--|
| | | |
| Alamo Bctg. Co., Inc. (Texas Theatre) | | |
| Student Body Benson Polytech. School | | |
| Texarkana Gazette & Daily News | | |
| Reporter Printing Co. | | |
| KGFF Bdctg. Co. (Aldridge Hotel) | | |
| Golden Gate Broadcasting Co. | | |
| Leonard E. Wilson | | |
| J. M. Heaton | | |
| Sand Point Broadcasting Co. | | |
| Red Oak Radio Corp. | | |
| Lamar Broadcasting Co. | | |
| Frank L. Hill & Curtis G. Phillips | | |
| Dr. Albert H. Schermann | | |
| Cedar Rapids Broadcast Co. | | |
| KXL Broadcasters (Hotel Multnomah) | | |
| Aroostook Broadcasting Corp. | | |
| Raymond C. Hammett (Alabama Hot.) | | |
| Hazleton Brdctg. Service, Inc. | | |
| WEHS, Inc. | | |
| Enquirer-News Co. | | |
| Americus Broadcast Co. | | |
| Tupper Lake Broadcasting Co., Inc. | | |
| WHFC, Inc. | | |
| Delaware Broadcasting Co. | | |
| Baton Rouge Brdctg. Co., Inc. | | |
| WJMS, Inc. (St. James Hotel) | | |
| WKBI, Inc. | | |
| WLBF Bdctg. Co. (Aladdin Hotel) | | |
| Albert S. Moffet | | |
| Michigan Broadcasting Co. | | |
| W. M. Robertson | | |
| Paducah Bdctg. Co. (Ritz Hotel) | | |
| The Voice of South Carolina | | |
| Interstate Broadcasting System, Inc. | | |

1430 kilocycles 209.7 meters

| | | | | |
|------|----|------|-------|---------------------|
| KECA | ah | 1000 | N | Los Angeles, Calif. |
| KGNF | ak | 500 | D | North Platte, Neb. |
| WBNA | ak | 500 | I(1)D | Harrisburg, Pa. |

| | | |
|-------------------------------|--|--|
| | | |
| Earle C. Anthony, Inc. | | |
| Great Plains Broadcasting Co. | | |
| Pennsylvania State Police | | |

INDEX BY FREQUENCIES AND DIAL NUMBERS

| | | | | |
|-----------------|----|-----|-------|-------------------|
| WCAH | ae | 500 | 1C | Columbus, Ohio |
| WFEA | ae | 500 | CH | Manchester, N. H. |
| WHEC | ae | 500 | C | Rochester, N. Y. |
| WHP | ak | 500 | 1C(1) | Harrisburg, Pa. |
| WNBK | ae | 500 | ..... | Memphis, Tenn. |
| WOKO | ae | 500 | C | Albany, N. Y. |

| |
|------------------------------------|
| Commercial Radio Service Co. |
| New Hampshire Broadcasting Co. |
| WHEC, Inc. (Roch. Sav. Bank Bldg.) |
| WHP, Inc. (Harrisburg Telegraph) |
| Memphis Bdc'tg. Co. (WGBC) |
| WOKO, Inc. (Hotel Ten Eyck) |

1440 kilocycles 208.2 meters

| | | | | |
|-----------------|----|-----|-------|-------------------|
| CMBL | ak | 20 | 1444 | Havana, Cuba |
| CMBN | ak | 30 | 1444 | Havana, Cuba |
| KDFN | ak | 500 | ..... | Casper, Wyo. |
| KLS | ae | 250 | D | Oakland, Calif. |
| KXYZ | ak | 500 | ..... | Houston, Texas |
| WBIG | ae | 500 | C(1) | Greensboro, N. C. |
| WCBA | ah | 250 | a | Allentown, Pa. |
| WMBD | ae | 500 | 3C(1) | Peoria, Ill. |
| WSAN | z | 250 | a | Allentown, Pa. |
| WTAD | ak | 500 | 3 | Quincy, Ill. |

| |
|-------------------------------------|
| Julio C. Hidalgo |
| Armando Romeu Marrero |
| Donald L. Hathaway |
| Warner Bros. |
| Harris County Broadcasting Co. |
| No. Carolina Broadcasting Co., Inc. |
| B. Bryan Musselman |
| Peoria Broadcasting Co. |
| Allentown Call Publishing Co., Inc. |
| Illinois Broadcasting Corp. |

1450 kilocycles 206.8 meters

| | | | | |
|-----------------|----|------|-------|--------------------|
| KTBS | ae | 1000 | N | Shreveport, La. |
| WGAR | ak | 500 | B(1.) | Cleveland, Ohio |
| WHOM | ae | 250 | ..... | Jersey City, N. J. |
| WSAR | ae | 250 | ..... | Fall River, Mass. |
| WTFI | ak | 500 | ..... | Athens, Ga. |

| |
|------------------------------------|
| Tri-State Bdc'tg. System, Inc. |
| WGAR Broadcasting Co., Inc. |
| New Jersey Broadcasting Corp. |
| Doughty & Welch Electric Co., Inc. |
| Liberty Broadcasting Co. |

1460 kilocycles 205.4 meters

| | | | | |
|-----------------|----|-------|---|-------------------|
| KSTP | ae | 10000 | N | St. Paul, Minn. |
| WJSV | ck | 10000 | C | Washington, D. C. |

| |
|-----------------------------------|
| National Battery Broadcasting Co. |
| Old Dominion Broadcasting Co. |
| (Transmitter at Alexandria, Va.) |

1470 kilocycles 204.0 meters

| | | | | |
|-----------------|----|------|---|------------------|
| KGA | ak | 5000 | B | Spokane, Wash. |
| WLAC | ae | 5000 | C | Nashville, Tenn. |

| |
|-------------------------------|
| Northwest Broadcasting System |
| Life & Casualty Insurance Co. |

1480 kilocycles 202.6 meters

| | | | | |
|-----------------|----|------|------|----------------------|
| CMBK | z | 15 | 1485 | Havana, Cuba |
| KOMA | ak | 5000 | C | Oklahoma City, Okla. |
| WKBW | ae | 5000 | C | Buffalo, N. Y. |

| |
|----------------------------|
| Alberto Alvarez |
| National Radio Mfg. Co. |
| Buffalo Broadcasting Corp. |

1490 kilocycles 201.2 meters

| | | | | |
|-----------------|----|------|---|----------------|
| WCKY | ae | 5000 | N | Covington, Ky. |
|-----------------|----|------|---|----------------|

| |
|-------------------------------------|
| L. B. Wilson, Inc. (Mabley & Carew) |
|-------------------------------------|

1500 kilocycles 199.9 meters

| | | | | |
|-----------------|----|-----|--------|-----------------------|
| CMBR | z | 40 | ..... | Havana, Cuba |
| KDB | ak | 100 | CT | Santa Barbara, Calif. |
| KGFI | aj | 100 | (.25) | Corpus Christi, Texas |
| KGFK | ak | 100 | ..... | Moorhead, Minn. |
| KGIZ | ak | 100 | ..... | Grant City, Mo. |
| KGKB | bk | 100 | ..... | Tyler, Texas |
| KGKY | ck | 100 | ..... | Scottsbluff, Neb. |
| KNOW | ak | 100 | ..... | Austin, Texas |
| KPJM | ak | 100 | ..... | Prescott, Arizona |
| KPO | aj | 100 | ..... | Wenatchee, Wash. |
| KREG | ak | 100 | ..... | Santa Ana, Calif. |
| KXO | az | 100 | ..... | El Centro, Calif. |
| WFDV | ak | 100 | ..... | Rome, Ga. |
| WHF | ak | 100 | (.25) | Kosciusko, Miss. |
| WKBV | z | 100 | ..... | Connersville, Ind. |
| WKBZ | ak | 100 | ..... | Ludington, Mich. |
| WLOB | ae | 100 | (.25) | Boston, Mass. |
| WMBQ | ae | 100 | 1 | Brooklyn, N. Y. |
| WMIL | ak | 100 | 1 | Brooklyn, N. Y. |
| WNBP | ak | 100 | ..... | Lapeer, Mich. |
| WOP | ae | 100 | ..... | Binghamton, N. Y. |
| WPE | ae | 100 | ..... | Bristol, Tenn. |
| WRDW | ae | 100 | (.25) | Philadelphia, Pa. |
| WSYB | ae | 100 | ..... | Augusta, Ga. |
| WWRL | ak | 100 | ..... | Rutland, Vt. |
| WWSW | ak | 100 | 1 | Woodside, N. Y. |
| XEFZ | ae | 100 | X(.25) | Pittsburgh, Pa. |
|  |  |  | ..... | Coyoacan, Mexico |

| |
|-----------------------------------|
| Tomas Basail |
| Santa Barbara Broadcasters, Ltd. |
| Eagle Broadcasting Co., Inc. |
| Red River Broadcasting Co., Inc. |
| Grant City Park Corp. |
| East Texas Broadcasting Co. |
| Hilliard Co., Inc. |
| KUT Bdc'tg. Co. (Driskill Hotel) |
| Scott & Sturm |
| Wescoast Broadcasting Co. |
| Voice of Orange Empire, Inc. |
| E. R. Irey and F. M. Bowles |
| Rome Broadcasting Corp. |
| Attala Milling & Produce Co. |
| William O. Knox |
| K. L. Ashbacher |
| Boston Broadcasting Co. (WRSC) |
| Paul J. Gollhofer |
| Arthur Paske |
| First Methodist Protestant Church |
| Howitt-Wood Radio Co., Inc. |
| Radiohone Bdc'tg. Station WOPI |
| Wm. Penn Broadcasting Co. |
| Musicove, Inc. (Relays WLW) |
| Philip Weiss Music Co. |
| Long Island Broadcasting Corp. |
| Walker & Downing Radio Corp. |
| Manuel Zetina |

KCY.S.
1500
MTRS.
199.9
DIAL

INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

| ALABAMA | | | | ALASKA | | | | ARIZONA | | | | ARKANSAS | | | | CALIFORNIA | | | | COLORADO | | | | CONNECTICUT | | | | DELAWARE | | | | DISTRICT OF COLUMBIA | | | | FLORIDA | | | | GEORGIA | | | | HAWAII | | | | IDAHO | | | |
|-------------------|-----|-------|------|--------|-------------|-----------|------|---------|------|------------------|------------|----------|------|-------|---------------------|------------------|------|-------|------|----------------------|--------------------|-------|------|-------------|----------------|--------------|------|----------|------|-------|-----------------|----------------------|------|-------|------|---------|--|-------|--|---------|--|-------|--|--------|--|-------|--|-------|--|--|--|
| | | Watts | | | | Watts | | | | Watts | | | | Watts | | | | Watts | | | | Watts | | | | Watts | | | | Watts | | | | Watts | | | | Watts | | | | Watts | | | | Watts | | | | | |
| Anniston O-21 tr | | 100 | WAMC | | 1420 | Anchorage | 250 | KFOD | | 1230 | Jerome M-6 | 100 | KCRJ | | 1310 | Blytheville M-19 | 50 | KLCN | | 1290 | Bakersfield L-2 br | 100 | KERN | C | 1200 | San Jose J-1 | 500 | KQW | | 1010 | Americus P-22 c | 100 | WENC | | 1420 | | | | | | | | | | | | | | | | |
| Birmingham O-21 | 500 | WAPI | N | 1140 | Juneau | 100 | KIFH | | 1310 | Phoenix N-6 | 500 | KOY | C | 1390 | Fayetteville M-16 | 1000 | KUOA | | 1390 | Berkeley J-2 | 100 | KRE | | 1370 | Athens N-23 bc | 500 | WTFI | | 1450 | | | | | | | | | | | | | | | | | | | | | | |
| | 500 | WBRC | C | 930 | Ketchikan | 500 | KGBU | | 900 | Prescott M-6 | 500 | KTAR | N | 620 | Fort Smith N-16 | 100 | KFPW | | 1210 | Beverly Hills M-3 bl | 500 | KMPC | | 710 | Atlanta O-22 | 250 | WGST | C | 890 | | | | | | | | | | | | | | | | | | | | | | |
| Gadsden O-21 | 100 | WKBC | | 1310 | | | | | | Tucson O-7 | 100 | KPJM | | 1500 | Hot Springs N-17 | 10000 | KTHS | N | 1040 | El Centro N-4 | 500 | KELW | | 780 | Augusta O-23 | 100 | WRDW | | 1500 | | | | | | | | | | | | | | | | | | | | | | |
| Huntsville N-21 c | 100 | WJBY | | 1210 | Yuma O-5 tl | 100 | KUMA | | 1420 | Little Rock N-17 | 100 | KGAR | | 1370 | Eureka H-1 tc | 100 | KIEM | | 1210 | Columbus O-22 | 500 | WRBL | | 1200 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mobile Q-20 | 500 | WODX | C | 1410 | | | | | | Fresno K-2 | 500 | KMJV | C | 580 | Jacksonville Q-24 | 1000 | WJAX | N | 900 | Macon O-23 | 500 | WMAZ | | 1180 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Montgomery P-21 | 500 | WSFA | C | 1410 | | | | | | Glendale M-3 | 100 | KIEV | | 850 | Miami T-25 | 1000 | WIOD | N | 1300 | Rome N-22 | 100 | WFDV | | 1500 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Troy P-21 rc | 100 | WHET | | 1210 | | | | | | Hollywood M-3 | 500 | KMTR | | 570 | Orlando R-24 | 250 | WDBO | C | 580 | Savannah O-24 | 500 | WTOC | C | 1260 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | Long Beach M-3 | 1000 | KFOX | C | 1250 | Pensacola Q-21 | 500 | WCOA | | 1340 | Thomasville Q-22 | 100 | WQDX | | 1210 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | Los Angeles M-3 | 1000 | KGER | | 1360 | St. Petersburg S-24 | 1000 | WSUN | N | 620 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 5000 | KFI | N | 640 | Tampa R-24 | 1000 | WDAE | C | 1220 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 1000 | KFAC | | 1300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 50000 | KFI | N | 640 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 500 | KFSG | | 1120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 250 | KFVD | | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 1000 | KFWB | | 950 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 100 | KGFB | | 1200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 1000 | KHJ | C | 900 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 500 | KRKC | | 1120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 500 | KTM | | 780 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 250 | KLS | | 1440 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 500 | KLX | | 880 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 500 | KROW | | 930 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 50 | KPPC | | 1210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 100 | KFBK | C | 1310 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 100 | KFKM | N | 1210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 1000 | KFSD | N | 600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 1000 | KGB | C | 1330 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 1000 | KFRC | C | 610 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 500 | KFWI | | 930 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 100 | KGGC | | 1420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 7500 | KGO | N | 790 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 100 | KJBS | | 1070 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 5000 | KPO | N | 680 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 1000 | KTAB | | 560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | 1000 | KYA | N | 1230 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

ILLINOIS

| | Watts | | Kcys. |
|------------------|-------|--------|-------|
| Carthage J-18 | 50 | WCAZ | 1070 |
| Chicago I-20 | 10000 | KFKX | 1020 |
| | 10000 | KYV N | 1020 |
| | 500 | WAAF | 920 |
| | 25000 | WBMM C | 770 |
| | 1500 | WCFL R | 970 |
| | 100 | WCRW | 1210 |
| | 100 | WEDC | 1210 |
| | 50000 | WENR N | 870 |
| | 500 | WGES | 1360 |
| | 25000 | WGN C | 720 |
| | 1000 | WIBO | 560 |
| | 20000 | WJJD | 1130 |
| | 50000 | WLS N | 870 |
| | 5000 | WMAQ N | 670 |
| | 5000 | WMBI | 1080 |
| | 500 | WPCC | 560 |
| | 100 | WSBC | 1210 |
| Cicero I-20 | 100 | WEHS | 1420 |
| | 100 | WHFC | 1420 |
| | 100 | WKBI | 1420 |
| | 100 | WJBL | 1200 |
| Decatur K-19 | 100 | WKBS | 1310 |
| Galesburg J-18 | 100 | WBEO | 1210 |
| Harrisburg L-19 | 100 | WCLS | 1310 |
| Joliet I-19 | 100 | WKBB | 1310 |
| | 100 | WJBC | 1200 |
| La Salle J-19 | 500 | WMBD C | 1440 |
| Peoria J-19 | 500 | WTAD | 1440 |
| Quincy K-18 | 500 | KFLV | 1410 |
| Rockford I-19 | 100 | WHBF | 1210 |
| Rock Island I-18 | 100 | WCBS | 1210 |
| Springfield K-19 | 100 | WTAX | 1210 |
| | 100 | WDX | 1070 |
| Tuscola K-20 | 250 | WILL | 890 |
| Urbana J-20 | 5000 | WCBD | 1080 |
| Zion I-20 | | | |

INDIANA

| | | | |
|-------------------|-------|--------|------|
| Anderson J-21 | 100 | WHBU | 1210 |
| Connorsville K-21 | 100 | WKBV | 1500 |
| Culver I-20 | 500 | WCMA | 1400 |
| Elkhart I-21 bc | 50 | WTRC | 1310 |
| Evansville L-20 | 500 | WGBF | 630 |
| Fort Wayne J-21 | 100 | WGL C | 1370 |
| | 10000 | WOWO C | 1160 |
| Gary I-20 | 1000 | WJKS | 1360 |
| Hammond I-20 bc | 100 | WWAE | 1200 |
| Indianapolis J-21 | 1000 | WFBM C | 1230 |
| | 500 | WKBF | 1400 |
| Lafayette J-20 | 500 | WBAA | 1400 |
| Muncie J-21 | 50 | WLBC | 1310 |
| South Bend I-20 | 100 | WFAM C | 1200 |
| | 500 | WSBT C | 1230 |
| Terre Haute K-20 | 100 | WBOW | 1310 |

IOWA

| | | | |
|---------------------|------|--------|------|
| Ames I-17 | 5000 | WOI | 640 |
| Boone I-17 | 100 | KFGQ | 1310 |
| Cedar Rapids I-18 | 100 | KWCR B | 1420 |
| Council Bluffs J-16 | 1000 | KOIL B | 1260 |
| Davenport I-18 | 5000 | WOC R | 1000 |
| Decorah H-18 | 100 | KGCA | 1270 |
| | 100 | KWLC | 1270 |
| Des Moines I-17 | 100 | KSO B | 1380 |
| | 5000 | WHO R | 1000 |
| Iowa City I-18 | 500 | WSUI | 880 |
| Marshalltown I-17 | 100 | KFJB | 1200 |
| Ottumwa J-17 | 100 | WIAS | 1310 |
| Red Oak J-16 | 100 | KICK | 1420 |
| Shenandoah J-16 | 500 | KFNF | 890 |
| | 500 | KMA | 930 |
| Sioux City I-15 | 1000 | KSCJ C | 1330 |
| Waterloo I-17 | 500 | WMT C | 600 |

KANSAS

| | Watts | | Kcys. |
|---------------------|-------|--------|-------|
| Abilene K-15 bl | 5000 | KFBI | 1060 |
| Coffeyville M-15 tr | 500 | KGGF | 1010 |
| Dodge City L-13 | 100 | KGNO | 1210 |
| Kansas City K-16 | 100 | WLBF | 1420 |
| Lawrence K-16 | 500 | KFKU | 1220 |
| | 1000 | WREN B | 1220 |
| Manhattan K-15 | 500 | KSAC | 580 |
| Topeka K-16 | 1000 | WIBW C | 580 |
| Wichita L-15 | 1000 | KFH C | 1300 |

KENTUCKY

| | | | |
|-------------------|-------|--------|------|
| Covington K-22 | 5000 | WCKY N | 1490 |
| Hopkinsville M-20 | 1000 | WFIW C | 940 |
| Louisville L-21 | 25000 | WHAS C | 820 |
| | 100 | WLAP | 1200 |
| Paducah M-19 | 100 | WPAD | 1420 |

LOUISIANA

| | | | |
|------------------|-------|--------|------|
| Monroe P-18 | 100 | KMLB | 1200 |
| New Orleans R-19 | 100 | WABZ | 1200 |
| | 1000 | WDSU C | 1250 |
| | 100 | WJBO | 1420 |
| | 100 | WJBW | 1200 |
| | 500 | WSMB N | 1320 |
| | 10000 | WWL | 850 |
| Shreveport P-17 | 100 | KRMD | 1310 |
| | 1000 | KTBS N | 1450 |
| | 100 | KWEA | 1210 |
| | 10000 | KWKH | 850 |

MAINE

| | | | |
|----------------------|------|--------|------|
| Augusta F-28 | 100 | WRDO | 1370 |
| Bangor F-29 | 100 | WABI | 1200 |
| | 500 | WLBS C | 620 |
| Portland F-28 | 1000 | WCSH R | 940 |
| Presque Isle D-29 lc | 100 | WAGM | 1420 |

MARYLAND

| | | | |
|--------------------|-------|--------|------|
| Baltimore J-26 | 10000 | WBAL B | 1060 |
| | 250 | WCAO C | 600 |
| | 100 | WCBM | 1370 |
| | 500 | WFBR R | 1270 |
| Cumberland J-25 | 100 | WTBO | 1420 |
| Hagerstown J-25 rc | 100 | WJEJ | 1210 |

MASSACHUSETTS

| | | | |
|------------------|-------|--------|------|
| Babson Park G-28 | 500 | WBSO | 920 |
| Boston G-28 | 500 | WAAB C | 1410 |
| | 25000 | WZB B | 990 |
| | 1000 | WEEI R | 890 |
| | 1000 | WHDH | 830 |
| | 100 | WLOE | 1500 |
| | 1000 | WNAC C | 1230 |
| Fall River H-28 | 250 | WSAR | 1450 |
| Lexington G-28 | 100 | WLBY | 1370 |
| New Bedford H-28 | 100 | WNBH | 1310 |
| Springfield H-27 | 1000 | WBZA B | 990 |
| | 100 | WMAS | 1420 |
| Worcester G-28 | 100 | WORC C | 1200 |
| | 250 | WTAG R | 580 |

MICHIGAN

| | | | |
|-------------------|-------|--------|------|
| Battle Creek I-21 | 50 | WELL | 1420 |
| Bay City H-22 | 500 | WBCM C | 1410 |
| Calumet E-19 | 100 | WHDF | 1370 |
| Detroit H-22 | 50 | WJBK | 1370 |
| | 10000 | WJR B | 750 |
| | 100 | WMBG | 1420 |
| | 1000 | W/J R | 920 |
| | 1000 | WX/Y Z | 1240 |
| East Lansing H-21 | 1000 | WKAR | 1040 |

INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

| | Watts | | Keys. |
|-------------------|-------|------|-------|
| Flint H-22 | 100 | WFDF | 1310 |
| Grand Rapids H-21 | 500 | WASH | 1270 |
| | 500 | WOOD | 1270 |
| Ironwood F-18 rc | 100 | WJMS | 1420 |
| Jackson I-21 | 100 | WIBM | 1370 |
| Kalamazoo I-21 tl | 1000 | WKZO | 590 |
| Lapeer H-22 | 100 | WMPC | 1500 |
| Ludington H-20 | 100 | WKBZ | 1500 |
| Marquette F-19 | 100 | WBEO | 1310 |
| Royal Oak H-22 | 50→ | WEXL | 1310 |

MINNESOTA

| | | | |
|-------------------|--------|------|--------|
| Fergus Falls F-15 | 100 | KGDE | 1200 |
| Minneapolis G-17 | 5000→ | WCCO | C 810 |
| | 1000→ | WDGY | 1180 |
| | 1000 | WLB | 1250 |
| | 1000→ | WRHM | 1250 |
| Moorhead F-15 | 100 | KGFK | 1500 |
| Northfield G-17 | 1000 | KFMX | 1250 |
| | 1000 | WCAL | 1250 |
| St. Paul G-17 | 10000→ | KSTP | N 1460 |

MISSISSIPPI

| | | | |
|-------------------|------|------|--------|
| Greenville O-18 | 100 | WKFI | 1210 |
| Gulfport Q-19 | 100 | WGCM | 1210 |
| Hattiesburg Q-19 | 100 | WPFB | 1370 |
| Jackson P-19 | 1000 | WJDX | N 1270 |
| Kosciusko O-19 bc | 100 | WHEF | 1500 |
| Laurel P-19 br | 100 | WTSL | 1310 |
| Meridian P-20 | 500 | WCOC | 880 |
| Wicksburg P-18 | 500→ | WQBC | 1360 |

MISSOURI

| | | | |
|---------------------|--------|------|--------|
| Cp. Girardeau L-19 | 100 | KFVS | 1210 |
| Columbia K-17 | 500 | KFRU | 630 |
| Grant City J-16 | 100 | KGIZ | 1500 |
| Jefferson City L-17 | 500 | WOS | 630 |
| Joplin M-16 | 1000→ | WMBH | 1420 |
| Kansas City K-16 | 1000 | KMBC | C 950 |
| | 100 | KWKC | 1370 |
| | 1000 | WDAF | R 610 |
| | 500 | WHB | 860 |
| | 1000→ | WQQ | 1300 |
| St. Joseph K-16 | 2500 | KFEQ | 680 |
| St. Louis L-18 | 500 | KFUO | 550 |
| | 100 | KFWF | 1200 |
| | 50000→ | KMOX | C 1090 |
| | 500 | KSD | R 550 |
| | 1000 | KWK | B 1350 |
| | 1000 | WEW | 760 |
| | 100 | WIL | 1200 |
| Springfield M-17 | 100 | KGBX | 1310 |

MONTANA

| | | | |
|-----------------|-------|------|--------|
| Billings F-9 | 1000→ | KGHL | N 950 |
| Butte F-7 | 500 | KGIR | N 1360 |
| Great Falls E-8 | 1000→ | KFBB | 1280 |
| Kalispell D-7 | 100 | KGEZ | 1310 |
| Missoula E-7 | 100 | KGVO | 1200 |
| Wolf Point E-11 | 100→ | KGCX | 1310 |

NEBRASKA

| | | | |
|-------------------|-------|------|-------|
| Clay Center J-14 | 1000 | KMMJ | 740 |
| Kearney J-14 bc | 100 | KGEW | 1310 |
| Lincoln J-15 | 5000→ | KFB | C 770 |
| | 100 | KFOR | 1210 |
| | 500 | WCAJ | 590 |
| Norfolk I-15 | 1000 | WJAG | 1060 |
| North Platte J-13 | 500 | KGNE | 1430 |
| Omaha J-15 | 500 | WAAW | 660 |
| | 1000→ | WOW | R 590 |
| Scottsbluff I-11 | 100 | KGKY | 1500 |
| York J-15 | 500 | KGBZ | 930 |

NEVADA

| | Watts | | Keys. |
|---------------|-------|------|--------|
| Las Vegas L-5 | 100→ | KGIX | 1420 |
| Reno I-3 | 500→ | KOH | C 1380 |

NEW HAMPSHIRE

| | | | |
|--------------------|-----|------|--------|
| Laconia G-28 lc | 100 | WKAV | 1310 |
| Manchester G-28 | 500 | WFEA | C 1430 |
| Portsmouth G-28 tc | 250 | WHEB | 740 |

NEW JERSEY

| | | | |
|--------------------|-------|------|--------|
| Asbury Park I-27 | 500 | WCAP | C 1280 |
| Atlantic City J-27 | 5000→ | WPG | C 1100 |
| Camden I-26 | 500 | WCAM | 1280 |
| Jersey City I-27 | 300 | WAAT | 940 |
| | 250 | WHOM | 1450 |
| Newark I-27 | 1000 | WAAM | 1250 |
| | 250 | WGCP | 1250 |
| | 5000 | WOR | 710 |
| Paterson I-27 | 1000 | WODA | 1250 |
| Red Bank I-27 | 100 | WJBI | 1210 |
| Trenton I-26 | 500 | WOAX | 1280 |
| Zarephath I-27 | 250 | WAWZ | 1350 |

NEW MEXICO

| | | | |
|-----------------|--------|------|------|
| Albuquerque N-7 | 250→ | KGGM | 1230 |
| | 20000→ | KOB | 1230 |
| Clovis O-11 tr | 100→ | KICA | 1370 |
| Santa Fe M-10 | 100 | KGFL | 1370 |

NEW YORK

| | | | |
|--------------------|--------|------|--------|
| Albany G-27 bl | 500→ | WOKO | C 1430 |
| Auburn H-25 | 100 | WMBO | 1310 |
| Binghamton H-26 | 100 | WNBF | 1500 |
| Brooklyn I-27 | 500 | WBBC | 1400 |
| | 1000→ | WBBR | 1300 |
| | 500 | WCGU | 1400 |
| | 500 | WFOX | 1400 |
| | 500 | WLTH | 1400 |
| | 100 | WMBQ | 1500 |
| | 100 | WMIL | 1500 |
| Buffalo H-24 | 1000 | WBEN | R 900 |
| | 100 | WEBR | 1310 |
| | 1000 | WGR | C 550 |
| | 5000 | KWBW | C 1480 |
| | 50 | WSVS | 1370 |
| | 500 | WCAD | 1220 |
| Canton F-26 | 50 | WGNV | 1210 |
| Chester Twp. | 1000 | WESG | 1040 |
| Elmira H-25 c | 100 | WGBB | 1210 |
| Freeport I-27 | 50 | WGLC | 1370 |
| Hudson Falls G-27 | 50 | WOCL | 1210 |
| Jamestown H-24 | 50000→ | WABC | C 860 |
| New York City I-27 | 250 | WBNX | 1350 |
| | 50000 | WBOQ | 860 |
| | 250 | WCDA | 1350 |
| | 50000→ | WEAF | R 660 |
| | 500 | WEVD | 1300 |
| | 1000 | WFAB | 1300 |
| | 500 | WINS | 1180 |
| | 250 | WHN | 1010 |
| | 30000→ | WJZ | B 760 |
| | 5000 | WLWL | 1100 |
| | 500 | WMCA | 570 |
| | 250 | WMSG | 1350 |
| | 500 | WNYC | 570 |
| | 1000 | WOV | 1130 |
| | 250 | WPAP | 1010 |
| | 500 | WPCH | 810 |
| | 250 | WQAO | 1010 |
| | 250 | WRNY | 1010 |
| Rochester G-25 | 5000→ | WHAM | B 1150 |
| | 500 | WHEC | C 1430 |

INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

| | Watts | | Kcys. |
|----------------------|-------|--------|-------|
| Saranac Lake F-26 | 50 | WMBZ | 1290 |
| Schenectady G-27 | 50000 | WGY R | 790 |
| Syracuse G-25 | 1000 | WFBL C | 1360 |
| | 250 | WMAC | 570 |
| | 250 | WSYR R | 570 |
| Troy G-27 | 500 | WHAZ | 1300 |
| Tupper Lake F-26 | 100 | WHDL | 1420 |
| Utica G-26 | 100 | WIBX | 1200 |
| Woodside I-27 | 100 | WVRL | 1500 |
| White Plains H-27 bl | 100 | WFAS | 1210 |

| | Watts | | Kcys. |
|--------------|-------|------|--------|
| Portland E-3 | 500 | KALE | C 1300 |
| | 5000 | KEX | N 1180 |
| | 100 | KBPS | 1420 |
| | 500 | KFJR | 1300 |
| | 1000 | KGW | N 620 |
| | 1000 | KOIN | C 940 |
| | 500 | KWJJ | 1060 |
| | 100 | KXL | 1420 |

NORTH CAROLINA

| | | | |
|--------------------|-------|------|--------|
| Asheville M-23 | 1000 | WWNC | N 570 |
| Charlotte M-24 | 25000 | WBT | C 1080 |
| Gastonia M-24 | 100 | WSOC | 1210 |
| Greensboro M-24 | 500 | WBIC | C 1440 |
| Raleigh M-25 | 1000 | WPTF | N 680 |
| Wilmington N-26 | 100 | WRAM | 1370 |
| Winston-Salem M-24 | 100 | WSJS | C 1310 |

NORTH DAKOTA

| | | | |
|------------------|------|------|-------|
| Bismarck F-13 | 1000 | KFYR | N 550 |
| Devils Lake E-14 | 100 | KDLR | 1210 |
| Fargo F-15 | 1000 | WDAY | N 940 |
| Grand Forks E-15 | 100 | KFJM | 1370 |
| Mandan F-13 | 250 | KGCU | 1240 |
| Minot E-13 | 250 | KLPM | 1240 |

OHIO

| | | | |
|-----------------|-------|------|--------|
| Akron I-23 | 1000 | WADC | C 1320 |
| | 100 | WJW | 1210 |
| Canton I-23 | 10 | WHBC | 1200 |
| Cincinnati K-22 | 100 | WBEE | 1200 |
| | 1000 | WKRC | C 550 |
| | 50000 | WLW | N 700 |
| | 500 | WSAI | R 1330 |
| Cleveland I-23 | 500 | WGAR | B 1450 |
| | 1000 | WHK | C 1390 |
| | 500 | WTAY | 610 |
| | 5000 | WTAM | R 1070 |
| Columbus J-22 | 500 | WATU | 640 |
| | 500 | WCAH | C 1430 |
| | 750 | WEAO | 570 |
| | 100 | WSEN | 1210 |
| Dayton J-22 | 100 | WSMK | 1380 |
| Mount Orab K-22 | 100 | WHBD | 1370 |
| Toledo I-22 | 1000 | WSPD | C 1340 |
| Youngstown I-23 | 500 | WKBN | C 570 |
| Zanesville J-23 | 100 | WALR | 1210 |

OKLAHOMA

| | | | |
|-----------------|------|------|--------|
| Chickasha N-14 | 250 | KOCW | 1400 |
| Elk City N-13 | 100 | KASA | 1210 |
| Enid M-14 | 100 | KCRC | 1370 |
| Norman N-15 | 500 | WNAD | 1010 |
| Oklahoma N-15 | 100 | KFXR | 1310 |
| | 100 | KGFG | 1370 |
| | 5000 | KOMA | C 1480 |
| | 1000 | WKY | N 900 |
| Ponca City M-15 | 100 | WBBZ | 1200 |
| Shawnee N-15 | 100 | KGFF | 1420 |
| Tulsa M-15 | 5000 | KVOO | N 1140 |

OREGON

| | | | |
|---------------------|------|------|------|
| Corvallis E-2 | 1000 | KOAC | 550 |
| Eugene F-2 | 100 | KORE | 1420 |
| Klamath Falls G-3 c | 100 | KFJI | 1210 |
| Marshfield F-1 | 100 | KOOS | 1370 |
| Medford G-2 | 100 | KMED | 1310 |

PENNSYLVANIA

| | | | |
|-------------------|-------|------|--------|
| Allentown I-26 | 250 | WCBA | 1440 |
| | 250 | WSAN | 1440 |
| Altoona I-25 | 100 | WFBG | 1310 |
| Carbondale H-26 | 10 | WNBW | 1200 |
| Erie H-24 | 500 | WLBW | C 1260 |
| Glenside I-26 rc | 25 | WIBG | 930 |
| Grove City I-24 | 100 | WSAJ | 1310 |
| Harrisburg I-25 | 500 | WBAK | 1430 |
| | 100 | WCOD | 1200 |
| | 500 | WHP | C 1430 |
| Hazleton I-26 lc | 100 | WAZL | 1420 |
| Johnstown J-24 | 100 | WJAC | 1310 |
| Lancaster I-26 | 100 | WGAL | 1310 |
| | 100 | WKJC | 1200 |
| Lewisburg I-26 | 100 | WJBU | 1210 |
| Philadelphia I-26 | 50000 | WCAU | C 1170 |
| | 100 | WDAS | 1370 |
| | 500 | WFAN | C 610 |
| | 500 | WFI | R 560 |
| | 100 | WHAT | 1310 |
| | 500 | WIP | C 610 |
| | 500 | WLIT | R 560 |
| | 100 | WPEN | 1500 |
| | 250 | WRAX | 1020 |
| | 100 | WTEL | 1310 |
| Pittsburgh J-24 | 50000 | KDKA | B 980 |
| | 500 | KQV | 1380 |
| | 1000 | WCAE | R 1220 |
| | 1000 | WJAS | C 1290 |
| | 100 | WWSW | 1500 |
| Reading I-26 | 1000 | WEEU | 830 |
| | 100 | WRWA | 1310 |
| Scranton H-26 | 250 | WGBI | 880 |
| | 250 | WQAN | 880 |
| Washington J-24 | 100 | WNBO | 1200 |
| Wilkes-Barre I-26 | 100 | WBAX | 1210 |
| | 100 | WBRE | 1310 |
| Williamsport I-25 | 100 | WRAC | 1370 |
| | 100 | WJEQ | 1370 |
| York J-25 tr | 1000 | WORX | 1000 |

PHILIPPINES

| | | | |
|--------|-------|------|-------|
| Cebu | 500 | KZRC | 937.5 |
| Manila | 1000 | KZKA | 1110 |
| | 50000 | KZRM | 618.5 |

PORTO RICO

| | | | |
|---------------|------|------|------|
| San Juan W-34 | 1000 | WKAQ | 1240 |
|---------------|------|------|------|

RHODE ISLAND

| | | | |
|-----------------|-----|------|-------|
| Providence H-28 | 250 | WEAN | C 780 |
| | 250 | WJAR | R 890 |
| | 100 | WPAW | 1210 |
| | 100 | WPRO | 1210 |

SOUTH CAROLINA

| | | | |
|------------------|-----|------|--------|
| Charleston O-25 | 500 | WCSC | 1360 |
| Columbia N-24 | 500 | WIS | N 1010 |
| Spartanburg N-23 | 100 | WSPA | 1420 |

INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

| SOUTH DAKOTA | | Watts | Keys. |
|------------------|------|-------|-------|
| Brookings H-15 | 500 | KFDY | 550 |
| Huron H-14 | 100 | KGDA | 1200 |
| Mitchell H-14 | 100 | KGDA | 1370 |
| Pierre G-13 | 200 | KGFX | 630 |
| Rapid City H-12 | 100 | WCAT | 1200 |
| Sioux Falls H-15 | 1000 | KSOO | 1110 |
| Vermillion I-15 | 500 | KUSD | 890 |
| Watertown G-15 | 100 | KGCR | 1210 |
| Yankton I-15 | 1000 | WNAX | C 570 |

| TENNESSEE | | Watts | Keys. |
|------------------|-------|-------|--------|
| Bristol L-23 | 100 | WOPI | 1500 |
| Chattanooga N-21 | 1000 | WDOD | C 1280 |
| Jackson M-19 br | 100 | WTJS | 1310 |
| Knoxville M-22 | 50 | WFBC | 1200 |
| | 1000 | WNOX | C 560 |
| | 100 | WROL | 1310 |
| Memphis N-19 | 100 | WHBQ | 1370 |
| | 500 | WMC | N 780 |
| | 500 | WNBR | 1430 |
| | 500 | WREC | C 600 |
| Nashville M-21 | 5000 | WLAC | 1470 |
| | 50000 | WSM | C 650 |
| Springfield M-20 | 100 | WSIX | 1210 |

| TEXAS | | Watts | Keys. |
|---------------------|-------|-------|--------|
| Amarillo N-12 | 1000 | KGRS | 1410 |
| | 1000 | WDAG | 1410 |
| Austin Q-14 | 100 | KNOW | 1500 |
| Beaumont R-17 | 500 | KFDM | 560 |
| Brownsville U-15 | 500 | KWWG | 1260 |
| College Sta. Q-15 | 500 | WTAW | 1120 |
| Corpus Christi S-14 | 100 | KGFI | 1500 |
| Dallas P-15 | 10000 | KRLD | 1040 |
| | 50000 | WFAA | C 800 |
| | 500 | WRR | C 1280 |
| Dublin P-14 | 100 | KFPL | 1310 |
| El Paso P-9 | 100 | KTSM | 1310 |
| | 100 | WDAH | 1310 |
| Fort Worth P-15 | 100 | KFJZ | 1370 |
| | 1000 | KTAT | 1240 |
| | 50000 | WBAP | N 800 |
| Galveston R-16 | 100 | KFLX | 1370 |
| | 100 | KFUL | 1290 |
| Greenville O-15 | 15 | KFPM | 1310 |
| Harlingen T-14 | 500 | KRGV | 1260 |
| Houston R-16 | 1000 | KPRC | N 920 |
| | 500 | KTRH | C 1120 |
| | 500 | KXYZ | 1440 |
| Lubbock O-12 tr | 100 | KFYO | 1310 |
| San Angelo Q-13 | 100 | KGKL | 1370 |
| San Antonio R-14 | 100 | KABC | 1420 |
| | 100 | KMAC | 1370 |
| | 100 | KONO | 1370 |
| | 1000 | KTSA | C 1290 |
| | 50000 | WOAI | N 1190 |
| Tyler P-16 rc | 100 | KGKB | 1500 |
| Waco Q-15 | 1000 | WACO | C 1240 |
| Wichita Falls O-14 | 250 | KGKO | 570 |

| UTAH | | Watts | Keys. |
|--------------------|-------|-------|--------|
| Ogden I-7 | 500 | KLO | 1400 |
| Salt Lake City I-7 | 1000 | KDYL | N 1290 |
| | 50000 | KSL | C 1130 |

| VERMONT | | Watts | Keys. |
|------------------|-----|-------|-------|
| Burlington F-27 | 100 | WCAX | 1200 |
| Rutland G-27 | 100 | WSYB | 1500 |
| St. Albans F-27 | 100 | WQDM | 1370 |
| Springfield G-27 | 250 | WNBX | 1260 |
| Waterbury F-27 c | 500 | WDEV | 550 |

| VIRGINIA | | Watts | Keys. |
|--------------------|------|-------|--------|
| Arlington J-25 | 1000 | NAA | 690 |
| Danville L-25 | 100 | WBTM | 1370 |
| Emory L-23 | 500 | WEHC | 1350 |
| Lynchburg L-25 | 100 | WLVA | 1370 |
| Newport News L-26 | 100 | WGH | 1310 |
| Norfolk L-26 | 500 | WPAR | C 780 |
| Petersburg L-26 | 100 | WPFR | 1200 |
| Portsmouth L-26 to | 500 | WPOR | 780 |
| Richmond K-26 | 100 | WBBL | 1210 |
| | 100 | WMBG | C 1210 |
| | 3000 | WRVA | N 1110 |
| Roanoke L-24 | 250 | WDEJ | C 930 |
| | 250 | WRBX | 1410 |

| WASHINGTON | | Watts | Keys. |
|-----------------|------|-------|--------|
| Aberdeen D-2 | 100 | KXRO | 1310 |
| Bellingham C-3 | 100 | KVOS | 1200 |
| Everett C-3 | 50 | KFBL | 1370 |
| Olympia D-3 tl | 100 | KGY | 1210 |
| Pullman E-5 | 1000 | KWSC | 1220 |
| Seattle C-3 | 3000 | KJR | N 970 |
| | 1000 | KOL | C 1270 |
| | 1000 | KOMO | N 920 |
| | 100 | KPCB | 650 |
| | 100 | KRSC | 1120 |
| | 1000 | KTW | 1220 |
| | 100 | KVL | 1370 |
| | 250 | KXA | 760 |
| Spokane D-5 | 100 | KFIO | 1120 |
| | 1000 | KFPY | C 1340 |
| | 5000 | KGA | B 1470 |
| | 1000 | KHQ | N 590 |
| Tacoma D-3 | 250 | KMO | 1330 |
| | 500 | KVI | C 570 |
| Walla Walla E-5 | 100 | KUJ | 1370 |
| Wenatchee D-4 | 100 | KPQ | 1500 |
| Yakima D-4 | 100 | KIT | 1310 |

| WEST VIRGINIA | | Watts | Keys. |
|-----------------|------|-------|--------|
| Bluefield L-24 | 250 | WHIS | 1410 |
| Charleston K-23 | 250 | WOBU | 580 |
| Fairmont J-24 | 250 | WMMN | 890 |
| Huntington K-23 | 250 | WSAZ | 580 |
| Wheeling J-24 | 5000 | WWVA | C 1160 |

| WISCONSIN | | Watts | Keys. |
|--------------------|------|-------|--------|
| Eau Claire G-18 | 1000 | WTAQ | C 1330 |
| Fond du Lac H-19 | 100 | KFIZ | 1420 |
| Green Bay G-19 | 100 | WBHY | 1200 |
| Janesville I-19 | 100 | WCLO | 1200 |
| La Crosse H-18 | 1000 | WKBH | C 1380 |
| Madison H-19 | 1000 | WHA | 940 |
| | 500 | WIBA | N 1280 |
| Manitowoc H-20 | 100 | WOMT | 1210 |
| Milwaukee H-19 | 250 | WHAD | C 1120 |
| | 250 | WISN | C 1120 |
| | 1000 | WTMJ | N 620 |
| Poynette H-19 | 100 | WIBU | 1210 |
| Racine I-20 | 100 | WRJN | 1370 |
| Sheboygan H-20 | 500 | WHBL | 1410 |
| Stevens Point G-19 | 2000 | WLBL | 900 |
| Superior F-17 | 1000 | WBCB | N 1290 |

| WYOMING | | Watts | Keys. |
|-------------|-----|-------|-------|
| Casper H-10 | 500 | KDFN | 1440 |

CANADA

| ALBERTA | | Watts | Keys. |
|-------------|-------|-------|-------|
| Calgary B-7 | 500 | CFAC | 690 |
| | 10000 | CFCN | 985 |
| | 500 | CJ CJ | 690 |

INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N.

| | Watts | | Kcys. |
|----------------|-------|------|-------|
| Edmonton A-8 | 250 | CHMA | 580 |
| | 500 | CJCA | 745 |
| | 500 | CKUA | 580 |
| Lethbridge C-8 | 100 | CJOC | 1120 |
| Red Deer A-8 | 1000 | CKLC | 840 |

BRITISH COLUMBIA

| | | | |
|----------------|-----|-------|------|
| Chilliwack B-3 | 100 | CHWK | 665 |
| Kamloops B-5 | 100 | CJFC | 1120 |
| Kelowna C-6 tl | 100 | CKOV | 1200 |
| Trail C-6 c | 25 | 10-AT | 1155 |
| Vancouver B-3 | 100 | CHLS | 730 |
| | 500 | CJOR | 1210 |
| | 100 | CKCD | 730 |
| | 50 | CKFC | 730 |
| | 100 | CKMO | 730 |
| | 100 | CKWX | 730 |
| | 500 | CNRV | 1030 |
| | 500 | CFCT | 630 |

Victoria C-3

MANITOBA

| | | | |
|---------------|------|-----|-----|
| Brandon D-14 | 500 | CKX | 930 |
| Winnipeg D-15 | 5000 | CKY | 780 |

NEW BRUNSWICK

| | | | |
|------------------|-----|------|------|
| Fredericton D-29 | 100 | CFNB | 1210 |
| Moncton D-30 | 700 | CNRA | 630 |
| St. John D-30 | 500 | CFBO | 890 |

NOVA SCOTIA

| | | | |
|----------------|------|------|------|
| Glace Bay C-32 | 2000 | VAS | 685 |
| Halifax E-31 | 500 | CHNS | 815 |
| | 500 | CNRH | 815 |
| Sydney C-32 | 100 | CJCB | 880 |
| Wolfville D-31 | 50 | CKIC | 1010 |

ONTARIO

| | | | |
|------------------------|-------|-------|-------|
| Brantford H-23 tr | 15 | 10-BQ | 1200 |
| Chatham H-22 | 250 | CFCO | 1010 |
| Cobalt E-23 | 100 | CKMC | 1210 |
| Ft. William E-19 bl | 100 | CKPR | 890 |
| Hamilton H-24 | 50 | CHML | 880 |
| | 1000 | CKOC | 635 |
| Kingston G-25 | 50 | CFRC | 930 |
| London H-23 | 5000 | CJGC | 595 |
| North Bay F-23 c | 100 | CFCH | 930 |
| Ottawa F-25 | 100 | CKCO | 890 |
| | 500 | CNRO | 600 |
| Prescott F-25 | 100 | CFLC | 915 |
| Preston H-23 | 100 | CKPC | 880 |
| St. Catharines H-24 tl | 1000 | CKTB | 635 |
| Stratford H-23 tc | 15 | 10-AK | 1200 |
| Toronto G-24 | 500 | CFCA | 1120 |
| | 10000 | CFRB | C 690 |
| | 5000 | CHNC | 840 |
| | 500 | CKCL | 580 |
| | 5000 | CKGW | N 840 |
| | 500 | CKNC | 960 |
| | 5000 | CPRY | 840 |
| | 100 | CKCR | 645 |
| | 5000 | CKOK | C 540 |
| | 25 | 10-BP | 1199 |

| | | | |
|-----------------|------|-------|-------|
| Waterloo G-23 | 100 | CKCR | 645 |
| Windsor I-22 tc | 5000 | CKOK | C 540 |
| Wingham G-23 | 25 | 10-BP | 1199 |

PRINCE EDWARD ISLAND

| | | | |
|--------------------|-----|------|------|
| Charlottetown C-31 | 500 | CFCY | 580 |
| | 100 | CHCK | 960 |
| Summerside C-31 | 100 | CHGS | 1120 |

QUEBEC

| | | | |
|---------------|------|------|--------|
| Montreal E-26 | 500 | CFCF | N 1030 |
| | 100 | CHCH | 1200 |
| | 100 | CHLP | 1200 |
| | 5000 | CHYC | 730 |
| | 5000 | CKAC | C 730 |

| | Watts | | Kcys. |
|-------------|-------|------|-------|
| Quebec D-27 | 100 | CHRC | 645 |
| | 180 | CKCI | 645 |
| | 100 | CKCV | 880 |

SASKATCHEWAN

| | | | |
|-----------------------|------|-------|------|
| Canora B-13 tl | 15 | 10-BU | 1200 |
| Fleming C-13 | 1000 | CJRW | 665 |
| Moose Jaw C-11 | 500 | CJRM | 665 |
| | 25 | 10-AB | 1200 |
| Prince Albert A-11 rc | 25 | 10-BI | 1200 |
| Regina C-12 | 500 | CHWC | 960 |
| | 500 | CKCK | 960 |
| Saskatoon B-11 | 500 | CFQC | 910 |
| Yorkton B-13 | 500 | CJGX | 630 |

NEWFOUNDLAND

| | | | |
|----------------|-----|------|------|
| St. Johns A-35 | 200 | VOAS | 810 |
| | 500 | VOGY | 860 |
| | 100 | VONA | 950 |
| | 500 | VONF | 1115 |
| | 750 | VOWR | 750 |
| | 400 | VOGT | 893 |

Wabana A-35

CENTRAL AMERICA

COSTA RICA

| | | | |
|----------------|----|------|-----|
| San Jose FF-23 | 50 | TICR | 911 |
|----------------|----|------|-----|

GUATAMALA

| | | | |
|--------------------|----|-----|-----|
| Guatamala CC-18 tr | 50 | TGW | 570 |
|--------------------|----|-----|-----|

SALVADOR

| | | | |
|-------------------|-----|-----|-----|
| Salvador CC-19 br | 500 | RUS | 664 |
|-------------------|-----|-----|-----|

MEXICO

AGUASCALIENTES

| | | | |
|------------------------|-----|-----|-----|
| Aguascalientes W-11 bc | 350 | XFC | 805 |
|------------------------|-----|-----|-----|

BAJA CALIFORNIA

| | | | |
|-----------------|-----|------|------|
| Tiajuana N-3 bc | 300 | XEFD | 1020 |
|-----------------|-----|------|------|

CHIHUAHUA

| | | | |
|---------------|-----|------|------|
| Chihuahua R-9 | 100 | XEFI | 1000 |
| | 250 | XFF | 915 |
| Juarez P-9 | 500 | XEBN | 750 |
| | 50 | XEFV | 1370 |
| | 100 | XEJ | 1000 |

COAHUILA

| | | | |
|----------------------|-------|---------|------|
| Piedras Negras S-12 | 10000 | XEPN | 885 |
| Saltillo, Coah. U-12 | 10 | XEL | 1000 |
| Torreón U-11 tl | 125 | XETB | 1380 |
| Villa Acuna R-12 c | 75000 | XER-XEF | 735 |

D. F.

| | | | |
|------------------|------|------|------|
| Coyoacan Y-13 | 100 | XEFZ | 1500 |
| Mexico City Y-13 | 1000 | XEB | 1030 |
| | 500 | XEFA | 1250 |
| | 250 | XEFH | 1360 |
| | 250 | XEG | 1075 |
| | 100 | XEK | 990 |
| | 1000 | XEN | 711 |
| | 5800 | XEFO | 940 |
| | 1000 | XEP | 780 |
| | 250 | XETA | 1140 |
| | 1000 | XETR | 610 |
| | 500 | XETW | 830 |
| | 5000 | XEW | 910 |
| | 500 | XEX | 1210 |
| | 2000 | XFG | 638 |
| | 1000 | XFI | 818 |
| | 5000 | XFO | 940 |
| | 50 | XFX | 860 |
| Toluca Y-12 | 50 | XEC | 1000 |

INDEX BY LOCATIONS WITH MAP KEY

| | Watts | | Keys. | | Watts | | Keys. |
|-----------------------|--------|------|-------|---------------------------|-------|-------|-------|
| HIDALGO | | | | | | | |
| Pachuca Y-13 rc | 100 | XETU | 890 | Guantanamo X-28 tc | 20 | CMKJ | 1300 |
| JALISCO | | | | Havana W-23 | 1000 | CMAF | 680 |
| Guadalajara, Ja. X-10 | 100 | XEA | 1000 | | 150 | CMAY | 965 |
| | 500 | XED | 1155 | | 150 | CMBC | 1270 |
| MICHOACAN | | | | | 150 | CMBD | 965 |
| Morelia, Mich. Y-12 | 125 | XEI | 1310 | | 150 | CMBF | 1325 |
| NEUVO LEON | | | | | 225 | CMBG | 1070 |
| Monterrey, N. L. U-13 | 100 | XEFB | 1315 | | 150 | CMBJ | 1140 |
| | 100 | XEFJ | 1000 | | 15 | CMBK | 1485 |
| | 250 | XEH | 1132 | | 20 | CMBL | 1444 |
| | 500 | XET | 690 | | 30 | CMBN | 1444 |
| PUEBLA | | | | | 40 | CMBR | 1500 |
| Puebla Z-13 | 100 | XETH | 840 | | 150 | CMBS | 780 |
| QUERETARO | | | | | 150 | CMBW | 925 |
| Queretaro X-12 br | 40 | XEFS | 1000 | | 350 | CMBY | 1235 |
| TAMAULIPAS | | | | | 150 | CMBZ | 1010 |
| Matamoros U-14 tr | 150000 | XETM | 845 | | 500 | CMC | 840 |
| N. Laredo S-13 | 100 | XEFE | 1000 | | 150 | CMCA | 1235 |
| | 150000 | XENT | 1115 | | 150 | CMCB | 1070 |
| Reynosa, Tams. T-14 | 10000 | XEAW | 965 | | 250 | CMCD | 1140 |
| Tampico, Tams. W-14 | 70 | XEFW | 1240 | | 250 | CMCF | 890 |
| | 250 | XES | 1055 | | 50 | CMCH | 1395 |
| VERA CRUZ | | | | | 250 | CMCJ | 1185 |
| Jalapa Y-14 | 100 | XETC | 1000 | | 15 | CMCM | 1395 |
| | 500 | XFB | 840 | | 250 | CMCN | 925 |
| Vera Cruz, Ver. Z-14 | 500 | XETF | 630 | | 1000 | CMCQ | 780 |
| | 100 | XEU | 1010 | | 150 | CMCR | 1375 |
| YUCATAN | | | | | 150 | CMCU | 630 |
| Merida, Yuc. X-19 | 10 | XEFC | 1050 | | 150 | CMCW | 965 |
| | 105 | XEY | 546.8 | | 150 | CMCX | 1010 |
| WEST INDIES | | | | | 1000 | CMCY | 1325 |
| CUBA | | | | | 40 | CMDB | 1395 |
| Caibarien W-25 | 250 | CMHD | 950 | | 150 | CMDD | 588 |
| Camaguey W-26 | 150 | CMJC | 1382 | | 250 | CMDE | 925 |
| | 50 | CMJE | 1175 | | 3150 | CMK | 730 |
| | 200 | CMJF | 930 | | 250 | CMQ | 630 |
| | 50 | CMJG | 1050 | | 1400 | CMW | 585 |
| | 300 | CMJK | 790 | | 500 | CMX | 890 |
| | 50 | CMJL | 960 | Matanzas W-24 | 30 | CMGB | 1205 |
| | 50 | CMJN | 1270 | | 30 | CMGC | 820 |
| Cardenas W-24 | 30 | CMGE | 1375 | | 100 | CMGF | 987 |
| Ciego de Avila W-26 | 50 | CMJH | 1150 | | 15 | CMGH | 1040 |
| | 5 | CMJI | 1260 | Moron | 7.5 | CMJP | 1319 |
| | 15 | CMJO | 1110 | Pinar del Rio W-22 | 20 | CMAB | 1249 |
| | 40 | CMJH | 1125 | Santa Clara W-25 | 30 | CMHI | 1030 |
| | 20 | CMHL | 1290 | Santiago X-28 | 150 | CMKC | 1034 |
| Cienfuegos W-25 | 40 | CMJH | 1125 | Tuinucu W-25 rc | 250 | CMHC | 790 |
| | 20 | CMHL | 1290 | DOMINICAN REPUBLIC | | | |
| Colon W-24 | 100 | CMGA | 834 | Santo Domingo X-31 | 1000 | HIX | 630 |
| Cruces | 15 | CMHK | 1225 | HAITI | | | |
| | | | | Port au Prince X-30 | 1000 | HHK | 920 |
| | | | | SOUTH AMERICA | | | |
| | | | | Caracas Venez. DD-31 | 5000 | YVIBC | 960 |

Map Key: For locating cities not shown on the RADEX Map of North America, use the small letters following the square in which that city is located thus: tl top left, tc top center, tr top right, bl bottom left, bc bottom center, br bottom right, l left, c center, r right.

TIME CONVERSION TABLE

| | 1:00 | 2:00 | 3:00 | 4:00 | 5:00 | 6:00 | 7:00 | 8:00 | 9:00 | 10:00 | 11:00 | 12:00 |
|----------|-------|-------|-------|-------|------|------|------|------|------|-------|-------|-------|
| Atlantic | | | | | | | | | | | | |
| Eastern | 12:00 | 1:00 | 2:00 | 3:00 | 4:00 | 5:00 | 6:00 | 7:00 | 8:00 | 9:00 | 10:00 | 11:00 |
| Central | 11:00 | 12:00 | 1:00 | 2:00 | 3:00 | 4:00 | 5:00 | 6:00 | 7:00 | 8:00 | 9:00 | 10:00 |
| Mountain | 10:00 | 11:00 | 12:00 | 1:00 | 2:00 | 3:00 | 4:00 | 5:00 | 6:00 | 7:00 | 8:00 | 9:00 |
| Pacific | 9:00 | 10:00 | 11:00 | 12:00 | 1:00 | 2:00 | 3:00 | 4:00 | 5:00 | 6:00 | 7:00 | 8:00 |

| | | | | | |
|-------------|--|-------------|---|-------------|--|
| CFAC | 690 Calgary, Alta., <i>MST</i> . 7:30-9 a.m.; 11:30 a.m.-1:30 p.m.; 4:30-6 p.m. | CKCD | 730 Vancouver, B. C. | CMCH | 1395 Havana, Cuba, <i>EST</i> . 5-9 p.m. |
| CFBO | 890 St. John, N. B. | CKCI | 645 Quebec, Que., <i>EST</i> . 1-1:30 p.m. | CMCJ | 1185 Havana, Cuba. |
| CFCA | 1120 Toronto, Ont., <i>EST</i> . 7:15-noon; 1 p.m.-mid. | CKCK | 960 Regina, Sask., <i>MST</i> . 9-10 a.m.; 11 a.m.-noon; 1-3:30; 5:30-mid. | CMCM | 1395 Havana, Cuba. |
| CFCH | 1030 Montreal, Que., <i>EST</i> . 8 a.m.-mid. | CKCL | 680 Toronto, Ont., <i>EST</i> . 8:30 a.m.-mid. | CMCN | 925 Havana, Cuba. |
| CFCH | 930 North Bay, Ont., <i>EST</i> . 8-8:30 a.m.; noon-1 p.m.; 5-8 | CKCO | 890 Ottawa, Ont. | CMCQ | 780 Havana, Cuba. |
| CFCN | 985 Calgary, Alta., <i>MST</i> . 7:30 a.m.-1:30 p.m.; 5 p.m.-mid. | CKCR | 645 Waterloo, Ont., <i>EST</i> . 10 a.m.-1:15 p.m.; 4-10 p.m. | CMCR | 1375 Havana, Cuba. |
| CFCO | 1010 Chatham, Ont., <i>EST</i> . 7:15-7:30 p.m.; 9:45-11 p.m. | CKCV | 880 Quebec, Que., <i>EST</i> . Noon-2 p.m.; 6:30-11 p.m. | CMCJ | 630 Havana, Cuba. |
| CFCT | 630 Victoria, B. C., <i>PST</i> . 8:30 a.m.-12:30 p.m.; 6-8 p.m.; 10-11 p.m. | CKFC | 730 Vancouver, B. C. Silent. | CMCW | 965 Havana, Cuba, <i>EST</i> . 1-3 a.m.; 11 a.m.-6 p.m. |
| CFCY | 580 Charlottetown, P. E. I. <i>AST</i> . 11:30 a.m.-noon; 4:30-8 p.m. | CKGW | 840 Toronto, Ont., <i>EST</i> . 6:45 a.m.-mid. | CMCX | 1010 Havana, Cuba. |
| CFJC | 1120 Kamloops, B. C., <i>PST</i> . 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.; mid-2 a.m. | CKIC | 1010 Wolfville, N. S., <i>AST</i> . 7:30-8:30 a.m.; 12:15-1:15 p.m.; 6-7 p.m. | CMCY | 1275 Havana, Cuba, <i>EST</i> . 8:30-10:30 p.m. |
| CFLC | 915 Prescott, Ont., <i>EST</i> . 8-10 a.m.; noon-2 p.m.; 5-7:30 p.m.; 8-10 p.m. | CKIK | 840 Red Deer, Alta., <i>MST</i> . 8 a.m.-8 p.m. | CMDB | 1395 Havana, Cuba. |
| CFNB | 1270 Fredericton, N. B., <i>AST</i> . 8:30-9:30 a.m.; 12:30-2 p.m. | CKKC | 1210 Cobalt, Ont., <i>EST</i> . 7-8 p.m. | CMDD | 588 Havana, Cuba. |
| CFQC | 910 Saskatoon, Sask. | CKMC | 730 Vancouver, B. C. | CMDE | 925 Havana, Cuba. |
| CFRB | 690 Toronto, Ont., <i>EST</i> . 8 a.m.-mid. | CKMO | 960 Toronto, Ont., <i>EST</i> . 8 a.m.-12:30 p.m.; 2:30-11:15. | CMDF | 834 Colon, Cuba. |
| CFRC | 930 Kingston, Ont. | CKNC | 635 Hamilton, Ont., <i>EST</i> . 8 a.m.-10:30 p.m. | CMGA | 1205 Matanzas, Cuba. |
| CHCH | 1200 Montreal, Que. | CKOC | 540 Windsor, Ont., <i>EST</i> . 7:30 a.m.-mid. | CMGE | 820 Matanzas, Cuba. |
| CHCK | 960 Charlottetown, P. E. I. <i>AST</i> . Noon-2 p.m.; 5-7:30 p.m., <i>AST</i> . | CKOK | 1200 Kelowna, B. C., <i>PST</i> . 8-9 a.m.; 11:30 a.m.-2 p.m.; 4:30-7:30 p.m. | CMGG | 1375 Cardenas, Cuba, <i>EST</i> . noon-2; 8-10 p.m. |
| CHGS | 1120 Summerside, P. E. I. <i>AST</i> . 6:30 a.m.-2 p.m.; 4-8 p.m., <i>AST</i> . | CKOV | 880 Preston, Ont., <i>EST</i> . 10 a.m.-2 p.m. | CMGF | 987 Matanzas, Cuba. |
| CHLP | 1200 Montreal, Que. | CKPR | 890 Ft. William, Ont., <i>EST</i> . 9 a.m.-2 p.m.; 5:30-11 p.m. | CMGH | 1040 Matanzas, Cuba. |
| CHLS | 730 Vancouver, B. C., <i>PST</i> . 8:50-9 p.m. | CKQB | 635 St. Catharines, Ont., 1:30-5 p.m.; 6:30-8 p.m., <i>EST</i> . | CMHG | 790 Tuinucu, Cuba. |
| CHMA | 580 Edmonton, Alta., <i>MST</i> . Silent. | CKUA | 580 Edmonton, Alta., <i>MST</i> . 4-9 p.m. | CMHD | 950 Caibarien, Cuba. |
| CHML | 880 Hamilton, Ont., <i>EST</i> . 3-11 p.m. | CKWX | 730 Vancouver, B. C., <i>PST</i> . 8-8:30 a.m.; 10:30 a.m.-noon; 4:30-8:30 p.m.; 9-10:30 p.m. | CMHE | 1030 Santa Clara, Cuba, <i>EST</i> . 11 a.m.-1 p.m.; 8-10 p.m. |
| CHNC | 840 Toronto, Ont. 7:15-7:30 p.m. | CKX | 930 Brandon, Man., <i>CST</i> . 8:30-9:30 a.m.; 7:45-10 p.m. | CMHJ | 1125 Cienfuegos, Cuba, <i>EST</i> . 11 a.m.-1 p.m.; 7-9 p.m. |
| CHNS | 815 Halifax, N. S., <i>AST</i> . 8 a.m.-4 p.m.; 6 p.m.-mid. | CKY | 780 Winnipeg, Man., <i>CST</i> . 8:30 a.m.-2:15; 3:30-10:45 p.m. | CMHK | 1225 Cruces, Cuba. |
| CHRC | 645 Quebec, Que., <i>EST</i> . 9 a.m.-2 p.m.; 5 p.m.-mid. | CMAB | 1249 Pinar del Rio, Cuba. | CMHL | 1290 Cienfuegos, Cuba. |
| CHWC | 960 Regina, Sask., <i>MST</i> . 7-9 a.m.; 10-11 a.m.; noon-1 p.m.; 3:30-6:30 p.m. | CMAF | 680 Havana, Cuba, <i>EST</i> . 5-11:30 p.m. | CMJM | 1382 Camaguey, Cuba. |
| CHWK | 685 Chilliwack, B. C., <i>PST</i> . Noon-8 p.m. | CMAY | 965 Havana, Cuba. | CMJE | 1175 Camaguey, Cuba. |
| CHYC | 730 Montreal, Que. | CMBC | 1270 Havana, Cuba, <i>EST</i> . 4 a.m.-11 p.m. | CMJF | 930 Camaguey, Cuba. |
| CHJA | 745 Edmonton, Alta., <i>MST</i> . 7:45-9:30 a.m.; noon-1 p.m.; 3:30-4:30 p.m.; 5-10 p.m. | CMBD | 965 Havana, Cuba. | CMJG | 1050 Camaguey, Cuba. |
| CJCB | 880 Sydney, N. S., <i>AST</i> . 10 a.m.-2 p.m.; 6-10 p.m. | CMBF | 1325 Havana, Cuba. | CMJH | 1150 Ciego de Avila, Cuba. 10 a.m.-2 p.m.; 5-10 p.m., <i>EST</i> . |
| CJCC | 690 Calgary, Alberta, <i>MST</i> . 9-11:30 a.m.; 1:45-3 p.m.; 6-8. | CMBG | 1070 Havana, Cuba. | CMJI | 1260 Ciego de Avila, Cuba. 10 a.m.-1:30 p.m.; 6-10, <i>EST</i> . |
| CJCG | 595 London, Ont., <i>EST</i> . 8:45 a.m.-1:15 p.m.; 5:30-10. | CMBJ | 1140 Havana, Cuba. | CMJK | 790 Camaguey, Cuba. |
| CJGX | 630 Yorkton, Sask., <i>CST</i> . 8:30-9:15 a.m.; 10:30-10:45 a.m.; 12:40-1:45 p.m.; 8:45-8 p.m. | CMBK | 1485 Havana, Cuba. | CMJL | 960 Camaguey, Cuba. |
| CJOC | 1120 Lethbridge, Alta., <i>MST</i> . 8:45-10 a.m.; noon-1:15 p.m.; 3-4 p.m.; 6-8 p.m. | CMBL | 1444 Havana, Cuba, <i>EST</i> . 7-9 p.m. | CMJM | 1270 Camaguey, Cuba. |
| CJOR | 1210 Vancouver, B. C., <i>PST</i> . 7:30 a.m.-1 p.m.; 4-11:30 p.m. | CMBN | 1444 Havana, Cuba, <i>EST</i> . 2-3 p.m. | CMJO | 1110 Ciego de Avila, Cuba. |
| CJRM | 685 Moose Jaw, Sask., <i>MST</i> . 10:30 a.m.; noon-2:30 p.m.; 9-10:30 p.m. | CMBR | 1500 Havana, Cuba. | CMJP | 1310 Moron, Cuba. |
| CJRW | 685 Fleming, Sask., <i>MST</i> . Noon-1 p.m.; 4:30-7:30 p.m. | CMBS | 780 Havana, Cuba. | CMK | 730 Havana, Cuba, <i>EST</i> . 10 a.m.-noon; 6 p.m.-mid. |
| CKAC | 730 Montreal, Que., <i>EST</i> . 7:30 a.m.-mid. | CMBW | 925 Havana, Cuba. | CMKC | 1034 Santiago, Cuba. |
| | | CMBY | 1235 Havana, Cuba. | CMKJ | 1300 Guantánamo, Cuba. |
| | | CMCZ | 1010 Havana, Cuba, <i>EST</i> . 9-10:30 a.m.; noon-2 p.m.; 4-5 p.m.; 6-7 p.m.; 8-11 p.m. | CMKQ | 630 Havana, Cuba. |
| | | CMC | 840 Havana, Cuba. | CMW | 585 Havana, Cuba, <i>EST</i> . 7:30 a.m.-1:30 p.m. |
| | | CMCA | 1235 Havana, Cuba. | CMX | 890 Havana, Cuba, <i>EST</i> . 11 a.m.-2 p.m.; 7-11 p.m. |
| | | CMCB | 1070 Havana, Cuba, <i>EST</i> . 11:30 a.m.-1 p.m.; 5-6 p.m.; 7-10:30 p.m. | CNRA | 630 Moncton, N. B., <i>AST</i> . 12:30-2 p.m.; 6:15-7:15 p.m.; 8:30-10 p.m. |
| | | CMCD | 1140 Havana, Cuba, <i>EST</i> . Noon-3 p.m.; 8 p.m.-mid. | CNRH | 815 Halifax, N. S., <i>AST</i> . Silent. |
| | | CMCF | 890 Havana, Cuba, <i>EST</i> . 5-8 p.m.; 9-11 p.m. | CNRO | 600 Ottawa, Ont., <i>EST</i> . Noon-1 p.m.; 6-11 p.m. |
| | | | | CNRV | 1030 Vancouver, B. C., <i>PST</i> . 2-3:30 p.m.; 5:30-8:30 p.m. |
| | | | | CPRY | 840 Toronto, Ont., <i>EST</i> . 1-1:30 p.m.; 10-10:30 p.m. |
| | | | | HKH | 920 Port-au-Prince, Haiti. |
| | | | | HIX | 630 Santo Domingo, <i>EST</i> . 8:25-9:40 p.m. |
| | | | | KABC | 1420 San Antonio, Tex., <i>CST</i> . 6:45 a.m.-1:30 p.m.; 4-11:30 p.m. |
| | | | | KALE | 1300 Portland, Ore., <i>PST</i> . 7-10:30 a.m.; 2:30-5; 6-7 p.m. |
| | | | | KARK | 890 Little Rock, Ark., <i>CST</i> . 7:30 a.m.-9 p.m. |
| | | | | KASA | 1210 Elk City, Okla., <i>CST</i> . 7 a.m.-9 p.m. |
| | | | | KBPS | 1420 Portland, Ore., <i>PST</i> . 11 a.m.-12:30 p.m.; 8-9 p.m. |
| | | | | KBTM | 1200 Paragould, Ark., <i>CST</i> . 7:30 a.m.-3 p.m. |

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| KCMC 1420 Texarkana, Ark., <i>CST</i> . 6:45 a.m.-2 p.m.; 4-9 p.m. | KFLX 1370 Galveston, Texas. | KGCA 1270 Decorah, Iowa, <i>CST</i> . 8:30-9:45 a.m.; 10:45-11:30 a.m.; 12:30-2:30 p.m. |
| KCRC 1370 Enid, Okla., <i>CST</i> . 10 a.m.-2 p.m.; 3:45-7:45 p.m. | KFMX 1250 Northfield, Minn., <i>CST</i> . 10:15-10:35 a.m.; 8-9 p.m. | KGCR 1210 Watertown, S. D., <i>CST</i> . 6:30 a.m.-3 p.m.; 5-9. |
| KCRJ 1310 Jerome, Ariz., <i>MST</i> . 7:30-9:30 a.m.; noon-1 p.m.; 3:45-6 p.m. | KFNF 890 Shenandoah, Iowa, <i>CST</i> . 5-8 a.m.; 9-10 a.m.; 12:15-5 p.m.; 6-8 p.m.; 9-10 p.m. | KGCU 1240 Mandan, N. D., <i>MST</i> . Noon-5 p.m.; 6:45-9 p.m. |
| KDB 1500 Santa Barbara, Calif., 8 a.m.-mid., <i>PST</i> . | KFOR 1210 Lincoln, Nebr., <i>CST</i> . 7 a.m.-10 p.m. | KGCV 1310 Wolf Point, Mont., <i>MST</i> 6:30-9 a.m.; 11:30-3; 6-9 p.m. |
| KDFN 1440 Casper, Wyo., <i>MST</i> . 9 a.m.-9 p.m. | KFOX 1250 Long Beach, Calif., <i>PST</i> . 6 a.m.-mid. | KGDA 1370 Mitchell, S. D., <i>CST</i> . 8 a.m.-4:30 p.m.; 5:30-9. |
| KDKA 980 Pittsburgh, Pa., <i>EST</i> . 7 a.m.-12:30 a.m. next day. | KFPL 1310 Dublin, Texas, <i>CST</i> . 6 a.m.-10:30 p.m. | KGDE 1200 Fergus Falls, Minn. 7 a.m.-9 p.m., <i>CST</i> . |
| KDLR 1210 Devils Lake, N. D., <i>CST</i> . 7 a.m.-3 p.m.; 5:30-9:30 p.m. | KFPM 1310 Greenville, Texas, <i>CST</i> . 7:45-9 a.m.; 1-2:45 p.m.; 6-9. | KGDM 1100 Stockton, Calif., <i>PST</i> . 6 a.m.-sunset. |
| KDYL 1290 Salt Lake City, Utah. 6:30 a.m.-1 a.m., <i>MST</i> . | KFPW 1210 Fort Smith, Ark., <i>CST</i> . 6:30 a.m.-2 p.m.; 5-10:30 p.m. | KGDY 1200 Huron, S. D., <i>CST</i> . 7 a.m.-2 p.m.; 4-9 p.m. |
| KECA 1430 Los Angeles, Calif., <i>PST</i> . 9 a.m.-11 p.m. | KFPY 1340 Spokane, Wash., <i>PST</i> . 7 a.m.-12:30 a.m. next day. | KGDK 1200 Yuma, Colo., <i>MST</i> . 11:30 a.m.-mid. |
| KELW 780 Burbank, Calif., <i>PST</i> . 10 a.m.-1 p.m.; 5-8 p.m. | KFQD 1230 Anchorage, Alaska. 6 p.m.-mid. (Zone 6) | KGEE 1360 Long Beach, Calif., <i>PST</i> 6 a.m.-mid. |
| KERN 1200 Bakersfield, Calif., <i>PST</i> . 7:30 a.m.-mid. | KFRG 610 San Francisco, Calif. 7 a.m.-1 a.m., <i>PST</i> . | KGEW 1200 Ft. Morgan, Colo., <i>MST</i> 6:30-9:30 p.m. |
| KEX 1180 Portland, Ore., <i>PST</i> . 7 a.m.-noon; 1 p.m.-mid. | KFRU 630 Columbia, Mo., <i>CST</i> . 6:30-9 a.m.; 4-7:30 p.m.; 9 p.m.-mid. | KGEX 1310 Kalispell, Mont., <i>MST</i> . 8 a.m.-9 p.m. |
| KFAB 770 Lincoln, Neb., <i>CST</i> . 6 a.m.-10:30 p.m. | KFSD 800 San Diego, Calif., <i>PST</i> . 7:30 a.m.-mid. | KGFF 1420 Shawnee, Okla., <i>CST</i> . 7:30 a.m.-9 p.m. |
| KFAC 1300 Los Angeles, Calif., <i>PST</i> . 7 a.m.-mid. | KFSG 1120 Los Angeles, Calif., <i>PST</i> . 1:30-3 p.m. | KGFG 1370 Oklahoma City, Okla. 7:15-10 a.m.; 3-3:45 p.m.; 7:45-10 a.m., <i>CST</i> . |
| KFBB 1280 Great Falls, Mont., <i>MST</i> . 8 a.m.-3 p.m.; 5-10 p.m. | KFUL 1290 Galveston, Texas, <i>CST</i> . 8-9:30 a.m.; 11 a.m.-1 p.m.; 2:30-4 p.m.; 5:30-8 p.m.; 10:15-mid. | KGFI 1500 Corpus Christi, Texas. 7 a.m.-3 p.m.; 6-10 p.m., <i>CST</i> . |
| KFBI 1050 Abilene, Kans., <i>CST</i> . 5 a.m.-9 p.m. | KFUO 550 St. Louis, Mo., <i>CST</i> . 6:30-7 a.m.; 12:15-12:40 p.m.; 9:30-10:30 p.m. | KGFJ 1200 Los Angeles, Calif. 24 hours daily. |
| KFBK 1310 Sacramento, Calif., <i>PST</i> . 7 a.m.-11 p.m. | KFVD 1000 Los Angeles, Calif., <i>PST</i> . 6 a.m.-6:45 p.m.; 10 p.m.-mid. | KGFK 1500 Moorhead, Minn., <i>CST</i> . 8 a.m.-9 p.m. |
| KFBL 1370 Everett, Wash., <i>PST</i> . 8:30 a.m.-noon; 3-6 p.m.; 3-6 a.m. | KFVS 1210 Cape Girardeau, Mo. 9 a.m.-noon; 4-8:30 p.m., <i>CST</i> . | KGFL 1370 Santa Fe, N. M., <i>MST</i> . 9-10 a.m.; 11 a.m.-3 p.m.; 4-5:30 p.m.; 7:30-9. |
| KFDM 560 Beaumont, Tex., <i>CST</i> . 7 a.m.-2 p.m.; 4:30-10:30 p.m. | KFWO 950 Los Angeles, Calif., <i>PST</i> . 7:30 a.m.-mid. | KGFW 1310 Kearney, Neb., <i>CST</i> . 7:30 a.m.-1:30 p.m.; 5-10:30 p.m. |
| KFDY 550 Brookings, S. D., <i>CST</i> . 12:30-2 p.m. | KFWF 1200 St. Louis, Mo., <i>CST</i> . 9:45-11:15 a.m. | KGFX 630 Pierre, S. D. 1420 San Francisco, Calif. |
| KFEL 920 Denver, Colo., <i>MST</i> . 7-8:30 a.m.; 10 a.m.-12:30 p.m.; 3-4:30 p.m.; 6-7:30 p.m.; 9-mid. | KFWI 930 San Francisco, Calif. 7-8 a.m.; 9 a.m.-1 p.m.; 6-7:30 | KGGC 1420 San Francisco, Calif. 9 a.m.-9 p.m., <i>PST</i> . |
| KFEQ 680 St. Joseph, Mo., <i>CST</i> . 6 a.m.-7:45 p.m. | KFXD 1200 Nampa, Idaho, <i>MST</i> . 7 a.m.-9 p.m. | KGGF 1010 Coffeyville, Kans., <i>CST</i> . 7:30 a.m.-2 p.m.; 5-10:30. |
| KFGQ 1310 Boone, Iowa, <i>CST</i> . 6:30 a.m.; 1:30-2:30 p.m. | KFXF 920 Denver, Colo., <i>MST</i> . 8:30-10 a.m.; 12:30-3; 4:30-6; 7:30-9 p.m. | KGGM 1230 Albuquerque, N. M. 8 a.m.-2 p.m.; 4-10 p.m., <i>MST</i> . |
| KFH 1300 Wichita, Kans., <i>CST</i> . 7-8:30 a.m.; 9-11 a.m.; 11:30 a.m.-2 p.m.; 3-6 p.m.; 7-9 p.m.; 10-11 p.m. | KFXJ 1200 Grand Jct., Colo., <i>MST</i> . 8 a.m.-2 p.m.; 6-9 p.m. | KGHF 1320 Pueblo, Colo., <i>MST</i> . 7 a.m.-1 p.m.; 4-10 p.m. |
| KFI 840 Los Angeles, Calif., <i>PST</i> . 6:30 a.m.-mid. | KFXM 1210 San Bernardino, Calif. 7 a.m.-mid. <i>PST</i> . | KGHI 1200 Little Rock, Ark., <i>CST</i> 8:30 a.m.-1:30 p.m.; 5-9; mid-3 a.m. |
| KFIO 1120 Spokane, Wash., <i>PST</i> . 6 a.m.-sunset. | KFXR 1310 Oklahoma City, Okla. 7:30 a.m.-2 p.m.; 4-10, <i>CST</i> . | KGHL 950 Billings, Mont., <i>MST</i> . 7:30 a.m.-4 p.m.; 5:30-11. |
| KFIZ 1420 Fond du Lac, Wis., <i>CST</i> . 10 a.m.-1 p.m.; 4-10 p.m. | KFYO 1310 Lubbock, Texas, <i>CST</i> . 6 a.m.-2 p.m.; 4-10 p.m. | KGIR 1360 Butte, Mont., <i>MST</i> . 7 a.m.-mid. |
| KFJB 1200 Marshalltown, Iowa. 6-9 a.m.; noon-3 p.m.; 6-9 p.m. | KFYR 550 Bismarck, N. D., <i>CST</i> . 6:30 a.m.-12:30 p.m.; 2-11 p.m. | KGIW 1420 Trinidad, Colo., <i>MST</i> . 6-8 a.m.; 10-2 p.m.; 5-8 p.m. |
| KFJI 1210 Klamath Falls, Ore. 7:30 a.m.-9 p.m., <i>PST</i> . | KGZ 1470 Spokane, Wash., <i>PST</i> . 6 a.m.-mid. | KGIX 1420 Las Vegas, Nev., <i>PST</i> . 6-9 a.m.; noon-3 p.m.; 6-9 p.m. |
| KFJM 1370 Grand Forks, N. D. 7 a.m.-9 p.m., <i>CST</i> . | KGK 1370 Tucson, Ariz., <i>MST</i> . 7 a.m.-1:30 p.m.; 4-11. | KGIZ 1500 Grant City, Mo., <i>CST</i> . 7-11 a.m.; noon-5 p.m.; 6-9 p.m. |
| KFJR 1300 Portland, Ore., <i>PST</i> . 10:30 a.m.-2:30 p.m.; 5-6 p.m.; 7 p.m.-mid. | KGAR 1330 San Diego, Calif., <i>PST</i> . 7 a.m.-mid. | KGKB 1500 Tyler, Texas, <i>CST</i> . 7 a.m.-2 p.m.; 4-10 p.m. |
| KFJZ 1370 Fort Worth, Texas, <i>CST</i> . 7 a.m.-11 p.m. | KGAT 900 Ketchikan, Alaska. (Zone 8), 10 a.m.-3 p.m.; 5-7; 10 p.m.-3 a.m. | KGKL 1370 San Angelo, Texas, <i>CST</i> 8 a.m.-9:30 p.m. |
| KFKA 880 Greeley, Colo., <i>MST</i> . 6:30 a.m.; 9 a.m.-2:30 p.m.; 8-11 p.m. | KBG 1310 Springfield, Mo., <i>CST</i> . 6:30-9:30 a.m.; 11 a.m.-2 p.m.; 4-10 p.m. | KGKO 570 Wichita Falls, Texas. 1420 Lewiston, Idaho. |
| KFKU 1220 Lawrence, Kans., <i>CST</i> . 2:30-3 p.m.; 6-6:30 p.m. | KBGK 930 York, Neb., <i>CST</i> . 7:30-9:30 a.m.; 11 a.m.-12:30 p.m.; 2-3:30 p.m.; 5-6:30 p.m.; 8:30-10 p.m. | KGKY 1500 Scottsbluff, Neb., <i>MST</i> . 6:30 a.m.-2 p.m.; 4:30-9. |
| KFKX 1020 Chicago, Ill. | KBGX 1310 Springfield, Mo., <i>CST</i> . 6:30-9:30 a.m.; 11 a.m.-2 p.m.; 4-10 p.m. | KGMB 1320 Honolulu, Hawaii. 7-9 a.m.; 10:40 a.m.-11 p.m. (Zone 5) |
| KFLV 1410 Rockford, Ill., <i>CST</i> . 10 a.m.-12:30 p.m.; 3-6 p.m.; 8-10 p.m. | KBGZ 930 York, Neb., <i>CST</i> . 7:30-9:30 a.m.; 11 a.m.-12:30 p.m.; 2-3:30 p.m.; 5-6:30 p.m.; 8:30-10 p.m. | KGNF 1430 North Platte, Neb. 7 a.m.-sunset, <i>MST</i> . |
| | | KGNO 1210 Dodge City, Kans. 7:30 a.m.-3:30 p.m.; 5-9, <i>MST</i> |

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| KGO 790 San Francisco, Calif. 7 a.m.-12:30 a.m., <i>PST.</i> | KMTR 570 Hollywood, Calif., <i>PST.</i> 6:30 a.m.-mid. | KSAC 580 Manhattan, Kans., <i>CST.</i> 8-9 a.m.; 10-10:30 a.m.; 12:30-1:30 p.m.; 4:30-5:30 p.m. |
| KGRS 1410 Amarillo, Texas, <i>CST.</i> 6-8 a.m.; 10 a.m.-12:30 p.m.; 2:15-7:30 p.m.; 9-10 p.m. | KNOW 1500 Austin, Texas, <i>CST.</i> 7:30 a.m.-1 p.m.; 5-11 p.m. | KSCJ 1330 Sioux City, Iowa, <i>CST.</i> 6:30 a.m.-11 p.m. |
| KGU 750 Honolulu, Hawaii. 6:15-10:30 a.m.; noon-1 p.m.; 4:45-11 p.m. (Zone 5) | KNX 1050 Hollywood, Calif., <i>PST.</i> 6:30 a.m.-1 a.m. next day. | KSD 550 St. Louis, Mo., <i>CST.</i> 7 a.m.-12:15 p.m.; 12:40-11 p.m. |
| KGVO 1200 Missoula, Mont., <i>MST.</i> 6 a.m.-mid. | KOA 830 Denver, Colo., <i>MST.</i> 7 a.m.-mid. | KSEI 890 Pocatello, Idaho, <i>MST.</i> 8 a.m.-11 p.m. |
| KGW 620 Portland, Ore., <i>PST.</i> 6:30 a.m.-mid. | KOAC 550 Corvallis, Ore., <i>PST.</i> 6:30 a.m.-4 p.m.; 6-8:30 p.m. | KSL 1130 Salt Lake City, Utah. 7 a.m.-mid., <i>MST.</i> |
| KGY 1210 Olympia, Wash., <i>PST.</i> 6 p.m.-mid. | KOB 1180 Albuquerque, N. M. 7 a.m.-9 p.m., <i>MST.</i> | KSO 1180 Des Moines, Iowa. 1310 Sioux Falls, S. D., <i>CST.</i> 6 a.m.-3 p.m. |
| KHJ 900 Los Angeles, Calif., <i>PST.</i> 7 a.m.-1 a.m. next day. | KOCW 1400 Chickasha, Okla. 1380 Reno, Nev., <i>PST.</i> 8 a.m.-9 p.m. | KSTP 1460 St. Paul, Minn., <i>CST.</i> 6:30 a.m.-12:30 a.m. next day |
| KHQ 590 Spokane, Wash., <i>PST.</i> 7 a.m.-mid. | KOH 1260 Council Bluffs, Ia., <i>CST.</i> 6 a.m.-1 a.m. | KTAB 560 San Francisco, Calif. 6:45 a.m.-1 a.m., <i>PST.</i> |
| KICA 1370 Clovis, N. M. 1420 Red Oak, Iowa. Silent. | KOIL 1260 Council Bluffs, Ia., <i>CST.</i> 6 a.m.-1 a.m. | KTAR 620 Phoenix, Ariz., <i>MST.</i> 7 a.m.-11:15 p.m. |
| KID 1320 Idaho Falls, Idaho, <i>MST.</i> 9 a.m.-mid. | KOIN 940 Portland, Ore., <i>PST.</i> 6 a.m.-1 a.m. next day. | KTAT 1240 Ft. Worth, Texas. 7-9 a.m.; noon-1:30 p.m.; 4-7 p.m.; 9-mid. |
| KIDO 1350 Boise, Idaho, <i>MST.</i> 7 a.m.-9:30 p.m. | KOL 1270 Seattle, Wash., <i>PST.</i> 6:45 a.m.-mid. | KTBS 1450 Shreveport, La., <i>CST.</i> 6 a.m.-mid. |
| KIDW 1420 Lamar, Colo., <i>MST.</i> 6-8 a.m.; 2-6 p.m.; 8-10. | KOMA 1480 Oklahoma City, Okla. 7 a.m.-11 p.m., <i>CST.</i> | KTFI 1240 Twin Falls, Idaho, <i>MST.</i> 6:30 a.m.-11 p.m. |
| KIEM 1210 Eureka, Calif., <i>PST.</i> 9-10 a.m.; 11 a.m.-12:30 p.m.; 1:45-2:15 p.m.; 4:30-5:30 p.m.; 6:30-7:30 p.m.; 9-10:45 p.m. | KOMO 920 Seattle, Wash., <i>PST.</i> 6:55 a.m.-12:30 a.m. next day. | KTHS 1040 Hot Springs, Ark., <i>CST.</i> 9-10 a.m.; 11 a.m.-12:30 p.m.; 1:45-2:15 p.m.; 4:30-5:30 p.m. |
| KIEV 850 Glendale, Calif., <i>PST.</i> | KONO 1370 San Antonio, Tex., <i>CST.</i> 8:30-10 a.m.; 11 a.m.-noon; 1:30-4 p.m.; 6-7 p.m.; 8-10. | KTM 780 Los Angeles, Calif., <i>PST.</i> 6-10 a.m.; 1-5 p.m.; 8 p.m.-4 a.m. next day. |
| KIFH 1310 Juneau, Alaska. | KOOS 1370 Marshfield, Ore., <i>PST.</i> 9 a.m.-9 p.m. | KTRH 1120 Houston, Texas, <i>CST.</i> 6:30-11 a.m.; noon-11:30 p.m. |
| KIT 1310 Yakima, Wash., <i>PST.</i> 7 a.m.-11 p.m. | KORE 1420 Eugene, Ore., <i>PST.</i> 7:45 a.m.-8:30 p.m. | KTSA 1290 San Antonio, Tex., <i>CST.</i> 6-8 a.m.; 9:30-11:30 a.m.; 3-5 p.m.; 7-10 p.m. |
| KJBS 1070 San Francisco, Calif. Mid. to local sunset, <i>PST.</i> | KOY 1390 Phoenix, Ariz., <i>MST.</i> 7 a.m.-10 p.m. | KTSM 1310 El Paso, Texas. 1220 Seattle, Wash. |
| KJR 970 Seattle, Wash., <i>PST.</i> 7 a.m.-mid. | KPCB 650 Seattle, Wash., <i>PST.</i> 5:30 a.m.-8 p.m.; 10 p.m.-4 a.m. | KUJ 1370 Walla Walla, Wash. 6 a.m.-sunset, <i>PST.</i> |
| KLCN 1290 Blytheville, Ark. 1400 Ogden, Utah. 8:30 a.m.-10:30 p.m., <i>MST.</i> | KPJM 1500 Prescott, Ariz., <i>MST.</i> 9 a.m.-9 p.m. | KUMA 1420 Yuma, Ariz., <i>MST.</i> 7-9 a.m.; noon-3 p.m.; 6-9 p.m. |
| KLO 8:30 a.m.-10:30 p.m., <i>MST.</i> 1240 Minot, N. D., <i>CST.</i> 7 a.m.-1 p.m.; 6-7:45 p.m.; 10-11:30 p.m. | KPO 580 San Francisco, Calif. 7:30 a.m.-mid., <i>PST.</i> | KUOA 1390 Fayetteville, Ark., <i>CST.</i> 7-8 a.m.; 11 a.m.-1 p.m.; 5-6:30 p.m. |
| KLPM 1240 Minot, N. D., <i>CST.</i> 7 a.m.-1 p.m.; 6-7:45 p.m.; 10-11:30 p.m. | KPOF 860 Denver, Colo., <i>MST.</i> 7:30-9 a.m.; 2:30-4:30 p.m.; 6-8 p.m. | KUSD 890 Vermillion, S. D., <i>CST.</i> 8-9 p.m. |
| KLRA 1390 Little Rock, Ark., <i>CST.</i> 8-11 a.m.; 1-5 p.m.; 6:30-11 p.m. | KPPC 1210 Pasadena, Calif., <i>PST.</i> Silent. | KVI 570 Tacoma, Wash., <i>PST.</i> 6:30 a.m.-mid. |
| KLS 1440 Oakland, Calif., <i>PST.</i> 8:30 a.m.-7:30 p.m. | KPQ 1500 Wenatchee, Wash., <i>PST.</i> 7 a.m.-10 p.m. | KVL 1370 Seattle, Wash. 1260 Tucson, Ariz. |
| KLX 880 Oakland, Calif., <i>PST.</i> 7 a.m.-11 p.m. | KPRC 920 Houston, Texas, <i>CST.</i> 6:30 a.m.-mid. | KVOA 6-9 a.m.; noon-3 p.m.; 6-9 p.m. |
| KLZ 580 Denver, Colo., <i>MST.</i> 6:30 a.m.-11:30 p.m. | KQV 1380 Pittsburgh, Pa., <i>EST.</i> 8:30 a.m.-1 p.m.; 2-11 p.m. | KVOO 1140 Tulsa, Okla., <i>CST.</i> 7 a.m.-7:45 p.m.; 9 p.m.-mid. |
| KMA 930 Shenandoah, Iowa, <i>CST.</i> 6-7:30 a.m.; 9:30-11 a.m.; 12:30-2 p.m.; 3:30-5 p.m.; 6:30-8:30 p.m.; 10 p.m.-mid. | KQW 1010 San Jose, Calif., <i>PST.</i> 7 a.m.-3 p.m.; 4:30-10 p.m. | KVOR 1270 Colorado Springs, Colo. 7 a.m.-10 p.m., <i>MST.</i> |
| KMAC 1370 San Antonio, Tex., <i>CST.</i> 7-8:30 a.m.; 10-11 a.m.; noon-1:30 p.m.; 4-6 p.m.; 7-8 p.m.; 10 p.m.-mid. | KRE 1370 Berkeley, Calif., <i>PST.</i> 6:30-9:30 a.m.; noon-3 p.m.; 6-9 p.m. | KVOS 1200 Bellingham, Wash. 1420 Cedar Rapids, Ia., <i>CST.</i> 6:30 a.m.-mid. |
| KMBC 950 Kansas City, Mo., <i>CST.</i> 6:15 a.m.-mid. | KREG 1500 Santa Ana, Calif., <i>PST.</i> 9 a.m.-11 p.m. | KWCA 1210 Shreveport, La. 1200 Stockton, Calif., <i>PST.</i> 7 a.m.-mid. |
| KMED 1310 Medford, Ore., <i>PST.</i> 8 a.m.-9:30 p.m. | KRGV 1260 Harlingen, Texas, <i>CST.</i> 7-9:30 a.m.; 12:30-3:30 p.m.; 6:30-9:30 p.m. | KWJ 1060 Portland, Ore. |
| KMJ 580 Fresno, Calif., <i>PST.</i> 7 a.m.-mid. | KRKD 1120 Los Angeles, Calif., <i>PST.</i> 6 a.m.-1:30 p.m.; 3 p.m.-mid. | KWK 1350 St. Louis, Mo., <i>CST.</i> 6:55 a.m.-12:15 a.m. next day. |
| KMLB 1200 Monroe, La., <i>CST.</i> 7 a.m.-10 p.m. | KRLD 1040 Dallas, Texas, <i>CST.</i> 6-7:15 a.m.; 7:45-9 a.m.; 10-11 a.m. 12:30-12:45 p.m.; 1:15-4:30 p.m.; 5:30-6:30 p.m.; 7:30-9 p.m.; 10:45 p.m.-12:15 a.m. | KWKW 1370 Kansas City, Mo. 850 Shreveport, La., <i>CST.</i> 8:30 p.m.-mid. |
| KMMJ 740 Clay Center, Neb., <i>CST.</i> 5:45 a.m.-sunset. | KRMD 1310 Shreveport, La., <i>CST.</i> 7 a.m.-1 p.m.; 5-8 p.m. | KWLC 1270 Decorah, Iowa, <i>CST.</i> 6:45-8 a.m.; 10:30-9:30 p.m.; 11:30 a.m.-12:30 p.m. |
| KMO 1330 Tacoma, Wash., <i>PST.</i> 6:30 a.m.-11 p.m. | KROW 930 Oakland, Calif., <i>PST.</i> 8-9 a.m.; 1-6 p.m.; 7:30-8:30 p.m. | KWSC 1220 Pullman, Wash., <i>PST.</i> 6:45-8 a.m.; 10:30 a.m.-9:30 p.m. |
| KMOX 1090 St. Louis, Mo., <i>CST.</i> 6:45 a.m.-12:45 a.m. next day. | KRSC 1120 Seattle, Wash., <i>PST.</i> Sunrise to local sunset. | |
| KMPK 710 Beverly Hills, Calif. 6:30 a.m.-5:15 p.m.; 8-1 a.m. <i>PST.</i> | | |

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| KWWG 1260 Brownsville, Texas. | WBAK 1430 Harrisburg, Pa., <i>EST.</i> 10:30-11:30 a.m.; 1:30-2:30; 4-4:30 p.m. | WCBA 1440 Allentown, Pa., <i>EST.</i> 7:30 a.m.-1 a.m. |
| KXA 760 Seattle, Wash., <i>PST.</i> 7 a.m.-sundown; 9 p.m.-mid. | WBAL 1060 Baltimore, Md., <i>EST.</i> 7 a.m.-mid. | WCBF 1080 Zion, Ill., <i>CST.</i> 7:30-10:30 a.m.; 1:30-2 p.m.; 4-4:45 p.m. |
| KXL 1420 Portland, Ore., <i>PST.</i> 7 a.m.-mid. | WBAP 800 Ft. Worth, Texas, <i>CST.</i> 8:30-10:30 a.m.; 12:30-3 p.m.; 4:30-5:30 p.m.; 9 p.m.-mid. | WCBM 1370 Baltimore, Md., <i>EST.</i> 7 a.m.-1:30 p.m.; 5-11 p.m. |
| KXO 1310 Aberdeen, Wash., <i>PST</i> 7:30 a.m.-10 p.m. | WBAX 1210 Wilkes Barre Pa., <i>EST.</i> 7:30-11 a.m. | WCBS 1210 Springfield, Ill., <i>CST.</i> 11:30 a.m.-3 p.m.; 6:45-9 p.m. |
| KXYZ 1440 Houston, Texas, <i>CST.</i> 7-10 a.m.; 11 a.m.-1:15 p.m.; 3:30-10:30 p.m. | WBBC 1400 Brooklyn, N. Y., <i>EST.</i> 4-6 p.m.; 10 p.m.-1 a.m. | WCCO 610 Minneapolis, Minn. 8:45 a.m.-mid., <i>CST.</i> |
| KYA 1230 San Francisco, Calif. 7:30 a.m.-mid., <i>PST.</i> | WBBL 1210 Richmond, Va., <i>EST.</i> Silent. | WCDA 1350 New York City, <i>EST.</i> 9 a.m.-4 p.m. |
| KYW 1020 Chicago, Ill., <i>CST.</i> 7 a.m.-1 a.m. next day. | WBBM 770 Chicago, Ill., <i>CST.</i> 6:45 a.m.-10 p.m.; 11:30 p.m.-2 a.m. | WCFL 970 Chicago, Ill., <i>CST.</i> 6 a.m.-mid. |
| KZRM 612.5 Manila, P. I. 6:30-7:30 a.m.; 12:15-1:15; 3-10:30 p.m. | WBBR 1300 Brooklyn, N. Y., <i>EST.</i> 10 a.m.-noon; 6-8 p.m. | WCGU 1400 Brooklyn, N. Y., <i>EST.</i> 11:15 a.m.-1:30 p.m.; 6-7:30 p.m. |
| NAA 690 Arlington, Va. | WBBZ 1200 Ponca City, Okla., <i>CST.</i> 6 a.m.-10 p.m. | WCKY 1490 Covington, Ky., <i>CST.</i> Mid.-mid. |
| RGS 664 Salvador. | WBCM 1410 Bay City, Mich., <i>EST.</i> 8 a.m.-mid. | WCLO 1200 Janesville, Wis., <i>CST.</i> 7:30 a.m.-3:30 p.m.; 5-9 p.m. |
| TGW 570 Guatemala. | WBEN 900 Buffalo, N. Y., <i>EST.</i> 6:45 a.m.-mid. | WCLS 1310 Joliet, Ill., <i>CST.</i> 11 a.m.-noon; 3-8 p.m.; 10 p.m.-mid. |
| TIGR 911 San Jose, C. R. | WBEO 1310 Marquette, Mich., <i>CST.</i> 9:30 a.m.-1:15 p.m.; 5-7 p.m. | WCMA 1400 Culver, Ind., <i>CST.</i> 6-6:30 a.m.; 1:15-4:15 p.m.; 10:30-10 p.m. |
| VAS 685 Glace Bay, N. S., <i>AST.</i> 1-1:15 p.m.; mid.-12:15 a.m. | WBHS 1200 Huntsville, Ala., <i>CST.</i> 8 a.m.-2 p.m.; 5-9:30 p.m. | WCOA 1340 Pensacola, Fla., <i>CST.</i> 9 a.m.-10:30 p.m. |
| VOAS 810 St. Johns, N. F. 11 a.m.-12:30 p.m.; 4:5-3 p.m. (Zone 19). | WBIG 1440 Greensboro, N. C., <i>EST.</i> 8 a.m.-3 p.m.; 5-11 p.m. | WCOC 880 Meridian, Miss., <i>CST.</i> 7:30 a.m.-2 p.m.; 5-11 p.m. |
| VOGT 893 Wabana, N. F. Silent. | WBNX 1350 New York City, <i>EST.</i> 4:00-7:30 p.m.; 8:30-10:30 p.m. | WCOD 1200 Harrisburg, Pa., <i>EST.</i> 8-11 a.m.; 3-6 p.m.; 8-11 p.m. |
| VOGY 860 St. Johns, N. F. | WBOQ 880 New York City. | WCRW 1210 Chicago, Ill., <i>CST.</i> 7-8:30 a.m.; 11:30 a.m.-1:30 p.m.; 6-7 p.m.; 9-10 p.m. |
| VONA 950 St. Johns, N. F. 12:30-2 p.m.; 6:30-8 p.m. (Zone 19). | WBOW 1310 Terre Haute, Ind., <i>CST.</i> 7 a.m.-2 p.m.; 4-11 p.m. | WCSC 1380 Charleston, S. C., <i>EST.</i> 8 a.m.-3 p.m.; 6-11 p.m. |
| VONF 1115 St. Johns, N. F. 1-2 p.m.; 6:30-8 p.m. (Zone 19) | WBRC 930 Birmingham, Ala., <i>CST.</i> 7 a.m.-11 p.m. | WCSH 940 Portland, Maine, <i>EST.</i> 7:45 a.m.-1 p.m.; 2-10:45 p.m. |
| VOWR 750 St. Johns, N. F. Silent. | WBRE 1310 Wilkes Barre, Pa. | WDAE 1220 Tampa, Fla., <i>EST.</i> 8 a.m.-mid. |
| WAAB 1410 Boston, Mass., <i>EST.</i> 7:45 a.m.-mid. | WBRO 920 Babson Park, Mass., 7 a.m.-5 p.m., <i>EST.</i> | WDAF 610 Kansas City, Mo., <i>CST.</i> 6:26 a.m.-mid. |
| WAAF 920 Chicago, Ill., <i>CST.</i> 6 a.m.-local sunset. | WBT 1080 Charlotte, N. C., <i>EST.</i> 7 a.m.-mid. | WDAG 1410 Amarillo, Texas, <i>CST.</i> 8-10 a.m.; 12:30-2:15 p.m.; 7:30-9 p.m.; 10 p.m.-mid. |
| WAAM 1250 Newark, N. J., <i>EST.</i> 7-9 a.m.; 10 a.m.-noon; 2-4:30 p.m.; 9 p.m.-mid. | WBTM 1370 Danville, Va., <i>EST.</i> 7:30 a.m.-1 p.m.; 4-6:30 p.m. | WDAH 1310 El Paso, Texas. |
| WAAT 940 Jersey City, N. J., <i>EST.</i> 6 a.m.-6 p.m. | WBZ 990 Boston, Mass., <i>EST.</i> 9 a.m.-mid. | WDAS 1370 Philadelphia, Pa., <i>EST.</i> 9 a.m.-10:30 p.m. |
| WAAW 660 Omaha, Neb., <i>CST.</i> 6 a.m.-6 p.m. | WBZA 990 Springfield, Mass., <i>EST.</i> 7 a.m.-mid. | WDAY 940 Fargo, N. D., <i>CST.</i> 6 a.m.-11 p.m. |
| WABC 860 New York City, <i>EST.</i> 7:30 a.m.-2 a.m. next day. | WCAC 600 Storrs, Conn., <i>EST.</i> 12:30-1 p.m.; 7-8 p.m. | WDBJ 930 Roanoke, Va., <i>EST.</i> 8 a.m.-mid. |
| WABI 1200 Bangor, Maine, <i>EST.</i> 9 a.m.-2 p.m.; 6-10 p.m. | WCAD 1220 Canton, N. Y., <i>EST.</i> 12:30-1:20 p.m. | WDBO 580 Orlando, Fla., <i>EST.</i> 7 a.m.-mid. |
| WABZ 1200 New Orleans, La., <i>CST.</i> Noon-4 p.m.; 8 p.m.-mid. | WCAE 1220 Pittsburgh, Pa., <i>EST.</i> 6:45 a.m.-mid. | WDEL 1120 Wilmington, Del., <i>EST.</i> 9 a.m.-10 p.m. |
| WACO 1240 Waco, Texas, <i>CST.</i> 6-7 a.m.; 9-noon; 1:30-4 p.m.; 7-9 p.m. | WCAH 1430 Columbus, Ohio, <i>EST.</i> 7:45 a.m.-mid. | WDEV 550 Waterbury, Vt., <i>EST.</i> 9:30-11 a.m.; noon-2 p.m. |
| WADC 1320 Akron, Ohio, <i>EST.</i> 8:30 a.m.-mid. | WCAJ 590 Lincoln, Neb., <i>CST.</i> 10-10:45 a.m.; 3:30-4:30 p.m.; 11:30 p.m.-mid. | WDGY 1180 Minneapolis, Minn. 6:30 a.m.-8:15 p.m., <i>CST.</i> |
| WAGM 1420 Presque Isle, Me., <i>EST.</i> 10 a.m.-1 p.m.; 4:30-9:30 p.m. | WCAL 1250 Northfield, Minn., <i>CST.</i> 9:45-10:15 a.m. | WDOD 1280 Chattanooga, Tenn. 7:30 a.m.-11 p.m., <i>CST.</i> |
| WAIU 640 Columbus, Ohio, <i>EST.</i> 7 a.m.-sunset. | WCAM 1280 Camden, N. J., <i>EST.</i> 11 a.m.-noon; 2-5 p.m.; 9 p.m.-mid. | WDRG 1330 Hartford, Conn., <i>EST.</i> 8 a.m.-mid. |
| WALR 1210 Zanesville, Ohio, <i>EST.</i> 9 a.m.-10 p.m. | WCAO 600 Baltimore, Md., <i>EST.</i> 7 a.m.-mid. | WDSU 1250 New Orleans, La., <i>CST.</i> 7 a.m.-11:45 p.m. |
| WAMC 1420 Anniston, Ala., <i>CST.</i> 7-10:30 a.m.; noon-9 p.m. | WCAP 1280 Asbury Park, N. J., <i>EST.</i> 9-11 a.m.; 5-9 p.m. | WDZ 1070 Tuscola, Ill., <i>CST.</i> 7 a.m.-4:30 p.m. |
| WAPI 1140 Birmingham, Ala., <i>CST.</i> 6 a.m.-9 p.m. | WCAT 1200 Rapid City, S. D., <i>CST.</i> 1:30-2:30 p.m. | WEAF 660 New York City, <i>EST.</i> 6:45 a.m.-1 a.m. next day. |
| WASH 1270 Gd. Rapids, Mich., <i>EST.</i> 7 a.m.-mid. | WCAU 1170 Philadelphia, Pa., <i>EST.</i> 8 a.m.-1 a.m. next day. | WEAN 780 Providence, R. I., <i>EST.</i> 7:30 a.m.-1 a.m. next day. |
| WAWZ 1350 Zarephath, N. J., <i>EST.</i> 6-9 a.m.; 7:30-8:30 p.m. | WCAX 1200 Burlington, Vt., <i>EST.</i> Noon-1 p.m.; 8-9 p.m. | WEOA 570 Columbus, Ohio, <i>EST.</i> 9-11 a.m.; 7 p.m.-mid. |
| WAZL 1420 Hazelton, Pa., <i>EST.</i> | WCAZ 1070 Carthage, Ill., <i>CST.</i> 9:30 a.m.-3:30 p.m. | |
| WBAA 1400 Lafayette, Ind., <i>CST.</i> 7-8 pm. | | |

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| WEBC 1290 Superior, Wis., <i>CST.</i> 7 a.m.-11 p.m. | WGBF 630 Evansville, Ind., <i>CST.</i> 6:30 a.m.-3 p.m.; 4-6:45 p.m.; 7-9 p.m. | WHK 1390 Cleveland, Ohio, <i>EST.</i> 7 a.m.-mid. |
| WEBQ 1210 Harrisburg, Ill., <i>CST.</i> 6-9 a.m.; noon-4 p.m.; 8:30-mid. | WGBI 880 Scranton, Pa., <i>EST.</i> 9:30 a.m.-12:30 p.m.; 1:30-4:30 p.m.; 5:30-8 p.m. | WHN 1010 New York City, <i>EST.</i> 9:30 p.m.-1 a.m. |
| WEBR 1310 Buffalo, N. Y., <i>EST.</i> 7 a.m.-2 a.m. next day. | WGCM 1210 Gulfport, Miss., <i>CST.</i> 8 a.m.-2 p.m.; 3-9 p.m. | WHO 1000 Des Moines, Iowa. WHOM 1450 Jersey City, N. J., <i>EST.</i> 8-10 a.m.; noon-3 p.m.; 8-10 p.m. |
| WEDC 1210 Chicago, Ill. | WGCP 1250 Newark, N. J., <i>EST.</i> 2-5 p.m.; 8-10 p.m. | WHP 1430 Harrisburg, Pa., <i>EST.</i> 8:30-10:30 a.m.; 11:30-1:30; 2:30-4; 4:30-1 a.m. |
| WEEI 590 Boston, Mass., <i>EST.</i> 6:45 a.m.-mid. | WGES 1300 Chicago, Ill., <i>CST.</i> 8 a.m.-12:30 p.m.; 6:15-8:30 | WIAS 1310 Ottumwa, Iowa, <i>CST.</i> 7:30 a.m.-1:30 p.m.; 4-9 p.m. |
| WEEU 830 Reading, Pa., <i>EST.</i> 8 a.m.-8 p.m. | WGH 1310 Newport News, Va. 7 a.m.-2 p.m.; 5-11 p.m., <i>EST.</i> | WIBA 1280 Madison, Wis., <i>CST.</i> 6:30 a.m.-11:30 p.m. |
| WEHC 1350 Emory, Va., <i>EST.</i> 6-8 a.m.; 11 a.m.-2 p.m.; 4-7. | WGL 1370 Fort Wayne, Ind., <i>CST.</i> 6:15 a.m.-9:30 p.m. | WIBG 930 Glenaside, Pa., <i>EST.</i> Daybreak to sunset. |
| WEHS 1420 Cicero, Ill., <i>CST.</i> 4-6 p.m. | WGLC 1370 Hudson Falls, N. Y., <i>EST.</i> 7:20 Chicago, Ill., <i>CST.</i> | WIBM 1370 Jackson, Mich., <i>EST.</i> 7:30 a.m.-8:15 p.m.; 11 p.m.- mid. |
| WELL 1420 Battle Creek, Mich. | WGN 720 Chester, N. Y., <i>EST.</i> 7:30 a.m.-1:30 a.m. next day. | WIBO 550 Chicago, Ill., <i>CST.</i> 6:30 a.m.-mid. |
| WENC 1420 Americus, Ga., <i>EST.</i> 7 a.m.-2 p.m.; 4 p.m.-sunset. | WGNV 1210 Chester, N. Y., <i>EST.</i> 7:30 a.m.-mid. | WIBU 1210 Poynette, Wis., <i>CST.</i> 9 a.m.-9 p.m. |
| WENR 870 Chicago, Ill., <i>CST.</i> 10:15-11:45 a.m.; 3:30-7 p.m.; 8:30 p.m.-1 a.m. next day. | WGR 550 Buffalo, N. Y., <i>EST.</i> 7:30 a.m.-mid. | WIBW 580 Topeka, Kans., <i>CST.</i> 6 a.m.-mid. |
| WESG 1040 Elmira, N. Y. Variable. | WGST 890 Atlanta, Ga., <i>CST.</i> 7 a.m.-11 p.m. | WIBC 600 Bridgeport, Conn., <i>EST.</i> 7:30 a.m.-mid. |
| WEVD 1300 New York City, <i>EST.</i> 8-9 a.m.; 3-6 p.m.; 8-9 p.m.; 10-11 p.m. | WGY 790 Schenectady N.Y., <i>EST.</i> 6:45 a.m.-1 a.m. next day. | WIL 1200 St. Louis, Mo., <i>CST.</i> 7:30 a.m.-12:15 p.m.; 5-6 p.m. |
| WEW 750 St. Louis, Mo., <i>CST.</i> 8 a.m.-5 p.m. | WHA 940 Madison, Wis., <i>CST.</i> 8 a.m.-3:30 p.m. | WILL 890 Urbana, Ill., <i>CST.</i> 10 a.m.-12:15 p.m.; 5-6 p.m. |
| WEXL 1310 Royal Oak, Mich., <i>EST.</i> 8 a.m.-11 p.m.; 1:30-5 a.m. | WHAD 1120 Milwaukee, Wis., <i>CST.</i> 9:30-10:15 a.m.; 3-4 p.m.; 8:30- 9:30 p.m. | WILM 1420 Wilmington, Del., <i>EST.</i> 7:30 a.m.-2 p.m.; 4:30-10 p.m. |
| WFAA 800 Dallas, Texas, <i>CST.</i> 6:45-8:30 a.m.; 10:30 a.m.-12:30 p.m.; 3-5 p.m.; 5:30-9 p.m. | WHAM 1150 Rochester, N. Y., <i>EST.</i> 7:45 a.m.-mid. | WINS 1180 New York City, <i>EST.</i> 7 a.m.-10:15 p.m. |
| WFAB 1300 New York City. | WHAS 820 Louisville, Ky., <i>CST.</i> 7 a.m.-mid. | WIOD 1300 Miami, Fla., <i>EST.</i> 7 a.m.-1 a.m. next day. |
| WFAM 1200 South Bend, Ind., <i>CST.</i> 7:30-10:15 a.m.; noon-3 p.m.; 5:30-8:30 p.m. | WHAT 1310 Philadelphia, Pa., <i>EST.</i> 9-11:30 a.m.; 1-2 p.m.; 5-6:30 p.m. | WIP 610 Philadelphia, Pa., <i>EST.</i> 9 a.m.-mid. |
| WFAN 610 Philadelphia, Pa., <i>EST.</i> 9 a.m.-mid. | WHAZ 1300 Troy, N. Y., <i>EST.</i> Silent. | WIS 1010 Columbia, S. C., <i>EST.</i> 7 a.m.-1:30 p.m.; 5:30-11 p.m. |
| WFAS 1210 White Plains, N. Y. Silent. | WHB 860 Kansas City, Mo., <i>CST.</i> 6 a.m.-sunset. | WISN 1120 Milwaukee, Wis., <i>CST.</i> 7-9:30 a.m.; 10:15 a.m.-3 p.m.; 4-8:30 p.m.; 9:30 p.m.-mid. |
| WFBC 1200 Knoxville, Tenn. | WHBC 1200 Canton, Ohio, <i>EST.</i> 6-9 a.m.; noon-3 p.m.; 6-9 p.m. | WJAC 1310 Johnstown, Pa., <i>EST.</i> 8:30-10:30 a.m.; 4:30-6:15 p.m.; 9:15 p.m.-mid. |
| WFBE 1200 Cincinnati, Ohio, <i>EST.</i> 7 a.m.-11:30 p.m. | WHBD 1370 Mt. Orab, Ohio, <i>EST.</i> 7-11 a.m.; noon-5 p.m.; 6-9 p.m. | WJAG 1060 Norfolk, Neb., <i>CST.</i> 6 a.m.-sunset. |
| WFBG 1310 Altoona, Pa. 10:30 a.m.-4:30 p.m.; 6:15-9:15 | WHBF 1210 Rock Island, Ill., <i>CST.</i> 10 a.m.-3 p.m.; 5 p.m.-mid. | WJAR 890 Providence, R. I., <i>EST.</i> 8 a.m.-mid. |
| WFBL 1360 Syracuse, N. Y., <i>EST.</i> 7:30 a.m.-mid. | WHBL 1410 Sheboygan, Wis., <i>CST.</i> 7-10 a.m.; 12:30-3 p.m.; 6-8 p.m. | WJAS 1290 Pittsburgh, Pa., <i>EST.</i> 7:30 a.m.-11:30 p.m. |
| WFBM 1230 Indianapolis, Ind., <i>CST.</i> 7:30-10:15 a.m.; noon-3 p.m.; 5:30 p.m.-mid. | WHBQ 1370 Memphis, Tenn., <i>CST.</i> 7:55 a.m.-10:30 p.m. | WJAX 900 Jacksonville, Fla., <i>EST.</i> 7 a.m.-11 p.m. |
| WFBR 1270 Baltimore, Md., <i>EST.</i> 7 a.m.-mid. | WHBU 1210 Anderson, Ind., <i>CST.</i> 7 a.m.-1 p.m.; 3-9 p.m. | WJAY 610 Cleveland, Ohio, <i>EST.</i> 6 a.m.-6:45 p.m. |
| WFDF 1310 Flint, Mich., <i>EST.</i> 7 a.m.-11 p.m. | WHBY 1200 Green Bay, Wis., <i>CST.</i> 7 a.m.-10 p.m. | WJBC 1290 LaSalle, Ill., <i>CST.</i> 8-9 a.m.; 10 a.m.-12:30 p.m.; 6:30-10 p.m. |
| WFDV 1500 Rome, Ga., <i>CST.</i> 6-9 a.m.; noon-3 p.m.; 6-9 p.m. | WHDF 1370 Calumet, Mich., <i>CST.</i> 9-10:15 a.m.; noon-1 p.m.; 4:40- 7:30 p.m. | WJBI 1210 Red Bank, N. J., <i>EST.</i> 9 a.m.-noon; 3 p.m.-mid. |
| WFEA 1490 Manchester, N.H., <i>EST.</i> 9 a.m.-11 p.m. | WHDH 830 Boston, Mass., <i>EST.</i> 8 a.m.-12:45 p.m.; 2:45-7:15. | WJBK 1370 Detroit, Mich., <i>EST.</i> 7 a.m.-11 p.m. |
| WFI 560 Philadelphia, Pa., <i>EST.</i> 6:45-9 a.m.; 9:45-11 p.m.; 1-2 p.m.; 3-4:30 p.m.; 6-7 p.m. | WHDL 1420 Tupper Lake, N. Y., <i>EST.</i> 7:45 a.m.-1 p.m.; 3-7:45 p.m. | WJBL 1200 Decatur, Ill., <i>CST.</i> 6:30-8 a.m.; 9-10 p.m.; 12:30-3; 4:30-6:30 p.m. |
| WFIW 940 Hopkinsville, Ky., <i>CST.</i> 6 a.m.-3 p.m.; 5 p.m.-mid. | WHES 740 Portsmouth, N. H., <i>EST.</i> 10 a.m.-sunset. | WJBO 1420 New Orleans, La. |
| WFLA 620 Clearwater, Fla., <i>EST.</i> 7:15 a.m.-11 a.m. | WHFC 1430 Rochester, N. Y., <i>EST.</i> 8 a.m.-mid. | WJBU 1210 Lewisburg, Pa., <i>EST.</i> Noon-2 p.m.; 4-10 p.m. |
| WFOX 1400 Brooklyn, N. Y., <i>EST.</i> 8-11:15 a.m.; 7:30-9 p.m. | WHFE 1500 Kosciusko, Miss. | WJBW 1200 New Orleans, La., <i>CST.</i> 8 a.m.-noon; 4-8 p.m. |
| WGAL 1310 Lancaster, Pa., <i>EST.</i> 10 a.m.-12:45 p.m.; 1:30-6 p.m.; 8-11 p.m. | WHET 1210 Troy, Ala., <i>CST.</i> 6-8 a.m.; 11 a.m.-5 p.m. | WJBY 1210 Gadsden, Ala., <i>CST.</i> 6 a.m.-12:10 next day. |
| WGAR 1450 Cleveland, Ohio, <i>EST.</i> 6 a.m.-1 a.m. next day. | WHFC 1420 Cicero, Ill., <i>CST.</i> 7 a.m.-1:30 p.m.; 6-9 p.m.; 11 p.m.-1 a.m. next day. | WJDX 1270 Jackson, Miss., <i>CST.</i> 6:15-10 a.m.; 11:30 a.m.-10 p.m. |
| WGBB 1210 Freeport, N. Y., <i>EST.</i> Silent. | WHIS 1410 Bluefield, W. Va., <i>EST.</i> 8-9 a.m.; noon-2 p.m.; 6-8 p.m. | |

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| WJEJ 1210 Hagerstown, Md. 7 a.m.-5 p.m. | WLOE 1600 Boston, Mass., <i>EST.</i> 10 a.m.-1:30 p.m.; 4:30-10 p.m. | WNOX 560 Knoxville, Tenn., <i>CST.</i> 6:45 a.m.-11 p.m. |
| WJEQ 1370 Williamsport, Pa. | WLS 870 Chicago, Ill., <i>CST.</i> 6-10:15 a.m.; 11:45 a.m.-3:30 p.m.; 7-8:30 p.m. | WNYC 570 New York City, <i>EST.</i> 11 a.m.-noon; 6-7:30 p.m. |
| WJJD 1130 Chicago, Ill., <i>CST.</i> 6 a.m.-8:30 p.m. | WLTH 1400 Brooklyn, N. Y., <i>EST.</i> 1:30-4 p.m.; 9-10 p.m. | WQAI 1190 San Antonio, Tex., <i>CST.</i> 6:30-9:30 a.m.; 11:15-3 p.m.; 4:45-11:30 p.m. |
| WJKS 1380 Gary, Ind., <i>CST.</i> 12:30-6:15 p.m.; 8:30 p.m.-mid. | WLVA 1370 Lynchburg, Va., <i>EST.</i> 1-3 p.m.; 6:30-10 p.m. | WQAX 1280 Trenton, N. J., <i>EST.</i> Noon-2 p.m. |
| WJMS 1420 Ironwood, Mich., <i>CST.</i> 7 a.m.-2:30 p.m.; 4:30 p.m.-sunset. | WLW 700 Cincinnati, Ohio, <i>EST.</i> 6:30 a.m.-1 a.m. next day. | WOBU 580 Charleston, W. Va., <i>EST.</i> 9 a.m.-noon; 2-4 p.m.; 8:30 p.m.-mid. |
| WJR 750 Detroit, Mich., <i>EST.</i> 6:00 a.m.-1 a.m. next day. | WLWL 1100 New York City. | WOC 1900 Davenport, Iowa, <i>CST.</i> 7 a.m.-11 p.m. |
| WJSV 1480 Washington, D. C., <i>EST.</i> 7:30 a.m.-1 a.m. next day. | WMAC 570 Syracuse, N. Y. | WOCL 1210 Jamestown, N. Y., <i>EST.</i> Noon-mid. |
| WJTL 1370 Atlanta, Ga., <i>CST.</i> 6:45 a.m.-mid. | WMAL 630 Washington, D. C., <i>EST.</i> 8 a.m.-mid. | WODA 1250 Paterson, N. J. |
| WJW 1210 Akron, Ohio, <i>EST.</i> 8 a.m.-10 p.m. | WMAQ 670 Chicago, Ill., <i>CST.</i> 7 a.m.-1 a.m. next day. | WODX 1410 Mobile, Ala., <i>CST.</i> 9 a.m.-4 p.m.; 9-11 p.m. |
| WJZ 760 New York City, <i>EST.</i> 7:30 a.m.-1 a.m. next day. | WMAS 1420 Springfield, Mass., <i>EST.</i> 7:45 a.m.-mid. | WOI 640 Ames, Iowa, <i>CST.</i> 6:30 a.m.-1:30 p.m. |
| WKAQ 1240 San Juan, P. R., <i>AST.</i> 2:30-4:30 p.m.; 6:30-10:30 p.m. | WMAZ 1180 Macon, Ga., <i>EST.</i> 7 a.m.-9:30 p.m. | WOKO 1430 Albany, N. Y., <i>EST.</i> 9 a.m.-1 a.m. next day. |
| WKAR 1840 E Lansing, Mich., <i>EST.</i> Noon-12:30 p.m. | WMBC 1420 Detroit, Mich., <i>EST.</i> 7:30 a.m.-mid. | WOL 1310 Washington, D. C., <i>EST.</i> 7 a.m.-1 p.m.; 3-9 p.m. |
| WKAJ 1310 Laconia, N. H., <i>EST.</i> 9 a.m.-1 p.m.; 3-8 p.m. | WMBD 1440 Peoria, Ill., <i>CST.</i> 6-9:30 a.m.; 1-2:30 p.m.; 8-mid. | WOMT 1210 Manitowoc, Wis., <i>CST.</i> 7 a.m.-9 p.m. |
| WKBB 1310 Joliet, Ill., <i>CST.</i> 8-11 a.m.; noon-3 p.m.; 8-10 p.m. | WMBG 1210 Richmond, Va., <i>EST.</i> 7:30 a.m.-1:30 p.m.; 5-11 p.m. | WOOD 1270 Gd Rapids, Mich., <i>EST.</i> 7 a.m.-mid. |
| WKBC 1310 Birmingham, Ala. | WMBH 1420 Joplin, Mo. Noon-2 p.m.; 6-9:30 p.m., <i>CST.</i> | WOPI 1500 Bristol, Tenn., <i>EST.</i> 7 a.m.-2 p.m.; 4-9 p.m. |
| WKBF 1400 Indianapolis, Ind., <i>CST.</i> 6:30 a.m.-1:15 p.m.; 4:15-10:30 p.m. | WMBI 1080 Chicago, Ill., <i>CST.</i> 7-7:30 a.m.; 10:30-11:30 a.m.; noon-1:30; 2-4:30; 5:30-8 p.m.; mid-1 a.m. | WOQ 1300 Kansas City, Mo., <i>CST.</i> 6-7 a.m.; 8:35-9:05 a.m.; 11-11:30 a.m.; 2-3 p.m.; 6-7 p.m.; 9-10 p.m.; 11:30-12:30 a.m. |
| WKBH 1380 LaCrosse, Wis., <i>CST.</i> 7:30 a.m.-10 p.m. | WMBQ 1310 Auburn, N. Y., <i>EST.</i> 9 a.m.-9 p.m. | WOR 615 Newark, N. J., <i>EST.</i> 6:45 a.m.-mid. |
| WKBI 1420 Cicero, Ill., <i>CST.</i> 1:30-4 p.m.; 9-11 p.m. | WMBR 1370 Tampa, Fla., <i>EST.</i> 6:45 a.m.-10 p.m. | WORC 1200 Worcester, Mass., <i>EST.</i> 8 a.m.-mid. |
| WKBN 570 Youngtown, Ohio, <i>EST.</i> 7-9 a.m.; 11 a.m.-7 p.m. | WMC 780 Memphis, Tenn., <i>CST.</i> 7 a.m.-11 p.m. | WORK 7:55 a.m.-sunset. |
| WKBS 1310 Galesburg, Ill. | WMCA 570 New York City, <i>EST.</i> 8-11 a.m.; noon-6 p.m.; 7:30-2 a.m. | WOS 630 Jefferson City, Mo. 9 a.m.-4 p.m., <i>CST.</i> |
| WKBV 1590 Connersville, Ind., <i>CST.</i> 10 a.m.-noon; 6-10 p.m. | WMIL 1500 Brooklyn, N. Y., <i>EST.</i> 2-6 p.m.; 8-10 p.m. | WOV 1190 New York City, <i>EST.</i> 8 a.m.-6 p.m. |
| WKBW 1480 Buffalo, N. Y., <i>EST.</i> 9:15 a.m.-1 a.m. next day. | WMMN 890 Fairmont, W. Va., <i>EST.</i> 7 a.m.-9 p.m. | WOW 590 Omaha, Neb., <i>CST.</i> 6:15-10 a.m.; 10:45-3:30; 4-11:30 p.m. |
| WKBZ 1600 Ludington, Mich., <i>CST.</i> 9 a.m.-9 p.m. | WMPC 1500 Lapeer, Mich., <i>EST.</i> 10 a.m.-2 p.m.; 3:30-6 p.m.; 7-10:30 p.m. | WOWO 1160 Fort Wayne, Ind., <i>CST.</i> 7:30 a.m.-7:45 p.m.; 9:15 p.m.-mid. |
| WKFI 1210 Greenville, Miss., <i>CST.</i> 7 a.m.-2 p.m.; 4-9 p.m. | WMSG 1350 New York City, <i>EST.</i> 10:30 p.m.-mid. | WPAD 1420 Paducah, Ky., <i>CST.</i> 7-9:30 a.m.; 11 a.m.-2 p.m. 4-10:30 p.m. |
| WKJC 1200 Lancaster, Pa., <i>EST.</i> 11 a.m.-3 p.m.; 6-8 p.m. | WMT 600 Waterloo, Iowa, <i>CST.</i> 7 a.m.-11 p.m. | WPAP 1010 New York City, <i>EST.</i> 9:30 a.m.-1:30 p.m. |
| WKRC 560 Cincinnati, Ohio, <i>EST.</i> 6:45 a.m.-mid. | WNAC 1230 Boston, Mass., <i>EST.</i> 8 a.m.-1 a.m. next day. | WPAW 1210 Providence, R. I., <i>EST.</i> 9 a.m.-1:45 p.m.; 3 p.m.-mid. |
| WKY 900 Oklahoma City, Okla., 6:30 a.m.-11:30 p.m., <i>CST.</i> | WNAD 1010 Norman, Okla. Silent. | WPCC 560 Chicago, Ill. Silent. |
| WKZO 590 Kalamazoo, Mich., <i>EST.</i> 6:30 a.m.-8:15 p.m. | WNAX 570 Yankton, S. D., <i>CST.</i> 6 a.m.-mid. | WPCH 810 New York City, <i>EST.</i> 8 a.m.-sunset. |
| WLAC 1470 Nashville, Tenn., <i>CST.</i> 7 a.m.-11 p.m. | WNB 1600 Binghamton, N.Y., <i>EST.</i> 7 a.m.-10 p.m. | WPEN 1500 Philadelphia, Pa., <i>EST.</i> 7:30 a.m.-10:30 p.m. |
| WLAP 1200 Louisville, Ky., <i>CST.</i> 6:30 a.m.-11 p.m. | WNBH 1310 New Belford, Mass., <i>EST.</i> 8:30 a.m.-1:10 p.m.; 3-11 p.m. | WPFB 1370 Hattiesburg, Miss., <i>CST.</i> 7 a.m.-2 p.m.; 4-9 p.m. |
| WLB 1250 Minneapolis, Minn., 12:30-1 p.m.; 4-5 p.m., <i>CST.</i> | WNBO 1200 Washington, Pa., <i>EST.</i> 9 a.m.-noon; 3-6 p.m.; 9 p.m.-mid. | WPG 1100 Atlantic City, N.J., <i>EST.</i> 8:15 a.m.-2 p.m.; 3-6 p.m.; 8 p.m.-1 a.m. |
| WLB 1310 Muncie, Ind., <i>CST.</i> 7 a.m.-11 p.m. | WNBR 1430 Memphis, Tenn., <i>CST.</i> 7:30 a.m.-12:30 p.m.; 3-10:15 p.m. | WPHR 1200 Petersburg, Va., <i>EST.</i> 7-11 a.m.; noon-5 p.m.; 6-9 p.m. |
| WLB 1420 Kansas City, Kans. 7 a.m.-11 p.m., <i>CST.</i> | WNBW 1200 Carbondale, Pa. | WPRO 1210 Providence, R. I., <i>EST.</i> 9 a.m.-1:45 p.m.; 3 p.m.-mid. |
| WLB 8 a.m.-3:30 p.m., <i>CST.</i> | WNBX 1260 Springfield, Vt., <i>EST.</i> 6 a.m.-sunset. | WPTF 680 Raleigh, N. C., <i>EST.</i> 6:45 a.m.-8:45 p.m. |
| WLB 1260 Erie, Pa., <i>EST.</i> 8 a.m.-1 a.m. next day. | WNBZ 1290 Saranac Lake, N. Y. | WQAM 560 Miami, Fla., <i>EST.</i> 7 a.m.-mid. |
| WLBZ 620 Bangor, Maine, <i>EST.</i> 8:30 a.m.-mid. | | |
| WLEY 1370 Lexington, Mass., <i>EST.</i> Noon-3 p.m.; 6-9 p.m. | | |
| WLIT 560 Philadelphia, Pa., <i>EST.</i> 9-9:45 a.m.; 11 a.m.-1 p.m.; 2-3 p.m.; 4:30-6 p.m.; 7-12:15 a.m. | | |

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| WQAN 880 Scranton, Pa., <i>EST.</i> 9-9:30 a.m.; 12:30-1:30 p.m.; 4:30-5:30 p.m.; 8-11 p.m. | WSMK 1380 Dayton, Ohio, <i>EST.</i> 7 a.m.-8 p.m.; 10 p.m.-mid. | XEFB 1315 Monterrey, Mex., <i>CST.</i> 11 a.m.-2 p.m.; 6-10 p.m. |
| WQAO 1010 New York City, <i>EST.</i> Silent. | WSOC 1210 Gastonia, N. C., <i>EST.</i> 8 a.m.-10 p.m. | XEFC 1050 Merida, Mex. |
| WQBC 1360 Vicksburg, Miss., <i>CST.</i> 7:30 a.m.-2:30 p.m.; 5-10 p.m. | WSPA 1410 Spartanburg, S. C., <i>EST.</i> 7:30 a.m.-11 p.m. | XEPD 1020 Tijuana, Mex. |
| WQDM 1870 St. Albans, Vt., <i>EST.</i> 8-9 a.m.; 11 a.m.-2 p.m. | WSPD 1340 Toledo, Ohio, <i>EST.</i> 7:30 a.m.-mid. | XEFE 1000 Laredo, Mex. |
| WQDX 1210 Thomasville, Ga. | WSUI 880 Iowa City, Iowa, <i>CST.</i> 9-10 a.m.; 11-12:30; 2-4; 6-10 | XEFH 1360 Mexico City, Mex. |
| WRKQ 1370 Williamsport, Pa., <i>EST.</i> 8:30 a.m.-2:30 p.m.; 4:30-10:30. | WSUN 620 St. Petersburg, Fla., <i>EST.</i> 7:15 a.m.-1 a.m. | XEFI 1000 Chihuahua, Mex. |
| WRAM 1870 Wilmington, N. C., <i>EST.</i> 7:30 a.m.-3 p.m.; 6:30-11 p.m. | WSVS 1370 Buffalo, N. Y., <i>EST.</i> 8:30 a.m.-10 a.m.; 2-3 p.m. | XEFJ 1000 Monterrey, Mex. |
| WRAW 1910 Reading, Pa., <i>EST.</i> 7:30-9:30 a.m.; 6-8 p.m. | WSYB 1500 Rutland, Vt., <i>EST.</i> 10 a.m.-1 p.m.; 5-9 p.m. | XEFO 940 Mexico City, Mex., <i>CST.</i> 2-3 p.m.; 7-11 p.m. |
| WRAX 1020 Philadelphia, Pa., <i>EST.</i> 7 a.m.-sunset. | WSYR 570 Syracuse, N. Y., <i>EST.</i> 7 a.m.-3 p.m.; 4-11 p.m. | XEFS 1000 Queretaro, Mex., <i>CST.</i> 7:30-11 p.m. |
| WRBL 1200 Columbus, Ga., <i>CST.</i> 7 a.m.-9 p.m. | WTAD 1440 Quincy, Ill., <i>CST.</i> 9:30 a.m.-1 p.m.; 2:30-8 p.m. | XEFV 1370 Juarez, Mex. |
| WRBX 1410 Roanoke, Va., <i>EST.</i> 9 a.m.-noon; 3-6 p.m.; 8 p.m.-1 | WTAG 580 Worcester, Mass., <i>EST.</i> 8 a.m.-11:15 p.m. | XEFW 1240 Tampico, Mex. |
| WRC 950 Washington, D. C., <i>EST.</i> 6:45 a.m.-1 a.m. next day. | WTAM 1070 Cleveland, Ohio, <i>EST.</i> 6:30 a.m.-1 a.m. next day. | XEFZ 1500 Coyoacan, Mex., <i>CST.</i> 8-11 p.m. |
| WRDO 1370 Augusta, Maine, <i>EST.</i> 7-9:30 a.m.; 10:30 a.m.-1:30 p.m.; 3:30-10 p.m. | WTAQ 1330 Eau Claire, Wis., <i>CST.</i> 7 a.m.-8 p.m. | XEG 1075 Mexico City, Mex. |
| WRDW 1500 Augusta, Ga., <i>EST.</i> 8 a.m.-2 p.m.; 5-11 p.m. | WTAR 780 Norfolk, Va., <i>EST.</i> 7 a.m.-mid. | XEH 1132 Monterrey, Mex., <i>CST.</i> 9 a.m.-1:30 p.m.; 6-10 p.m. |
| WREC 800 Memphis, Tenn. | WTAW 1120 College Station, Texas. 12:30-1:30 p.m.; 8-9 p.m. | XEI 1310 Morelia, Mex., <i>CST.</i> 2-3:30 p.m.; 8:30-10:30 p.m. |
| WREN 1220 Lawrence, Kans., <i>CST.</i> 7 a.m.-mid. | WTAX 1210 Springfield, Ill., <i>CST.</i> 7-11:30 a.m.; 3-6:45; 9-mid. | XEJ 1000 Juarez, Mex., <i>CST.</i> 11 a.m.-4 p.m.; 6-11 p.m. |
| WRHM 1250 Minneapolis, Minn. 6:15-9:45 a.m.; 10:35 a.m.-12:30 p.m.; 1-4 p.m.; 5-8 p.m.; 9-1 a.m., <i>CST.</i> | WTBO 1420 Cumberland, Md., <i>EST.</i> 7 a.m.-1:30 p.m.; 2:30-8 p.m. | XEK 990 Mexico City, Mex. |
| WRJN 1370 Racine, Wis., <i>CST.</i> 8 a.m.-10:30 p.m. | WTCL 1310 Philadelphia, Pa., <i>EST.</i> 7-9 a.m.; noon-1 p.m.; 6:30-9 | XEL 1000 Saltillo, Mex., <i>CST.</i> 11 a.m.-1 p.m.; 6-9 p.m. |
| WRNY 1010 New York City. | WTFI 1450 Athens, Ga., <i>EST.</i> 8 a.m.-4 p.m.; 6-10 p.m. | XEN 711 Mexico City, Mex., <i>CST.</i> 10 a.m.-noon; 2-4 p.m.; 7-11 |
| WROL 1310 Knoxville, Tenn., <i>CST.</i> 7 a.m.-10 p.m. | WTIC 1080 Hartford, Conn., <i>EST.</i> 4 p.m.-mid. | XENT 1116 Nuevo Laredo, Mex. |
| WRR 1280 Dallas, Texas, <i>CST.</i> 6:30 a.m.-11 p.m. | WTJS 1310 Jackson, Tenn., <i>CST.</i> 7 a.m.-1 p.m.; 3-9 p.m. | XEP 780 Mexico City, Mex. |
| WRUF 830 Gainesville, Fla., <i>EST.</i> 8 a.m.-7:30 p.m. | WTMJ 620 Milwaukee, Wis., <i>CST.</i> 6:45 a.m.-12:30 a.m. | XEPN 885 Piedras Negras, Mex. |
| WRVA 1110 Richmond, Va., <i>EST.</i> 7 a.m.-mid. | WTOC 1280 Savannah, Ga., <i>EST.</i> 7 a.m.-mid. | XES 735 Villa Acuna, Mex. 24 hours daily. |
| WSAI 1330 Cincinnati, Ohio, <i>EST.</i> 8 a.m.-11 p.m. | WTRC 1310 Elkhart, Ind., <i>CST.</i> 7:30 a.m.-7:30 p.m. | XET 690 Monterrey, Mex., <i>CST.</i> 9 a.m.-2 p.m.; 6-10 p.m. |
| WSAJ 1310 Grove City, Pa. 5-6 p.m. | WTSL 1310 Laurel, Miss. | XETA 1140 Mexico City, Mex. |
| WSAN 1440 Allentown, Pa., <i>EST.</i> Silent. | WWAE 1200 Hammond, Ind., <i>CST.</i> 7 a.m.-8:30; 11-1 p.m.; 4-11:30 p.m. | XETB 1380 Torreon, Mex. |
| WSAR 1450 Fall River, Mass., <i>EST.</i> 8 a.m.-3:30 p.m.; 5-10 p.m. | WWJ 920 Detroit, Mich., <i>EST.</i> 7:30 a.m.-mid. | XETC 1000 Jalapa, Mex. |
| WSAZ 580 Huntington, W. Va., <i>EST.</i> 6-9 a.m.; noon-2 p.m.; 4-8:30. | WWL 850 New Orleans, La., <i>CST.</i> 8 a.m.-8:30 p.m. | XETF 630 Veracruz, Mex., <i>CST.</i> 7-8 a.m.; noon-2 p.m.; 7 p.m.- mid. |
| WSB 740 Atlanta, Ga., <i>CST.</i> 7 a.m.-mid. | WWNC 670 Asheville, N. C., <i>CST.</i> 7 a.m.-mid. | XETH 840 Puebla, Mex. |
| WSBC 1210 Chicago, Ill. | WWRL 1500 Woodside, N. Y., <i>EST.</i> 8-9 a.m.; 11 a.m.-noon; 10-mid. | XETM 845 Matamoros, Mex. |
| WSBT 1230 South Bend, Ind., <i>CST.</i> 6-7:30 a.m.; 10:15 a.m.-noon; 3-5:30 p.m. | WWSW 1500 Pittsburgh, Pa., <i>EST.</i> 8 a.m.-1:30 p.m.; 3-11:30 p.m. | XETR 610 Mexico City, Mex. |
| WSEN 1210 Columbus, Ohio, <i>EST.</i> 8 a.m.-11 p.m. | WWVA 1160 Wheeling, W. Va., <i>EST.</i> 7:30 a.m.-9 p.m. | XETU 890 Pachuca, Mex. |
| WSFA 1410 Montgomery, Ala., <i>CST.</i> 6 a.m.-9 p.m. | WXYZ 1240 Detroit, Mich., <i>EST.</i> 7:30 a.m.-mid. | XETW 830 Mexico City, Mex. |
| WSIX 1210 Springfield, Tenn., <i>CST.</i> 6 a.m.-3 p.m.; 6-9 p.m. | XEA 1000 Guadalajara, Mex., <i>CST.</i> 11 a.m.-noon; 2-3 p.m.; 5-11. | XEU 1010 Veracruz, Mex., <i>CST.</i> 7-8 a.m.; 10-11 a.m.; noon-3 p.m.; 6-mid. |
| WSJS 1310 Winston-Salem, N. C. 8 a.m.-mid., <i>EST.</i> | XEAN 750 Juarez, Mex., <i>MST.</i> 9 a.m.-2 p.m.; 5-11 p.m. | XEW 910 Mexico City, Mex., <i>CST.</i> 10 a.m.-mid. |
| WSM 650 Nashville, Tenn., <i>CST.</i> 6:30 a.m.-mid. | XEAW 965 Reynosa, Mex. | XEX 1210 Mexico City, Mex. |
| WSMB 1320 New Orleans, La., <i>CST.</i> 7 a.m.-mid. | XEB 1030 Mexico City, Mex., <i>CST.</i> 8 a.m.-mid. | XFB 840 Jalapa, Mex. |
| | XEC 1000 Toluca, Mex. | XFC 805 Aguascalientes, Mex. |
| | XED 1155 Guadalajara, Mex. | XFG 638.3 Mexico City, Mex. |
| | XEF 735 Villa Acuna, Mex. 24 hours daily. | XFI 818.1 Mexico City, Mex. |
| | XEFA 1250 Mexico City, Mex. | XFO 940 Mexico City, Mex. |
| | | XFX 860 Mexico City, Mex. |
| | | YV1BC 980 Caracas, Venez. 11 a.m.-1:30 p.m.; 5:45-10:30 p.m. |
| | | 10-AB 1200 Moose Jaw, Sask., <i>MST.</i> 5:30-7 p.m. |
| | | 10-AK 1200 Stratford, Ont., <i>EST.</i> 6-8 p.m. |
| | | 10-AT 1155 Trail, B. C. |
| | | 10-BI 1200 Prince Albert, Sask. Noon-1 p.m.; 6-8 p.m., <i>MST.</i> |
| | | 10-BP 1195 Wingham, Ont., <i>EST.</i> Silent. |
| | | 10-BQ 1200 Bramford, Ont., <i>EST.</i> 8-10 p.m. |
| | | 10-BU 1200 Canora, Sask. |

Trans-Pacific Broadcasting Stations by Frequencies—*With Their Time on the Air*

Note—In some cases the power is figured differently than is the rule in the United States, making it four or five times as much as American stations of the same wattage.

| Kcs. | Call | Power | City and Country | Zone |
|------|---|-------|----------------------------|------|
| 855 | 2BL | 5000 | Sydney, N. S. W. | 46 |
| | National Broadcasting Station, 96-98 Market St., Daily, 9:45 a.m.-Midn.; Sun., 12:30 p.m.-4:30 p.m., 6-9:30, 8-11:30 | | | |
| 870 | JOAK | 10000 | Tokyo, Japan | 44 |
| 880 | 6PR | 200 | Perth, W. Aus. | 42 |
| | Nicholsons Ltd., Barrack St., daily, 8 p.m.-2 a.m.; Sun. 10 p.m.-1:30 a.m. | | | |
| 890 | 7HO | 50 | Hobart, Tas. | 46 |
| | Commercial Broadcasters, Ltd., 82 Elizabeth St., daily, 7:30 p.m.-Midn.; Sun. 9:30 p.m.-11 p.m. | | | |
| 900 | ZEP | 500 | Wairoa, Hawke's Bay, N. Z. | 49 |
| | E. A. Perry, 128 Queen St., daily, ex. Tues. 7 a.m.-9 a.m.; Tues. 7 a.m.-9 a.m.; 6-10:30 p.m. | | | |
| 910 | 4RK | 2000 | Rockhampton, Queens. | 46 |
| | National Broadcasting Station. Relays 4QG. | | | |
| 920 | JOQK | 500 | Nugata, Japan | 44 |
| 930 | 3UZ | 500 | Melbourne, Vict. | 46 |
| | Oliver J. Nilsen & Co., 45 Bourke St., daily, 9 a.m.-12:30 a.m.; Sun. 7:15 p.m.-11:15 p.m. | | | |
| 950 | 2GB | 3000 | Sydney, N. S. W. | 46 |
| | Theosophical Broadcasting Station, 29 Bligh St., daily, 8:30 a.m.-12:45 a.m.; Sun., 8:30 a.m.-11:30 p.m. | | | |
| 960 | JOOK | 300 | Kyoto, Japan. | 44 |
| 960 | 5DN | 500 | Adelaide, S. Aus. | 45 |
| | Hume Broadcasters, Ltd., Franklin St., Parkside, Mon. to Fri., 6 p.m.-1:20 a.m.; Sat., 7:30 p.m.-1 a.m.; Sun., 10-11:30 p.m. | | | |
| 970 | 3BO | 200 | Bendigo, Vict. | 46 |
| | Amalgamated Wireless, Ltd., Kangaroo Flat, daily, 9 p.m.-mid.; Sun., 8:30-10:30 p.m. | | | |
| 980 | 3YA | 500 | Christchurch, N. Z. | 49 |
| | National Broadcasting Service, daily, 10 a.m.-10 p.m.; Tues. and Wed., till 11 p.m.; Sat., 3-11 p.m.; Sun., 2-10 p.m. | | | |
| 1000 | 4GR | 50 | Toowoomba, Queens. | 46 |
| | Gold Radio Service, Ruthven St., daily, 7:30-11:30 p.m.; Sun., 8:30-11:30 p.m. | | | |
| 1010 | 3HA | 200 | Hamilton, Vict. | 46 |
| | Western Province Radio Co., 37 Gray St., daily, 8 p.m.-mid.; Sun., 8:30 p.m.-mid. | | | |
| 1025 | ZUE | 1000 | Sydney, N. S. W. | 46 |
| | Radio House, 617 George St., daily, 8:30 a.m.-1:30 p.m.; 7:15-mid.; Sun., 11:30 a.m.-1:30 p.m.; 9:30-11:45 p.m. | | | |
| 1041 | 5PI | 50 | Port Pirie, S. Aus. | 45 |
| | Midland, Ellen St., daily 7:30 p.m.-mid. | | | |
| 1050 | 2CA | 50 | Canberra, N. S. W. | 46 |
| | A. J. Ryan, Kingston, daily 9-11:30 p.m.; Sun., 9:30-11:30 p.m. | | | |
| | 2ZF | 150 | Palmerston North, N. Z. | 49 |
| | Manawatu Radio Club, King St., Mon., Thur., Sat., 8 p.m.-10 p.m.; Wed., 6:30 p.m.-10 p.m.; Fri., 7 p.m.-10 p.m.; Sun., 7 p.m.-9:30 p.m. | | | |
| 1050 | 2ZO | 200 | Palmerston North, N. Z. | 49 |
| | J. V. Kyle, 50 Waldegrave St., Tues., 7 p.m.-9:30 p.m.; Sat., 1 p.m.-2:30 p.m.; Sun., 10 a.m.-12:30 p.m. | | | |
| 1060 | 4MB | 50 | Maryborough, Queens. | 46 |
| | Maryborough Brdcast. Co., Wynnes' Station. | | | |
| 1070 | 2KY | 1500 | Sydney, N. S. W. | 46 |
| | Trades & Labor Council, Goulburn St., daily, 7:30-mid.; Sun., 8:30-mid. | | | |
| 1080 | 3SH | 50 | Swan Hill, Vict. | 46 |
| | Swan Hill Brdcast. Co., daily, 9-11:30 p.m.; Sun., 5:45-11:30 p.m. | | | |
| | 4ZF | 10 | Dunedin, N. Z. | 49 |
| | Laidlaw & Gray, Ltd., 123 George St., daily, 9-9:55 a.m.; 1-2 p.m.; Mon., 3-5 p.m.; Tues., 6-7:30 p.m.; Wed., 3-5 p.m.; 11-mid.; Sun., 5-6 p.m. | | | |
| | 4ZB | 20 | Dunedin, N. Z. | 49 |
| | Otago Radio Assn., 182 Rattray St., Wed., 6:30-11 p.m.; Thur., 6-11 p.m.; Sun., 10 a.m.-noon. | | | |
| 560 | 2CO | 7500 | Corowa, N.S.W. | 46 |
| | National Broadcasting Station, relaying 3LO and 3AR. | | | |
| 580 | 7ZL | 3000 | Hobart, Tasmania | 46 |
| | National Broadcasting Service, Elizabeth Street, Daily: 12:30-3:30 p.m., 7:30 p.m.-12:30 a.m., Suns., Noon-1 p.m., 4:30-6 p.m., 9:30-11:30 p.m. | | | |
| 590 | JOAK | 10000 | Tokyo, Japan | 44 |
| 600 | 2ZK | 120 | Wanganui, N. Z. | 49 |
| | D. A. Morrison & Co., Victoria Ave., Mon. to Fri., 7-8 p.m. | | | |
| 610 | 3AR | 5000 | Melbourne, Victoria | 46 |
| | National Broadcasting Station, 120A Russell St., Daily: 9-45 a.m.-Midn.; Sats., to 1 a.m., Suns., 12:30-11:30 p.m. | | | |
| 625 | JOTK | 500 | Matsue, Japan | 44 |
| 630 | 1ZH | 45 | Hamilton, N. Z. | 49 |
| | G. S. Anchor, 165 Victoria St., Mon., Thur., Fri., Noon-1; 8-10 p.m., Tue., Noon-1; 7:30-10 p.m., Wed., Noon-1 p.m. | | | |
| 635 | JONK | 500 | Nagano, Japan | 44 |
| | 5CK | 7500 | Crystal Brook, S. Aus. | 45 |
| | National Broadcasting Station, Relays 5CL. | | | |
| 645 | JOUK | 300 | Akita, Japan | 44 |
| | 3QAK | 500 | Dairen, Manchuria | 42 |
| 650 | 4YA | 500 | Dunedin, N. Z. | 49 |
| | National Broadcasting Service, Stuart St., almost continuous, 10 a.m.-10 p.m. week days; till 11 p.m., Mons., Thurs.; Sat. 3-11 p.m.; Sun. 2-10 p.m. | | | |
| 665 | 2FC | 5000 | Sydney, N. S. W. | 46 |
| | National Broadcasting Station, 96-98 Market St., Daily, 9:30-9:45 a.m., Noon-1 p.m., almost continuous. Suns., 12:30-2 p.m., 4:30-6, 7:30-Midn. | | | |
| 670 | JFAK | 10000 | Taihoku, Formosa | 42 |
| 680 | JOLK | 500 | Fukuoka, Japan | 44 |
| | JOVK | 500 | Hakodate, Japan | 44 |
| | XGOA | 75000 | Nanking, China | 42 |
| 690 | 6WF | 5000 | Perth, W. Aus. | 42 |
| | National Broadcasting Station, Hay St., Daily, 9:30 p.m.-2:30 a.m.; Sun., same | | | |
| | JODK | 1000 | Keijo, Korea | 44 |
| 700 | JOJK | 5000 | Okayama, Japan | 44 |
| 710 | JOJK | 3000 | Kanazawa, Japan | 44 |
| 720 | 2YA | 5000 | Wellington, N. Z. | 49 |
| | National Broadcasting Service, Featherston St., Mon. and Fri., 10 a.m.-11 p.m.; Tue., Wed., Thur., 10 a.m.-10 p.m., Sat., 3-11 p.m., Sun., 2-4:30 p.m., 6-10 p.m. | | | |
| | JORK | 500 | Kochi, Japan | 44 |
| 730 | 5CL | 5000 | Adelaide, S. Aus. | 45 |
| | National Broadcasting Station, Hindmarsh Sq., Daily, 7:50 p.m.-12:30 a.m.; Sun., 5 p.m.-12:30 a.m. | | | |
| 735 | JOSK | 1000 | Kokura, Japan | 44 |
| 750 | JOBK | 10000 | Osaka, Japan | 44 |
| 760 | 4QG | 5000 | Brisbane, Queens. | 46 |
| | National Broadcasting Station, State Ins. Bldg., Daily, 9 a.m.-12:30 a.m.; Sun., Noon-11:30 p.m. | | | |
| 770 | JOHK | 10000 | Sendai, Japan | 44 |
| 778 | JOJK | 500 | Shidzuoka, Japan | 44 |
| 790 | JOGK | 10000 | Kumamoto, Japan | 44 |
| 800 | 3LO | 5000 | Melbourne, Vict. | 46 |
| | National Broadcasting Station, 120A Russell St., Daily, 8:30 a.m.-1 a.m.; Sun. 11:30 a.m.-Midn. | | | |
| 810 | JOCK | 10000 | Nagoya, Japan | 44 |
| 820 | 1YA | | Auckland, N.Z. | 49 |
| | Radio Broadcasting Board, Karangahape Road, Daily, 10 a.m.-10 p.m.; Tue. and Wed. until 11 p.m.; Sat., 3-11 p.m.; Sun., 2-10 p.m. | | | |
| 830 | JOIK | 10000 | Sapporo, Japan | 44 |
| 850 | JOJK | 10000 | Hiroshima, Japan | 44 |

Kcs. Call Power City and Country Zone

42M 45 Dunedin, N. Z. 49
McCracken & Walls, 17 George St., daily ex. Tues., 10-11:45 a.m.; Tues, 10-11:45 a.m.; 3-5; 7:30-11 p.m.; Sun., 2-5 p.m.; 6-10 p.m.

42O 40 Dunedin, N. Z. 49
Barnett's Radio Supplies, Ltd., The Octagon, daily, ex. Fri., noon-1; 5-6 p.m.; Fri., noon-1; 5-6; 7-11 p.m.

42W 50 Dunedin, N. Z. 49
A. E. E. Clarke, 19 Dowling St., Mon., Tues., Wed., and Thur., 2-3 p.m.; Fri., 2-4:30 p.m.; 6-7 p.m.; Sat., 2-3 p.m.; 7-mid.; Sun., noon-2 p.m.

1090 1ZR 80 Auckland, N. Z. 49
Lewis Eady, Ltd., 192 Queen St., daily, ex. Sat., 10:30 a.m.-2 p.m.; Mon., 5-7:30 p.m.; Tues. and Fri., 5-10 p.m.; Wed., 5-8 p.m.; Thurs. and Sat., 5-11 p.m.; Sat., 10:30-1:30 p.m.; 2:30-4 p.m.; Sun., 9-10:30 a.m.; 2:30-4 p.m.; 6-9:30 p.m.

1100 7LA 200 Launceston, Tasm. 46
Findlay & Willis Pty., Ltd., 67 Brisbane St., daily, 7 p.m.-mid.; Sun., 7:30-11:30 p.m.

1110 2HD 200 Newcastle, N. S. W. 46
Airsales Building Co., Civic Centre, daily, 7:30 p.m.-11:45 p.m.; Sun., 8:30-10:30 p.m.

1111 JFBK 1000 Tainan, Japan. 44

1120 2ZW 400 Wellington, N. Z. 49
2ZW Brdcastg. Service, Ltd., 89 Willis St., Mon. and Tues., 7-8:30 a.m.; 10 a.m.-2 p.m.; 7-11 p.m.; Wed., 7-8:30 a.m.; 10 a.m.-2 p.m.; 5-6 p.m.; 7-11 p.m.; Thurs., 7-8:30 a.m.; 10 a.m.-2 p.m.; 3-4:15 p.m.; 5-6 p.m.; 7-11 p.m.; Fri., 7-8:30 a.m.; Sat., 7-8:30 a.m.; 10 a.m.-2 p.m.; 7 p.m.-mid.; Sun., 11 a.m.-noon; 6:30-10 p.m.

1125 2UW 1500 Sydney, N. S. W. 46
Radio Broadcasting, Ltd., Palings Bldg., Ash St., daily 9 a.m.-mid.; Sun., noon-mid.

1135 6ML 300 Perth, W. Aus. 42
Musgroves, Ltd., Lyric House, Murray St., daily, 9:15 p.m.-1:30 a.m.; Sun., 10:30 p.m.-1:30 a.m.

1145 3VB 25 Melbourne, Vict. 46
Mobile Brdcastg. Service, 430 Little Collins St., daily, 8:30 p.m.-mid.

4BC 600 Brisbane, Queens. 46
J. B. Chandler & Co., 43 Adelaide Road, daily, 8:30 a.m.-1:30 a.m.; Sat. and Sun., 7:15 p.m.-11:30 p.m.

1150 2ZJ 75 Gisborne, N. Z. 49
G. T. C. Hands, 229 Gladstone Road, M. O. P. A., Mon. and Sat., 2:30-4:30 p.m.; 7-8 p.m.; Tues., noon-1:30 p.m.; 7-8 p.m.; Wed., noon-1:30 p.m.; 7-8 p.m.; 8:15-10 p.m.; Thurs., 7-8 p.m.; Fri., 4-5:15 p.m.; 7-8 p.m.; 8:15-10 p.m.

22M 110 Gisborne, N. Z. 49
Atwater Kent Radio Service, Ltd., 258 Gladstone Road, M. O. P. A., Mon., Fri. and Sat., 6:45-7:45 a.m.; 12:30-1 p.m.; Tues., 6:45-7:45 a.m.; 2:30-4:30 p.m.; Wed., 6:45-7:45 a.m.; Thurs., 6:45-7:45 a.m.; 12:30-1 p.m.; 7-10 p.m.; Sun., 12:30-1 p.m.; 7-10 p.m.

1155 2WG 50 Wagga, N. S. W. 46
Riverina Brdcastg. Co., 16 Fitzmaurice St., daily, 8:30-11:30 p.m.

1160 4ZP 125 Invercargill, N. Z. 49
R. T. Parsons, 155 Laysard St., Mon., Tues. and Thurs., 10 a.m.-noon; 1-4 p.m.; 5-10 p.m.; Wed., 10 a.m.-noon; 1-4 p.m.; 5-8 p.m.; Fri., 10 a.m.-noon; 1-4 p.m.; 5-11 p.m.; Sat., 10 a.m.-noon; 2-4 p.m.; 5-8 p.m.; 10:15 p.m.-mid.; Sun., 11 a.m.-noon; 6:30-10 p.m.

4ZI 8 Invercargill, N. Z. 49
G. C. Batchelor, 130 Dee St.

1170 4TO 100 Townsville, Queens. 46
Amalgamated Wireless Ltd., daily, 8-8:30 p.m.; 9-11:45 p.m.; Sun., silent.

1180 3DB 500 Melbourne, Vict. 46
Broadcasting Station Pty., 36 Flinders St., daily, 8:30 a.m.-12:15 a.m.; Sun., 7:30 a.m.-11:15 p.m.

22D 2.5 Masterton, N. Z. 49
W. D. Ansell, 7 Rimu St., daily, 7:30-9 a.m.; 7-10 p.m.; Sat., 7-10:30 p.m.; Sun., 8-10 p.m.

Kcs. Call Power City and Country Zone

1190 4MK 100 Mackay, Queens. 46
Williams' Agencies, Ltd., P. I. Box 165, daily, 8:30-11:45 p.m.; Sun., 8:30-11 p.m.

1ZQ 25 Auckland, N. Z. 49
Atwaters Piano Co., Ltd., Civic Square, daily, 8 a.m.-10:30 p.m.; Sun., 4-6 p.m.; 7:30-10 p.m.

1200 5KA 300 Adelaide, S. Aus. 45
Sport Radio Brdcastg. Co., 81 Flinders St., daily, 4:45 p.m.-12:15 a.m.; Sun., 5-6 p.m.; 9-11:30 p.m.

3ZC 250 Christchurch, N. Z. 49
N. Z. Farmers Cooperative Assn. of Canterbury, Ltd., 212-226 Cashel St., Mon., noon-2 p.m.; 8-10 p.m.; Tues., 10-11:30 a.m.; noon-2 p.m.; 2:30-4 p.m.; 5:30-10:30 p.m.; Wed., 10-11:30 a.m.; 5:30-10 p.m.; Thurs., 10-11:30 a.m.; noon-2 p.m.; 6:15-7:15 p.m.; 8-10 p.m.; Fri., noon-2 p.m.; Sat., 5:30-11 p.m.; Sun., 10-11:30 a.m.; 6:15-7:15 p.m.; 8-10 p.m.

1210 2GH 1000 Sydney, N. S. W. 46
Council of Churches, 77 York St., daily, 11:30 a.m.-mid.; Sun., 11:30 a.m.-1:30 p.m.

1210 2ZE 10 Eketahuna, N. Z. 49
G. R. S. Allen, Main St., Sun., 4:30-6 p.m.

1220 6KG 100 Kalgoolie, W. Aus. 42
Goldfields Broadcasters, Ltd., Bourke St., daily, 3 p.m.-1:30 a.m.

4ZL 100 Dunedin, N. Z. 49
Radio Service, Ltd., 243 McAndrews Road, Mon., 7-9 a.m.; 7:30-11 p.m. Tues., Wed., and Fri., 7-9 a.m.; Thurs. and Sat., 7-9 a.m.; 3-5 p.m.; Sun., 8-10 a.m.

1230 2YB 100 New Plymouth, N. Z. 49
North Taranaki Radio Society, Empire Bldg., King St., Mon., 7-10 p.m.; Wed., 6:30-10 p.m.; Sat., 6:30-10 p.m.; Sun., 6-6:45 p.m.; 7-10 p.m.

1245 2NC 2000 Newcastle, N. S. W. 46
National Brdcastg. Service, relays 2FC and 2BL

1260 3WR 50 Wangaratta, Vict. 46
Wangaratta Brdcastg. Pty., Ltd., Reid St., Mon., to Sat., 7:30-11:30 p.m.; Sun., 9:30-11:15 p.m.

1ZM 10 Auckland, N. Z. 49
V. V. Rodgers, Massey Road, Manurewa, Mon., 9-11:30 a.m.; 2-5 p.m.; 7-10 p.m.; Tues., Wed., Thurs. and Fri., 9-11:30 a.m.; 7-8 p.m.; Sat., 9 a.m.-2 p.m.; 7-8 p.m.; Sun., 10 a.m.-noon; 1-3 p.m.; 4-6 p.m.; 8:30-11 p.m.; Holidays, 8 a.m.-noon.

1270 2SM 1000 Sydney, N. S. W. 46
Catholic Brdcastg. Co., Carrington St., daily, 8:30-10 a.m.; 2:30-3:30 p.m.; 7-mid.; Sun., 12:30-3 p.m.; 7:30-11:45 p.m.

1280 3TR 50 Trafalgar, Vict. 46
Gippsland Brdcastg. Service, P. O. Box 89, daily, 7:30-11:45 p.m.; Sun., 8:30-11:30 p.m.

4ZC 20 Otago, N. Z. 49
John I. Bilton, Lowburn Ferry, Cromwell, Mon., Tues., Wed. and Fri., noon-1:30 p.m.; Thurs., noon-1:30 p.m.; 7-10 p.m.; Sat., noon-1:30 p.m.; 5:30-7 p.m.; Sun., 9-11 a.m.

1290 4BK 200 Brisbane, Queens. 46
Brisbane Brdcastg. Co., King House, Queen St., Mon. to Fri., 6 p.m.-12:30 a.m.; Sat., 7:15 p.m.-12:30 a.m.; Sun., 8:30-11:30 p.m.

2ZB 7.5 Napier, N. Z. 49
T. H. Boston, 116 Wellesley Road, Mon., Thurs. and Sat., 6-7 p.m.; Sun., 10:30 a.m.-noon.

2ZH 65 Napier, N. Z. 49
G. B. Hansen & Co., 59 Latham St., Mon., Tues. and Fri., noon-2 p.m.; 7-10:30 p.m.; Wed., noon-2 p.m.; 6:20-10:30 p.m.; Thurs., noon-2 p.m.; Sat., 10 a.m.-5 p.m.; 7-11 p.m.; Sun., noon-3 p.m.; 6:30-10 p.m.

1300 3BA 50 Ballarat, Vict. 46
Ballarat Broadcasters Pty., Ltd., Sturt St., daily, 8:30-mid.; Sun., 8-11:30 p.m.

3ZE 50 Greymouth, N. Z. 49
Schaeff's Ltd., Mackay St., Mon. and Wed., 12:30-1:30 p.m.; Fri., noon-2 p.m.; Sat., 9:15-11 p.m.

| Kcs. | Call | Power | City and Country | Zone | Kcs. | Call | Power | City and Country | Zone |
|-------------|---|-------|----------------------|------|---|---|-------------------|-----------------------|------|
| | 3ZR | 80 | Greymouth, N. Z. | 49 | 1380 | 4BH | 200 | Brisbane, Queens. | 46 |
| | West Coast Radio Society, Bright St., Cobden, Mon to Fri., 7-9 a.m.; 6-10 p.m.; Sat., 7-9 a.m.; 3-5 p.m.; 6-9 p.m.; Sun., noon-1:30 p.m.; 3-9 p.m. | | | | | Broadcasters, Ltd., 90-92 Queen St., daily, 7:30 p.m.-mid.; Sat., to 12:30 a.m.; Sun., 8:30-11:30 p.m. | | | |
| 1310 | 5AD | 300 | Adelaide, S. Aus. | 45 | 1390 | 2GN | 50 | Goulburn, N. S. W. | 46 |
| | Advertiser Newspaper, Ltd., Weymouth St., daily, 8 p.m.-1 a.m.; Sun., 7:30-mid. | | | | | Goulburn Brdcastg. Co., Auburn St., Tues. and Thurs., 8-8:30 p.m.; 9:30-11:30 p.m.; Sat., 8 p.m.-mid.; Sun., 9:30-11 p.m. | | | |
| 1320 | 2MO | 50 | Gunndah, N. S. W. | 46 | 1400 | 3GL | 50 | Geelong, Vict. | 46 |
| | M. J. Oliver, P. O. Box 78, daily, 8:30-10:30 p.m.; Sun., 9:30-11:30 p.m. | | | | | Geelong Brdcastg. Pty. Ltd., Nat'l Mutual Bldg., daily, 7 p.m.-mid.; Sun., 8:30-11:30 p.m. | | | |
| | 1ZJ | 26 | Auckland, N. Z. | 49 | 1415 | 2ZL | 200 | Hastings, N. Z. | 49 |
| | Johns, Ltd., Chancery St., Tues. and Thurs., noon-2 p.m.; Wed., 7:30-9:30 p.m. | | | | | Lockyer's Radio Stores, Ltd., 815 Lawrence St., Thurs., 6:30-10 p.m. | | | |
| 1330 | 4RO | 250 | Rockhampton, Queens. | 46 | 1435 | 2KO | 200 | Newcastle, N. S. W. | 46 |
| | Rockhampton Brdcastg. Co., daily, 7:30-11:30 p.m. | | | | | Newcastle Brdcastg. Co., 57 Hunter St., daily, 8-11:30 p.m.; Sun., 8:30-10:30 p.m. | | | |
| | 2ZI | 15 | Hastings, N. Z. | 49 | 1420 | 1ZB | 20 | Auckland, N. Z. | 49 |
| | Sutcliffe, Ltd., Heretaunga St. | | | | | La Gloria Gramophones, Ltd., 157 Karangahape Road, Mon., 7:30-10 p.m.; Wed., 8-10 p.m. | | | |
| 1340 | 2XN | 50 | Lismore, N. S. W. | 46 | 1ZS | 5 | Auckland, N. Z. | 49 | |
| | G. W. Exton, P. O. Box 138b, daily, 8-10 p.m.; Sun., church services. Occasionally relays 4BK. | | | | | McCabe's Radios, Mon. to Fri., 7:30-9 a.m.; 2-3 p.m.; Sat., 7:30-9 a.m. | | | |
| | 4ZK | 5 | Otago, N. Z. | 49 | 1425 | 3AW | 300 | Melbourne, Vict. | 46 |
| | B. R. Renton & C. G. Clark, Clyde St., Baldutha, Thurs., 8-11 p.m.; Fri., 2-3 p.m.; Sun., 10 a.m.-noon; 6-8:30 p.m. | | | | | Vogue Brdcastg. Co. Ltd., His Majesty's Theatre, daily 4 p.m.-12:30 a.m.; Sat., till 1 a.m.; Sun., 6 p.m.-mid. | | | |
| 1350 | 3KZ | 200 | Melbourne, Vict. | 46 | 1435 | 2WL | 50 | Woollongong, N. S. W. | 46 |
| | 3KZ Broadcasting Station, 40 Victoria St., daily, 7:30 p.m.-12:30 a.m.; Sun., 7:30-11:30 p.m. | | | | | Woollongong Brdcastg. Co., 149 Crown St., daily, 8-11:30 p.m.; Sun., 8:30-10:30 p.m. | | | |
| 1360 | 2ZR | 50 | Nelson, N. Z. | 49 | 1480 | 2AY | 50 | Albury, N. S. W. | 46 |
| | N. D. Braithwaite, Begg & Co. Bldg., Trafalgar St., Mon., Tues. and Thurs., noon-2 p.m.; 5-11 p.m.; Wed., noon-2 p.m.; 5-10 p.m.; Sat., on till mid.; Fri., noon-2 p.m.; 5-10 p.m.; Sun., 6-10 p.m. | | | | | Charles Rice, 610 Dean St., daily, 8:30 p.m.-mid.; Sun., 9-11:30 p.m. | | | |
| | | | | | 7UV | 200 | Ulverstone, Tasm. | 46 | |
| | | | | | North Western Tasmanian Broadcasters, Ltd. | | | | |
| | | | | | 1500 | 3AK | 50 | Melbourne, Vict. | 46 |
| | | | | | Akron Broadcasting Service, Ltd., 490 Elizabeth St., Mon. to Fri., 1-3:30 a.m.; Sat., mid-4:30 a.m.; Sun., 11:30 p.m.-1:30 a.m. | | | | |

One Hundred Best Short Wave Stations

By Frequencies and Wave Lengths

Submitted by our readers as being most regularly received. Times are given in Eastern Standard. First column gives frequency in megacycles (for kilocycles read the decimal point as a comma) and the second column, wave-lengths in meters.

For complete lists of short-wave stations see the following issues of this magazine:

September: Foreign stations arranged by countries.

October: Complete list by frequencies and waves.

November: American stations by states.

December: Canadian stations by provinces and Complete list by call letters.

Broadcast B. Phone P.

| | | | | | | | |
|-------|--------|--|---|-------|-------|--|---|
| 2.735 | 109.62 | VE9CI London, Ontario. Daily 9-11 p.m.; Sun. 11 a.m.-7 p.m. | B | 6.050 | 49.56 | GSA Daventry, England. To Canada 8-10 p.m. | B |
| 3.998 | 75.00 | HCBJ Quito, Ecuador. 7:30-9:45 a.m. | B | 6.057 | 49.50 | CMCI Havana, Cuba, 9-11 p.m. | B |
| 4.273 | 70.65 | RV15 Khabarovsk, USSR 3 a.m.-9 a.m. | B | 6.060 | 49.48 | VQ7LO Nairobi, Kenya, 11 a.m.-3:30 p.m.; Tues. 3-4 a.m.; Thur. 8-9 a.m. | B |
| 4.283 | 70.00 | ICEJ S. S. "Rex" | P | 6.060 | 49.48 | W3XAL Cincinnati, O. Relays WLW 6-10:30 a.m.; 1:30-3:30 p.m.; 7 p.m.-1:30 a.m. | B |
| 4.792 | 62.56 | VE9BY London, Ontario, Sat. midn.-1 a.m. | B | 6.070 | 49.39 | VE9CS Vancouver, B. C., Fri. 12:30-1:45 a.m.; Sun. 11 a.m.-7 p.m. | B |
| 4.975 | 60.27 | GBG Rugby, England. Phones ships irregularly | P | 6.076 | 49.34 | W9XAA Chicago, Ill., Sun. 11 a.m.-9 p.m. | B |
| 5.045 | 59.42 | VRT-ZFA Hamilton, Bermuda. Phones WNB-GMBJ nights | P | 6.090 | 49.23 | VE9BJ St. John, N. B., 5 p.m. and 11 p.m. | B |
| 5.144 | 58.33 | DIQ Nauen, Germany | B | 6.092 | 49.22 | VE9GW Bowmanville, Ont., 5-11 p.m.; Sun. 1-7 p.m. | B |
| 5.766 | 52.00 | XAM Merida, Yucatan. Tests XDA 10 a.m. 8 p.m. irreg. | P | 6.095 | 49.18 | W9XF Chicago, Ill., 4:30-8 p.m.; 9:30 p.m.-2 a.m. | B |
| 5.879 | 51.00 | XDA Mexico City. Tests XAM 10 a.m. 8 p.m. irreg. | P | 6.096 | 49.17 | W3XAL Boundbrook, N. J., Sat. 4:30 p.m.-1 a.m. | B |
| 5.925 | 50.60 | HKO Medellin, Colombia, Tues.-Thur.-Sat. 8-10 p.m.-Sun. 6-8 p.m. | B | 6.119 | 49.00 | YV1BC Caracas, Venez. Relays 960 kos. 10:30 a.m.-1 p.m.; 5:15-10 p.m. | B |
| 5.968 | 50.26 | HVJ Vatican City, 2-2:15 p.m.; Sun. 5-5:30 a.m. | B | 6.125 | 48.95 | YV1BMO Maracaibo, Venez., 8-11 p.m. | B |
| 5.996 | 50.00 | HKD Barranquilla, Col., 8-10 p.m. | B | 6.140 | 48.83 | W8XK Pittsburgh, Pa. Relays KDKA 4-11 p.m. | B |
| 6.005 | 49.93 | VE9DR Drummondville, Que., 7 p.m.-mid. | B | 6.335 | 47.35 | VE9AP Drummondville, Que. | B |
| 6.036 | 49.67 | W4XB Miami, Fla. Reported 5-11 p.m. | B | | | | |

| | | | | | | | |
|--------|-------|--|---|--------|-------|---|---|
| 6.386 | 46.96 | W3XL Boundbrook, N. J. Experimental | B | 11.760 | 25.50 | XDA Mexico City. Tests XAM 1 p.m. and | P |
| 6.426 | 46.65 | VE9BY London, Ontario, Wed. 8:30-9:30 | B | 11.780 | 25.44 | 6 p.m. | P |
| 6.611 | 45.35 | TGW Guatemala City, Sat. 8-11 p.m. | B | 11.800 | 25.40 | VE9DR Drummondville, Que. | B |
| 6.618 | 45.31 | 10:30 p.m.-mid. | B | | | I2RO Rome, Italy, 11 a.m.-12:30 p.m.; | B |
| 6.648 | 45.10 | PRADO Riobamba, Ecuador, Thur. 9-11 | P | 11.865 | 25.27 | 2:30-5:30 p.m. | B |
| 6.675 | 44.91 | p.m. | B | 11.872 | 25.25 | GSE Daventry, England, To India 9:30- | B |
| 6.888 | 43.54 | LQZ, Coltano, Italy. Testing irregularly | P | | | 11:30 a.m. | B |
| 7.139 | 42.00 | DKG Nauen, Germany. Heard 9 p.m. with | P | 11.898 | 25.20 | W8XK Pittsburgh, Pa. Relays KDKA | B |
| 7.312 | 41.03 | WBJ | P | | | 4-10 p.m. | B |
| 7.518 | 39.89 | KEQ Kahuku, Hawaii. Phones California | B | 12.000 | 24.98 | FYA Paris, France, 11:30 a.m.-2:30 p.m. | P |
| 7.610 | 39.40 | nights | B | 12.490 | 23.81 | (Pontoise) | B |
| 7.790 | 38.49 | HJ4ABB Manizales, Colombia, Sat. 10 | P | 12.780 | 23.46 | FZS Saigon, Indo-China, 9-10 a.m. | P |
| 8.180 | 36.65 | p.m.-mid. | B | 12.820 | 23.38 | DAN Norden, Germany. Talks to ships | P |
| 8.566 | 35.00 | CM5RY Matanzas, Cuba, Sat. 10:45-11:30 | B | | | GBC Rugby, England. Phones ships irregu- | P |
| 8.645 | 34.68 | p.m. | B | 13.074 | 22.93 | larly | B |
| 8.950 | 33.50 | KDK-KKH Kahuku, Hawaii, 9 p.m. and | P | 13.296 | 22.55 | CNR Rabat, Morocco, Sun. 7:30 a.m.- | B |
| 9.012 | 32.27 | 2 a.m. | P | 13.500 | 22.09 | 9 a.m. | B |
| 9.278 | 32.32 | HJ3ABF Bogota, Colombia, 7 p.m.-11 p.m. | B | 13.816 | 21.70 | J1AA Tokyo, Japan. Phones, experimental | B |
| 9.492 | 31.58 | HBP Geneva, Switzerland, Sun. 5-5:45 p.m. | B | | | CGA Drummondville, Que., 9 a.m.-2 p.m. | P |
| 9.553 | 31.55 | 9:50 a.m.; Sat. 5-7 a.m. | B | 13.816 | 21.70 | GBB Rugby, England. Talks Canada day- | P |
| 9.510 | 31.53 | PSK Rio de Janeiro, Brazil. Reported work- | P | 14.450 | 20.75 | times. | B |
| 9.520 | 31.49 | ing WOK | P | 14.550 | 20.60 | SUZ Cairo, Egypt, 7 a.m. and 3:30 p.m. | P |
| 9.530 | 31.46 | ICRJ S. S. "Rex" | P | 14.550 | 20.60 | GBW Rugby, England, 6 a.m. and 6 p.m. | P |
| 9.552 | 31.38 | VE9BV London, Ontario, Mon. 3-4 p.m. | B | 14.550 | 20.60 | HBJ Geneva, Switzerland | P |
| 9.555 | 31.37 | TGX Guatemala City, Sat. 10 p.m.-mid. | B | 14.682 | 20.42 | RXC Panama City. Afternoons | P |
| 9.560 | 31.36 | KEJ Bolinas Calif. Tests irregularly | P | 14.760 | 20.32 | PSS Rio de Janeiro, Brazil, 5-6 p.m. | P |
| 9.570 | 31.33 | CNR Rabat, Morocco, Sun. 3 p.m.-6 p.m. | B | 14.796 | 20.27 | HJB Bogota, Colombia, 11 a.m.-5 p.m. | P |
| 9.580 | 31.30 | PLW Bandong, Java. Phones Australia | P | 15.066 | 19.90 | 1-5 p.m. | P |
| 9.585 | 31.28 | 3-8 a.m. irreg. | B | 15.120 | 19.83 | T14NRH Heredia, Costa Rica, Sat.-Sun. | B |
| 9.585 | 31.28 | PRBA Rio de Janeiro, Brazil, 6-6:15 p.m. | B | | | 11-noon | B |
| 9.592 | 31.25 | VK3ME Melbourne, Australia, Wed. 5-6:30 | B | 15.140 | 19.81 | HVJ Vatican City, 5-5:15 a.m. | B |
| 9.670 | 31.00 | a.m.; Sat. 5-7 a.m. | B | 15.190 | 19.73 | GSF Daventry, England | B |
| 9.862 | 30.40 | GSB Daventry, England. To Canada 8-10 | B | 15.204 | 19.72 | DJB Zeesen, Germany, 8 a.m.-noon | B |
| 9.862 | 30.40 | p.m. | B | | | W8XX Pittsburgh, Pa. Relays KDKA | B |
| 9.895 | 30.30 | OXY Skamlebaek Denmark, 2-6:30 p.m. | B | 15.234 | 19.68 | 9 a.m.-4 p.m. | B |
| 9.928 | 30.20 | W2XAF Schenectady, N. Y., 5:15-11 p.m. | B | | | FYA Paris, France, 8 a.m.-11 a.m. (Pon- | B |
| 10.060 | 29.80 | Sat.-Sun., 4-11 p.m. | B | 15.320 | 19.57 | toise) | B |
| 10.090 | 29.70 | DJA Zeesen, Germany, 2 p.m.-6:30 p.m. | B | 15.410 | 19.46 | W2XAD Schenectady, N. Y. Daily 1-3 | B |
| 10.212 | 29.35 | VE9DR Drummondville, Que. | B | | | p.m.; Sat.-Sun. to 4 | B |
| 10.246 | 29.26 | W1XAZ Springfield, Mass., 4 p.m.-12:30 | B | 15.760 | 19.02 | KWO Dixon, Calif. Phones Hawaii 2-7 p.m. | P |
| 10.285 | 29.15 | a.m. | B | 16.150 | 18.56 | J1AA Tokyo, Japan. Phones experimental | B |
| 10.340 | 28.99 | SRI Poznan, Poland, Tues. 6 a.m.-8 a.m. | B | 16.150 | 18.56 | GBX Rugby, England, 4 p.m. and 11 p.m. | P |
| 10.830 | 27.68 | HBL Geneva, Switzerland, Sun. 5-5:45 p.m. | B | 17.080 | 17.55 | GBC Rugby, England. Talks with ships | P |
| 11.174 | 26.83 | 6 a.m. | P | | | irregularly | B |
| 11.530 | 26.00 | GSC Daventry, England | B | 17.770 | 16.90 | GSF Daventry, England. To India 9:30- | B |
| 11.644 | 25.75 | VK2ME Sydney, Australia, Sun. 1-2 a.m. | B | | | 11:30 a.m. | B |
| 11.680 | 25.67 | 5-9 a.m.; 9:30-11 a.m. | B | 17.772 | 16.87 | W3XAL Boundbrook, N. J., 8 a.m.-4 p.m. | B |
| 11.710 | 25.60 | CT1AA Lisbon, Portugal, Tues.-Fri., 5-7 | B | 17.930 | 16.82 | POV Kootwijk, Holland, 6-9 a.m. | P |
| 11.710 | 25.60 | p.m. | B | 18.170 | 16.50 | PMC Bandong, Java, 3:30-9 a.m. | P |
| 11.750 | 25.51 | 9:11 a.m.; 3-6 p.m. | B | 18.296 | 16.39 | YVQ Maracaibo, Venezuela. Heard about | P |
| | | 9-11 a.m.; 3-6 p.m. | B | | | 10 a.m. | B |
| | | KWV Dixon, Calif. Phones Hawaii irregu- | P | 18.400 | 16.29 | PCK Kootwijk, Holland. Phones Java | P |
| | | larly | B | | | about 7 a.m. | P |
| | | CT3AQ Funchel, Maderia, Tues.-Thur., | B | 18.444 | 16.25 | HJY Bogota, Colombia, 11 a.m. and 4 p.m. | P |
| | | 5-6:30 p.m.; Sun. 10:30-noon | B | | | | B |
| | | XAM Merida, Yucatan | B | 18.670 | 16.06 | OCI Lima, Peru, 2 p.m. | B |
| | | PPQ Rio de Janeiro, Brazil. Heard testing | B | 18.820 | 15.93 | PLE Bandong, Java, Tues.-Fri. 5:40-10:40 | P |
| | | 6 p.m. | B | | | a.m. | B |
| | | YVQ Maracaibo, Venezuela. Tests Germany | P | 18.958 | 15.82 | LSR Buenos Aires, Arg., 11 a.m. and 4 p.m. | P |
| | | 5-7 p.m. | B | | | | B |
| | | DGT Koenigs wusterhausen | B | 19.270 | 15.57 | PPU Rio de Janeiro, Brazil, 10:30 a.m. and | P |
| | | VE9JR Winnipeg, Manitoba, Tues. 6:30- | B | | | 3:30 p.m. | B |
| | | 8:30 p.m.; Fri. to 9 | B | 19.282 | 15.55 | FTM St. Assise, France, 10 a.m.-2 p.m. | P |
| | | 6:30 a.m. | B | 19.678 | 15.24 | CEC, Santiago, Chile, 11 a.m. and 4 p.m. | P |
| | | | B | 19.684 | 15.23 | EAQ Madrid, Spain. Phones Sat. 1-3 p.m. | B |
| | | | B | 19.895 | 15.07 | LSG Buenos Aires, Argentina, 10:30 a.m.- | P |
| | | | B | | | 3:30 p.m. | B |
| | | | B | 20.028 | 14.97 | DHO Nauen, Germany. Phones LSG | P |
| | | | B | | | 7 a.m.-11 a.m. irregularly | B |
| | | | B | 20.500 | 14.63 | W9XF Chicago, Ill., 4:30-8 p.m.; 9:30 p.m.- | B |
| | | | B | | | 2 a.m. | B |
| | | | B | 20.820 | 14.40 | LSY Buenos Aires, Argentina. Heard 10 | P |
| | | | B | | | a.m. to 2 p.m. | B |
| | | | B | 21.020 | 14.27 | LSN, Buenos Aires, Argentina, 8 a.m. and | P |
| | | | B | | | 4 p.m. | B |
| | | | B | 21.054 | 14.24 | WKA Lawrenceville, N. J., 8 a.m.-4 p.m. | P |
| | | | B | 21.069 | 14.23 | PSA Rio de Janeiro, Brazil, 8 a.m. | P |
| | | | B | 21.400 | 14.01 | WKK Lawrenceville, N. J., 8 a.m.-4 p.m. | P |
| | | | B | 21.470 | 13.96 | GSH Daventry, England | B |

The Time Converter will turn these hours instantly into the time used by the station.

The Hundred Best S. W. Stations by Calls . . .

| | | | | | | |
|--|---|---|--|---|---|---|
| CEC Santiago, Chile | * | P | GSG Daventry, England | B | PLE Bandoeng, Java | P |
| 19.678 15.24 11 a.m.-4 p.m. | | | 17.770 16.90 Broadcasts for India | | 18.820 15.93 Tues., Fri., 5:40-10:40 a.m. | |
| CGA Drummondville, Que. | | P | GSH Daventry, England | B | PLW Bandoeng, Java | P |
| 13.296 22.55 9 a.m. to 2 p.m. | | | 21.470 13.96 | | 9.480 31.63 | |
| CMCI Havana, Cuba | | B | HBJ Geneva, Switzerland | P | PMC Bandoeng, Java | P |
| 6.057 49.50 9 p.m.-11 p.m. | | | 14.550 20.60 | | 18.170 16.50 3:30-9 a.m. | |
| CM5RY Matanzas, Cuba | | B | HLB Geneva, Switzerland | B | PPQ Rio de Janeiro, Brazil | P |
| 7.312 41.03 Sat. 10:45-11:30 p.m. | | | 9.580 31.30 Sun. 5-5:45 p.m. | | 11.644 25.75 | |
| CNR Rabat, Morocco | | B | HBP Geneva, Switzerland | B | PPU Rio de Janeiro, Brazil | P |
| 9.276 32.32 Sun. 3 p.m.-6 p.m. | | | 7.790 38.49 Sun. 5-5:45 p.m. | | 19.270 15.57 10:30 a.m.-3:30 p.m. | |
| 12.820 23.38 Sun. 7:30-9 a.m. | | | HCJB Quito, Ecuador | B | PRADO Riobamba, Ecuador | B |
| CT1AA Lisbon, Portugal | | B | 3.908 75.00 7:30-9:45 a.m. | | 6.618 45.31 Thurs., 9-11 p.m. | |
| 9.592 31.25 Tues.-Fri. 5-7 p.m. | | | HJB Bogota, Colombia | P | PRBA Rio de Janeiro, Brazil | B |
| CT3AQ Funchel, Maderia | | B | 14.760 20.32 11 a.m.-5 p.m. | | 9.492 31.58 6-6:15 p.m. | |
| 11.174 26.83 Tues.-Thur. 5-6:30 p.m.; Sun. 10:30-noon | | | HJY Bogota, Colombia | P | PSA Rio de Janeiro, Brazil | P |
| | | | 9.928 30.20 | | 21.069 14.23 8 a.m. | |
| DAN Norden, Germany | | P | 18.444 16.25 11 a.m.-4 p.m. | | PSH Rio de Janeiro, Brazil | P |
| 12.592 23.81 Talks to ships | | | HJ3ABF Bogota, Colombia | B | 10.212 29.35 | |
| DGK Nauen, Germany | | P | 7.610 39.40 7 p.m.-11 | | PSK Rio de Janeiro, Brazil | P |
| 6.675 44.91 | | | HJ4ABB Manizales, Colombia | B | 8.180 36.65 | |
| DGT Koenigswusterhausen | | B | 7.139 42.00 Sat. 10 p.m.-mid. | | PSR Rio de Janeiro, Brazil | P |
| 11.710 25.6 | | | HKD Barranquilla, Colombia | B | 14.682 20.42 5-6 p.m. | |
| DHO Nauen, Germany | | P | 5.996 50.00 8-10 p.m. | | RV-15 Khabarovsk, USSR. | B |
| 20.028 14.97 | | | HKO Medellin, Colombia | B | 4.273 70.65 3-9 a.m. | |
| DIQ Nauen, Germany | | B | 5.925 50.60 Mon.-Wed.-Fri. 8-10 p.m.; Tues.-Thur.-Sat.-Sun. 6-8 p.m. | | RXC Panama City, Panama | P |
| DJA Zeesen, Germany | | B | | | 14.550 20.60 p.m. | |
| 9.552 31.38 2 p.m.-6:30 | | | HVJ Vatican City | B | SR-1 Poznan, Poland | B |
| DJB Zeesen, Germany | | B | 5.968 50.26 2-2:15 p.m.; Sun., 5-5:30 a.m. | | 9.570 31.33 Tues., 6-8 a.m. | |
| 15.190 19.73 8 a.m.-noon | | | IAC Coitano, Italy | P | SUZ Cairo, Egypt | P |
| DJQ Koenigswusterhausen | | B | 15.120 19.83 5-5:15 a.m. | | 13.816 21.70 7 a.m.-3:30 p.m. | |
| 10.285 29.15 | | | ICEJ S. S. "Rex" | P | TGW Guatemala City | B |
| EAQ Madrid, Spain | | B | 6.648 45.10 | | 6.611 45.35 Tues., Thurs., Fri., 10:30-mid. | |
| 9.862 30.40 6:30-8 p.m. | | | 12RO Rome, Italy | B | TGX Guatemala City | B |
| 19.684 15.23 Phones Sat. 1-3 p.m. | | | 8.566 35.00 | | 8.950 33.50 Sat. 10 p.m.-mid. | |
| FTM St. Assise, France | | P | 4.283 70.00 | | TIANRH Heredia, Costa Rica | B |
| 19.282 15.55 10 a.m.-2 p.m. | | | J1AA Tokyo, Japan | B | 9.670 31.00 Weekdays 10-11 p.m. | |
| FYA Pontoise, France | | B | 11.800 25.40 11 a.m.-12:30 p.m.; 2:30-5:30 p.m. | | 15.066 19.90 Sat., Sun. 11 a.m.-noon. | |
| 11.898 25.20 11:30 a.m.-2:30 p.m. | | | | | VE9AP Drummondville, Que. | B |
| 15.234 19.68 8:00 a.m.-11 a.m. | | | 9.862 30.40 5:00-7:45 a.m. | | 6.335 47.35 | |
| FZS Saigon, Indo-China | | P | 13.074 22.93 Phones | | VE9BJ St. John, N. B. | B |
| 12.000 24.98 9-10 a.m. | | | 15.760 19.02 Phones | | 6.090 49.23 5 p.m.-11 p.m. | |
| GBB Rugby, England | | P | KDK-KKH Kahuku, Hawaii | P | VE9BY London, Ont. | B |
| 13.500 22.09 | | | 7.518 39.89 9 p.m.-2 a.m. | | 4.792 62.56 Sat. mid-1 a.m. | |
| GBC Rugby, England | | P | 9.012 33.27 | | 6.426 46.65 Wed. 8:30-9:30 p.m. Fri. 7-8 p.m.; Sat. 8-11 p.m. | |
| 4.975 60.27 | | | KEQ Kahuku, Hawaii | P | 8.645 34.68 Mon. 3-4 p.m. | |
| 12.780 23.46 | | | 6.888 43.54 | | VE9CI London, Ont. | B |
| 17.080 17.55 | | | KWO Dixon, Calif. | P | 2.735 109.62 Daily 9-11 p.m. Sun. 11 a.m.-7 p.m. | |
| GBW Rugby, England | | P | 15.410 19.46 2-5 p.m. | | VE9CS Vancouver, B. C. | B |
| 14.450 20.75 6 a.m.-6 p.m. | | | KWV Dixon, Calif. | P | 6.070 49.39 Fri. 12:30-1:45 a.m.; Sun. noon-mid. | |
| GBX Rugby, England | | P | 10.830 27.68 | | VE9DR Drummondville, Que. | B |
| 16.150 18.56 4 p.m.-11 p.m. | | | LSG Buenos Aires, Arg. | P | 6.005 49.93 7 p.m.-mid. | |
| GSA Daventry, England | | B | 19.895 15.07 10:30 a.m.-3:30 p.m. | | 9.555 31.37 | |
| 6.050 49.56 Broadcasts for South Africa 1:00-3:00 p.m.; West Africa 3:30-5:30 p.m.; Canada 8-10 p.m. | | | 9.895 30.30 6 p.m.-6 a.m. | | 11.780 25.44 | |
| | | | 21.020 14.27 8 a.m.-4 p.m. | | VE9GW Bowmanville, Ont. | B |
| GSB Daventry, England | | B | LSR Buenos Aires, Arg. | P | 6.092 49.92 Daily 5-11 p.m.; Sun. 1-7 p.m. | |
| 9.510 31.53 Broadcasts for South Africa 1:00-3:00 p.m.; West Africa 3:00-5:30 p.m.; Canada 8-10 p.m. | | | 18.958 15.82 11 a.m.-4 p.m. | | VE9JR Winnipeg, Man. | B |
| | | | LSY Buenos Aires, Arg. | P | 11.710 25.60 Tues. 6:30-8:30 p.m. Fri. to 9. | |
| GSC Daventry, England | | B | 20.820 14.40 | | VK2ME Sydney, Australia | B |
| 9.585 31.28 | | | OCI Lima, Peru | P | 9.585 31.28 Sun. 1-3 a.m.; 5-9 a.m.; 9:30-11 a.m. | |
| GSD Daventry, England | | B | 18.670 16.06 2 p.m. | | VK3ME Melbourne, Australia | B |
| 11.750 25.51 Broadcasts for Australasia 4:30-6:30 a.m. | | | OPM Leopoldville, Africa | P | 9.503 31.55 Wed. 5-6:30 a.m.; Sat. 5-7 a.m. | |
| | | | 10.090 29.70 | | VQ7LO Nairobi, Kenya | B |
| GSE Daventry, England | | B | ORX Brussels, Belgium | P | 6.060 49.48 Daily 11 a.m.-3:30 p.m.; Tues. 3-4 a.m.; Thur. 8-9 a.m. | |
| 11.865 25.27 Broadcasts for India 9:30-11:30 a.m. | | | 10.340 28.99 | | | |
| | | | OXY Skamleback, Denmark | B | | |
| GSF Daventry, England | | B | 9.520 31.49 2-6:30 p.m. | | | |
| 15.140 19.81 | | | PCK Kootwijk, Holland | P | | |
| | | | 18.400 16.29 | | | |
| | | | PCV Kootwijk, Holland | P | | |
| | | | 17.830 16.82 6-9 a.m. | | | |

| | | | | | | | | |
|---------|----------------------|--------------------------------------|--------|-------------------|--|--------|-------------------|---|
| VRT-ZFA | Hamilton, Bermuda | P | 6.096 | 49.17 | Sat. 4:30 p.m.-1 a.m. | 6.076 | 49.34 | Sun. 11 a.m.-9 p.m. |
| 5.045 | 59.42 | | 17.772 | 16.87 | 8 a.m.-4 p.m. | W9XF | Chicago, Ill. | B |
| 10.060 | 29.80 | | W3XL | Boundbrook, N. J. | B | 6.095 | 49.18 | 4:30-8 p.m.; 9:30-2 a.m. |
| WKA | Lawrenceville, N. J. | P | 6.386 | 46.96 | | | | |
| 21.054 | 14.24 | 8 a.m.-4 p.m. | W4XB | Miami, Fla. | B | XAM | Merida, Yucatan | P |
| WKK | Lawrenceville, N. J. | P | 6.036 | 49.67 | | 5.766 | 52.00 | |
| 21.400 | 14.01 | 8 a.m.-4 p.m. | W8XAL | Cincinnati, Ohio | B | 11.530 | 26.00 | |
| WMB | Miami, Fla. | P | 6.060 | 49.48 | Relays WLW 6 a.m.-10:30 a.m.; 1:30-3:30 p.m.; 7 p.m.-1:30 a.m. | XDA | Mexico City | P |
| 14.796 | 20.27 | 1-5 p.m. | | | | 5.879 | 51.00 | |
| WIXAZ | Springfield, Mass. | B | | | | 11.760 | 25.50 | |
| 9.560 | 31.36 | 4 p.m.-12:30 a.m. | | | | YVQ | Maracaibo, Venez. | P |
| W2XAD | Schenectady, N. Y. | B | W8XK | Pittsburgh, Pa. | B | 11.680 | 25.67 | 5-7 p.m. |
| 15.320 | 19.57 | Daily 1-3 p.m.; Sat., Sun. to 4. | 6.140 | 48.83 | Relays KDKA 4-11 p.m. | 18.296 | 16.39 | |
| W2XAF | Schenectady, N. Y. | B | 11.872 | 25.25 | | YV1BC | Caracas, Venez. | B |
| 9.530 | 31.46 | Daily 5:15-11 p.m.; Sat., Sun. 4-11. | 15.204 | 19.72 | Relays KDKA 9 a.m.-4 p.m. | 6.080 | 49.32 | Relays 960 ks.; 10:30 a.m.-1 p.m.; 5:15-10 p.m. |
| W3XAL | Boundbrook, N. J. | B | W9XAA | Chicago, Ill. | B | 6.125 | 48.95 | 8-11 p.m. |

The Month's Changes

| FREQUENCY | | | | | |
|-----------|------|----------------------------------|------|------|---|
| 546.8 | KEY | Merida, Mex., from 1000 | 1310 | KFYO | Lubbock, Tex., to Kirksey Bros. |
| 585 | CMW | Havana, Cuba, from 1185 | 1370 | KICA | Clovis, N. M., to South West Broadcasting Co. |
| 638.3 | XFG | Mexico City, from 680 | 1420 | WAZL | Hazleton, Pa., to Hazleton Broadcasting Service, Inc. |
| 780 | XEP | Mexico City, from 1400 | 1420 | WJBO | New Orleans, La., to Baton Rouge Broadcasting Co., Inc. |
| 860 | XFX | Mexico City, from 867 | 1500 | KREG | Santa Ana, Calif., to Voice of the Orange Empire, Inc. |
| 925 | CMBW | Havana, Cuba, from 1140 | | | POWER |
| 925 | CMCN | Havana, Cuba, from 1270 | 600 | KFSD | San Diego, Calif., 500 to 1000 |
| 965 | CMBD | Havana, Cuba, from 1270 | 610 | XETR | Mexico City, 2500 to 1000 |
| 965 | CMCW | Havana, Cuba, from 1365 | 780 | XEP | Mexico City, 200 to 1000 |
| 965 | XEAW | Reynosa, Mex., from 955 | 800 | WBAP | Fort Worth, Tex., 10,000 to 50,000 |
| 1000 | XEA | Guadalajara, Mex., from 1155 | 810 | XFC | Aguaascalientes, Mex., 250 to 350 |
| 1010 | CFCO | Chattham, Ont., from 1210 | 1000 | XEA | Guadalajara, Mex., 500 to 100 |
| 1010 | XEU | Veracruz, Mex., from 1007 | 1050 | XES | Tampico, Mex., 500 to 250 |
| 1075 | XEG | Mexico City, from 1070 | 1132 | XEH | Monterrey, Mex., 1000 to 250 |
| 1140 | CMCD | Havana, Cuba, from 925 | 1140 | XETA | Mexico City, 500 to 250 |
| 1185 | CMCJ | Havana, Cuba, from 1180 | 1180 | KOB | Albuquerque, N. M., 10,000 to 20,000 |
| 1200 | KFXJ | Grand Junction, Colo., from 1310 | 1250 | XEFA | Mexico City, 250 to 500 |
| 1235 | CMBY | Havana, Cuba, from 1230 | 1310 | XEI | Morelia, Mex., 150 to 125 |
| 1235 | CMCA | Havana, Cuba, from 1230 | 1390 | WHK | Cleveland, Ohio, to 2500 days |
| 1270 | CMBF | Havana, Cuba, from 965 | 1450 | WGAR | Cleveland, Ohio, to 1000 days |
| 1325 | CMBG | Havana, Cuba, from 1365 | | | NEW |
| 1375 | CMCR | Havana, Cuba, from 1325 | 818 | XFI | Mexico City |
| 1370 | KSO | Des Moines, Iowa, from 1380 | 830 | XETW | Mexico City |
| 1395 | CMCH | Havana, Cuba, from 1405 | 840 | XETH | Puebla, Mex. |
| 1395 | CMCM | Havana, Cuba, from 1405 | 840 | XFB | Jalapa, Mex. |
| 1395 | CMDB | Havana, Cuba, from 1405 | 890 | XETU | Pachua, Mex. |
| 1500 | CMBR | Havana, Cuba, from 1480 | 1000 | XEFJ | Monterrey, Mex. |
| 1500 | XEFZ | Coyoacan, Mex., from 1370 | 1200 | CHLP | Montreal, Que. |
| | | | 1240 | XEFW | Tampico, Mex. |
| | | | 1310 | KIFH | Juneau, Alaska |
| | | | 1360 | XEFH | Mexico City |
| | | | 1370 | XEFV | Jaurez, Mex. |
| | | | | | DELETED |
| | | | 780 | XEZ | Mexico City |
| | | | 1000 | XEE | Oaxaca, Mex. |
| | | | 1000 | XETG | Torreón, Mex. |
| | | | 1000 | XEV | Puebla, Mex. |
| | | | 1230 | XETQ | Mexico City |
| | | | 1300 | XEM | Tampico, Mex. |
| | | | 1420 | WERE | Erie, Pa. |
| | | | | | CALLS |
| | | | 750 | XEAN | Jaurez, Mex., from XEQ |
| | | | | | CHAINS |
| | | | 700 | WLW | Cincinnati, Ohio, from Blue to N. |

Last Minute DX Tips

Here is some good news for those that missed YV1BC on their last program. They advise us they will give another special DX program the night of Saturday, Feb. 11th, from 2:00 to 3:30 a. m. Caracas time.

WNAD, "The Voice of Soonerland," honor us with a special DX program on the morning of Feb. 12th, from 2:05 to 3:00 CST. They promise an excellent program and will send pictures of studio and history of the station to all who report reception. They want at least 500 replies.

KVOR, "The Voice of the Rockies," will be on the air from 1:00 to 2:00 a. m. MST the morning of Sunday, Feb. 5th, with a special DX program. Here is a fine opportunity to add Colorado to your log.

KGER, Long Beach, Calif., is now presenting a series of DX programs beginning at midnight every Saturday and concluding at 1:00 or 1:20 a. m. PST. If you want to verify be sure to send three cents return postage or ten cents for an Ekko.

The International Radio Club of Miami tells us that they are now on the air regularly three times a week over station WIOD on 1300 kcs. the nights of Monday, Wednesday and Friday at one o'clock. They give DX talks and tips.

CFCO, Chatham, Ont., tell us they have finally succeeded in securing allocation on 1010 kcs. which they feel sure will greatly increase their coverage. If you couldn't get them on 1210, try them now on 1010.

WEXL, Royal Oak, Mich., now has an early morning schedule every day of the week except Saturday and Sunday, from 1:30 to 5:00 a. m. EST.

Have you logged WJW yet at its new location in Akron, Ohio? They will have a DX special early Saturday morning, Feb. 4th, from 3:00 to 4:00 a. m. EST.

Here are some foreign DX specials arranged by the International DXers

Alliance of Bloomington, Ill., given us by T. Colegrove of Frankfort, Mich. We assume the times are those of the night before. All time is a. m. EST.

| | |
|------------------------|--|
| Jan. 29th, 12:00- 1:30 | Bordeaux, France, 986 kcs. |
| 11:30- 1:00 | Sottens, Switzerland, 743 kcs. |
| Jan. 30th, 12:00- 1:30 | London National, 1147 kcs. |
| Jan. 31st, 12:00- 1:30 | North National, Eng- land, 995 kcs. |
| Feb. 1st, 1:00- 2:30 | Brussels, Belgium, 887 kcs. |
| Feb. 2nd, 2:00- 3:30 | Stuttgart, Germany, 832 kcs. |
| Feb. 3rd, 12:30- 2:00 | Scottish Regional, 797 kcs. |
| Feb. 4th, 12:00- 1:30 | Stockholm, Sweden, 689 kcs. |
| Feb. 5th, 11:15-12:45 | London Regional, 843 kcs. |
| 12:00- 1:30 | Beromuenster, Switzer- land, 653 kcs. |
| Feb. 6th, 12:00- 1:30 | Budapest, Hungary, 545 kcs. |
| Feb. 7th, 12:30- 2:30 | Poste Parisien, France, 914 kcs. |

Regarding CMGE, J. J. Connolly, Rosedale, L. I., writes: "Here is a Cuban who is looking for reports and will 'play ball' with the boys on the 'veri' end of it."

Two mysteries in Texas for our readers to solve. "I have heard a station testing on 980 kcs. They have no call letters as yet and call themselves 'Capital X.' They are located in the Alamo Hotel here in Austin." This report comes from Hardy Pattillo of that city. "Yesterday and today I listened to a new station in Texas called either KNTX or DNTX. They were on 970 kcs. and are located in the Southern Hotel in Denton, Texas." This one is from O. D. Duncan, Denison, Texas. More outlaws?

KPOF has changed its DX program from Monday, Feb. 27th, to Thursday, Feb. 23rd.

WBSO, 920, Needham, Mass., will have a DX program on Sunday night, Feb. 19th, from 2:00 to 4:00 a. m.

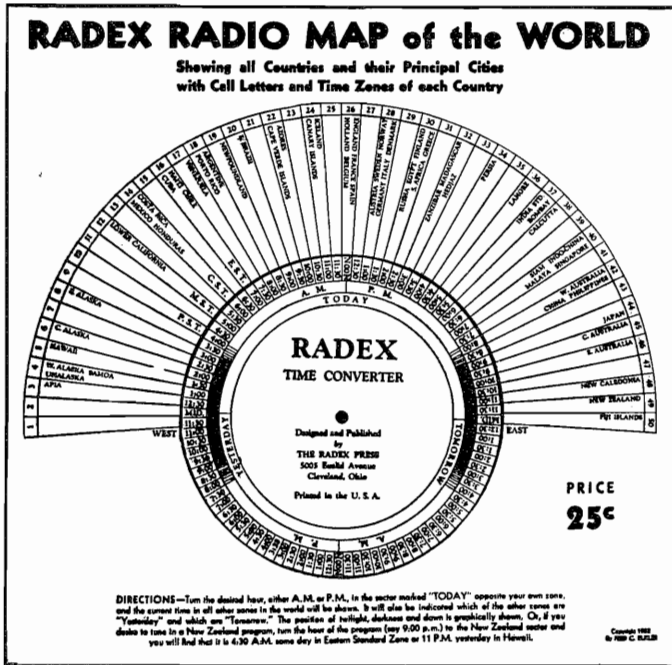
CHGS, 1120, Summerside, P. E. I., Friday night, Feb. 3rd, at 4:00 to 5:00 a. m.

10-BQ, 1170, Brantford, Ontario, Saturday night, Feb. 18th, at 4:00 to 5:00 a. m.

TELLS THE TIME For the Whole World

Just set the dial for the hour of the day in your zone and—presto—there is the time for every country in the world. No adding nor subtracting. Shows which times are yesterday, today and tomorrow.

Shows where twilight, darkness and dawn lie.



Tells You When You Must Tune for Distant Programs

On the double page inside is a fine map of the world—the size of six pages of RADEX—with all the principal cities and time zones plainly shown. Adds immensely to pleasure of DXing.

On the back is a list of all countries in the world with the call letters assigned to each and zone key for use on the Converter.

Mailed anywhere in the world for 25 cents. Given free with a year's subscription to RADEX; see subscription blank on page 24.

THE RADEX PRESS, INC.

5005 EUCLID AVENUE

CLEVELAND, OHIO, U. S. A.



Sometimes I think there ought to be a law to make everyone do a little studying every week. I didn't think that a year ago because it looked like all the cards were stacked against me. But I am certainly rolling in the money now. Maybe my story will show you the way to larger earnings also.

I Thought Radio Was a Plaything

But Now My Eyes Are Opened, and I'm Making Over \$75.00 a Week!

\$50 a week! Man alive, a year ago I thought anyone making that much was just plain lucky.

Twelve months ago I was just barely getting by. It was the same old story—a little job; a salary as small as the job.

If you had told me that twelve months later I would be making \$75 a week in my own Radio business—I'd thought you were crazy.

But I am getting ahead of my story—let me tell you how it all started. I was hard up a year ago because I had been kidding myself—that's all—not because I had to be. I thought a fellow either had to be lucky or have a string of college degrees a half a mile long to make good money.

One day I picked up a magazine and the headline of an ad attracted me because it seemed to fit my case. It said, "I will show you how to start a spare time or full time Radio business of your own WITHOUT CAPITAL."

"They're trying to kid somebody," I thought, "but I'll find out what it is all about anyway."

I wrote in and within a few days received a 64-page book telling about the opportunities in Radio, how I could prepare right at home in my spare time, and how they would show me how to start making money in my neighborhood selling and repairing Radio sets. It would probably have sounded too good to be true if the promises had not been backed up by 100 letters from fellows who had taken their course and were very enthusiastic about it.

What has happened since seems almost like a dream to me now. I took their course and in about a month I was ready to start making money in my neighborhood—as much as \$5 and \$15 a week. It wasn't long until I had saved enough money to start a little business of my own.

That business has since grown to the point where I am clearing an average of \$75 a week. All this took place under the watchful guidance of my friends at the National Radio Institute. They also offered to train me for other lines—in case I wasn't interested in having my own business. Broadcasting stations, Radio Manufacturers, Operating on Board Ship, Servicing Sets, Aircraft Radio, Television and Talking Movies

are other fields their training covers. And to think, until the day I wrote for that book, I'd been wailing, "I have never had a chance—will never have one—because I have no pull and have never had the advantage of a good education!"

Friend—you may not be as bad off as I was—but think it over—are you satisfied? Are you making as much money as you need? Would you sign a contract to stay where you are for the next ten years at the same salary? Those are the things you have to think about—because no one is going to make it his business to push you ahead—you must make it your own business.

Take my tip—write for their book. It won't cost you anything—only a three-cent stamp. It shows you a lot of things which I don't believe you know now—a lot of facts and figures on the opportunities in this new, fast-growing field. Where the jobs are, what they pay, how to get ready for one. Beginners as well as experienced men are making as much as \$1,000 to \$2,000 a year more as a result of N. R. I. training. You place yourself under no obligation because the book is free and is gladly sent to anyone who is ambitious and wants to get ahead. Just address J. E. Smith, President National Radio Institute, Dept. 3B0, Washington, D. C.

**J. E. Smith, President,
National Radio Institute,
Dept. 3B0, Washington, D. C.**

Dear Mr. Smith: Send me your free book, "Rich Rewards in Radio," which points out the opportunities for spare time and full-time jobs in Radio and your famous 50-50 method of training men to become Radio Experts through home study. I understand this request places me under no obligation.

Name

Address

City State

KOB under the name of Smith