

THE NOVEMBER 1932

RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



25^c

What the Market Offers in D. C. Sets
Susie Sexton Interviews Gracie Allen
North American Short Wave Stations
Broadcasting Stations of the World
Tuesday Time on the Air of all Stations

No. 63

NOV 1 1932

N. S. E.

Stations underlined in red are "heard" but not verified as of 11/1/32.
 Stations underlined in blue have NOT been heard as of same date.

NOVEMBER DX CALENDAR

A. M. time is given as of the night before. Thus early Monday morning programs are listed under Sunday night. See time conversion table on page 66.
 Standard Time: Eastern E; Central C; Mountain M; Pacific P.

SUNDAY NIGHT

Nov. 6th

Mid.-2:00 E—CMCH, 1405, Havana, Cuba

Nov. 6th, 13th, 20th, 27th

11:30-Mid. C—KSOO, 1110, Sioux Falls, S. D.
 Mid.-1:00 E—WSAZ, 580, Huntington, W. Va.

MONDAY NIGHT

Nov. 28th

2:00-3:00 M—KPOF, 880, Denver, Colo.

Nov. 14th

1:00-3:00 C—WHET, 1210, Troy, Ala.
 3:00-5:00 C—KFBI, 1050, Abilene, Kans.

Nov. 7th, 14th, 21st, 28th

Mid.-2:00 M—KOY, 1390, Phoenix, Ariz.
 Mid.-2:30 E—WMIL, 1500, Brooklyn, N. Y.
 Mid.-4:00 C—WABZ, 1200, New Orleans, La.
 5:00-6:00 E—WAWZ, 1350, Zarephath, N. J.
 5:15-5:30 E—WHP, 1430, Harrisburg, Pa.

TUESDAY NIGHT

Nov. 1st

11:00-Mid. P—CHWK, 665, Chilliwack, B. C.
 3:00-6:00 E—WOPI, 1500, Bristol, Tenn.

Nov. 8th

1:00-2:00 C—WJMS, 1420, Ironwood, Mich.

Nov. 29th

1:30-2:30 C—WCLO, 1200, Janesville, Wis.

Nov. 1st, 8th, 15th, 22nd, 29th

10:30-Mid. C—KFUO, 550, St. Louis, Mo.
 11:00-Mid. C—XEH, 1132, Monterrey, Mex.
 Mid.-1:00 P—CFJC, 1120, Kamloops, B. C.
 Mid.-3:00 C—WSUL, 880, Iowa City, Iowa
 2:00-3:00 C—KFGQ, 1310, Boone, Iowa

WEDNESDAY NIGHT

Nov. 2nd

Mid.-2:00 C—KFJZ, 1370, Ft. Worth, Tex.

Nov. 9th

1:00-3:00 M—10-BI, 1200, Prince Albert, Sask.
 2:00-4:00 C—WHBF, 1210, Rock Island, Ill.

Nov. 23rd

Mid. E—WNBH, 1310, New Bedford, Mass.
 3:00-5:00 C—KGFV, 1310, Kearney, Neb.

Nov. 2nd, 9th, 16th, 23rd, 30th

11:00-Mid. C—WHBL, 1410, Sheboygan, Wis.
 11:30-1:30 P—CKWX, 730, Vancouver, B. C.
 Mid. M—KFXJ, 1310, Grand Junction, Colo.
 1:30-3:00 C—KGFO, 1420, Shawnee, Okla.

THURSDAY NIGHT

Nov. 3rd, 17th

11:30-3:00 E—WMBC, 1420, Detroit, Mich.
 2:00-4:00 C—KASA, 1210, Elk City, Okla.
 2:00-4:00 C—KGFK, 1500, Moorhead, Minn.

Nov. 24th

2:00-3:00 C—KDLR, 1210, Devils Lake, N. D.
 4:30-6:00 E—10-BP, 1199, Wingham, Ont.

Nov. 3rd, 10th, 17th, 24th

Mid.-1:00 M—CFAC, 690, Calgary, Alta.
 Mid.-1:00 E—WTEL, 1310, Philadelphia, Pa.
 Mid.-2:00 P—CKOY, 1200, Kelowna, B. C.
 Mid.-2:30 E—WMIL, 1500, Brooklyn, N. Y.

FRIDAY NIGHT

Nov. 4th

2:00-4:00 E—10-BQ, 1200, Brantford, Ont.

Nov. 18th

5:00-6:00 E—WJBU, 1210, Lewisburg, Pa.

Nov. 4th, 11th, 18th, 25th

11:00-Mid. M—CFCN, 985, Calgary, Alta.
 11:30-12:30 C—WCAJ, 590, Lincoln, Nebr.
 11:30-1:30 M—KGEK, 1200, Yuma, Colo.
 Mid.-1:00 C—WENC, 1420, Americus, Ga.
 1:00-3:00 E—CKCL, 580, Toronto, Ont.
 1:00-4:00 E—CKPB, 890, Ft. William, Ont.

SATURDAY NIGHT

Nov. 5th

Mid.-2:00 C—WILL, 890, Urbana, Ill.
 2:00-3:00 E—CHMJ, 880, Hamilton, Ont.

Nov. 12th

1:00-4:30 P—KKROW, 930, Oakland, Calif.

Nov. 19th

2:00-3:00 E—WTOC, 1260, Savannah, Ga.
 3:00-5:00 C—KGFI, 1500, Corpus Christi, Tex.
 4:30-6:30 M—10-BI, 1200, Prince Albert, Sask.

Nov. 5th, 19th

12:30-2:30 M—10-AR, Moose Jaw, Sask.

Nov. 26th

11:00-3:00 C—WIBW, 580, Topeka, Kans.
 2:00-2:30 E—WEAS, 1210, White Plains, N. Y.

Nov. 12th, 26th

Mid. C—KUSD, 890, Vermillion, S. D.

Nov. 5th, 12th, 19th, 26th

7:30-10:30 —KGU, 750, Honolulu, H. T.
 11:30-1:30 P—CKWX, 730, Vancouver, B. C.
 11:30-2:00 C—WBQZ, 1200, Ponca City, Okla.
 Mid.-12:30 C—WKY, 900, Oklahoma City
 Mid.-1:00 P—KDB, 1500, Santa Barbara, Cal.
 Mid.-1:00 E—WJTBK, 1370, Detroit, Mich.
 Mid.-2:00 P—CKOY, 1200, Kelowna, B. C.
 Mid.-2:00 C—KRLD, 1040, Dallas, Tex.
 Mid.-2:00 F—WCAH, 1430, Columbus, Ohio
 Mid.-2:00 E—WGRI, 880, Scranton, Pa.
 Mid.-2:00 C—WGES, 1360, Chicago, Ill.
 Mid.-2:30 C—WOW, 590, Omaha, Neb.
 Mid.-3:00 E—CMCD, 925, Havana, Cuba
 Mid.-3:00 E—WWRL, 1500, Woodside, N. Y.
 Mid.-5:00 E—WTFI, 1450, Athens, Ga.
 12:15-1:30 C—WOMT, 1210, Manitowish, Wis.
 12:30-2:00 C—KMAC, 1370, San Antonio, Tex.
 12:30-3:00 M—10-BI, 1200, Prince Albert, Sask.
 1:00 E—KOY, 1350, Pittsburgh, Pa.
 1:00-2:00 M—KFXE, 920, Denver, Colo.
 1:00-4:00 M—KGCX, 1310, Wolf Point, Mont.
 1:00-5:00 C—WTRC, 1310, Elkhart, Ind.
 2:00-3:00 C—WKBB, 1500, Ludington, Mich.

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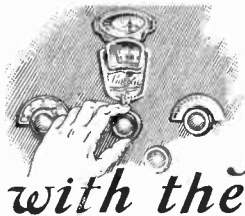
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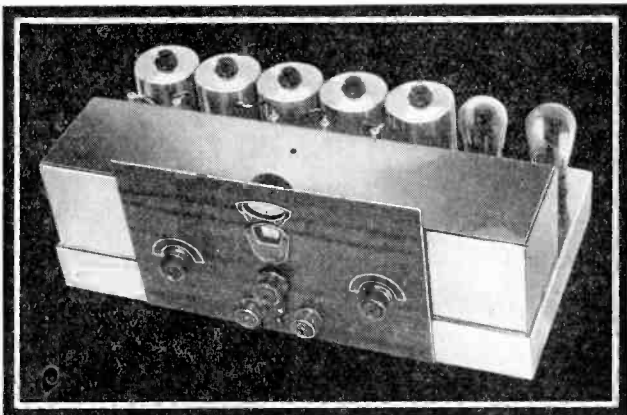
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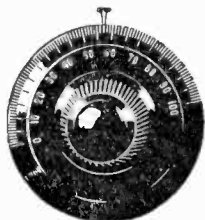
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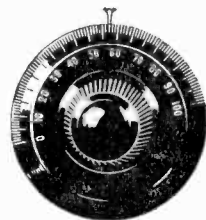


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FRED CLAYTON BUTLER

Editor and Publisher



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NUMBER 63

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On the NBC-WEAF Network, Fridays 8 to 9 p. m. EST.

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RADIO'S "FORGOTTEN MAN"

Relief Coming In D. C. Receivers

THE current political campaign has made frequent mention of the "forgotten man," a victim of present economic conditions. But he is not radio's forgotten man, the unfortunate victim of environment, who may be found in any "downtown" district where direct current only is provided by the electric light and power companies.

It seems that most radio manufacturers have failed generally to remember the user of 110-volt direct current. Perhaps, before long, with a sudden desire for new business in this neglected field rather than a belated feeling of remorse, set builders will rush to the rescue of radio's forgotten man. There is no good reason why more d. c. receivers are not available to the thousands of persons who live in direct current areas in every large city.

Radio enthusiasts, who are compelled to use the direct current provided commercially in metropolitan areas, by individual power plants, or on board many ships of the world, are demanding radio receivers which are equal to those made exclusively for alternating current. The resident in a downtown area has very few 110-volt d. c. radio receivers available, but his neighbor just across the restricting boundary in an a. c. district has the cream of a. c. instruments to choose from.

Special Tubes Needed

Receivers made for alternating current cannot be operated on the direct current that is furnished to mid-town areas in practically every large American city. A d. c. receiver is little more than a battery set except that it uses a potential of 110 volts from the lighting current. It is designed for direct current and uses tubes that do not require an excess of 110 volts on the plates. Until re-

cently, the lack of good d. c. tubes—screen-grid, variable-mu, and pentode—has held down the full development of d. c. receivers, but it is hoped that the near future should show a decided trend toward this forgotten field.

Many persons will ask, then, why should a city be divided into two electrical districts—the downtown d. c. area, and the outlying and extensive a. c. regions.

Why a D. C. Area?

In the pioneer days of electricity the first generators were Edison d. c. dynamos, and power lines were short in length and restricted to the downtown areas. Mechanical and electrical equipment installed in buildings and factories was, therefore, only for direct current operation. But with the coming of alternating current, a more useful and economical system, the large and concentrated development in the heart of most cities made it impracticable and an unnecessary burden on electric consumers to make sweeping changes over to alternating current.

Since direct current cannot be transmitted more than a few miles at best without serious loss of voltage, and because of the prohibitive cost of



The Coming RCA-Victor

immense copper conductors, the more flexible alternating current is used to reach far out from the central d. c. districts. A small wire is capable of carrying a heavy alternating current which may then be stepped down to 110 volts as required, although hundreds of miles distant from the original source of power. This is the sole reason why the restricted central districts in our older cities are always surrounded by extensive a. c. areas.

Needs No Rectifier

The d. c. radio receiver is a duplicate of some a. c. set, except that different types of tubes are used with plate potentials not in excess of 110 volts. While a d. c. receiver has no power transformer; it requires the usual arrangement of choke coils and filter condensers to smooth out the noise of the commutator ripple of the d. c. generators. No rectifying tube is needed, and the newer types of tubes, such as the -36, -37, -38, -39, 41 and 55, are used in most d. c. receivers. And in many cases an a. c. receiver can be easily altered so that it will operate satisfactorily on direct current.

A survey of modern radio receivers reveals an astonishing paucity of 110-volt d. c. sets. Only a few manufacturers are making d. c. models that are comparable to the better a. c. superheterodyne receivers. More battery sets are being offered than are furnished for d. c. operation on 110 volts, for most builders feel that the demand for d. c. sets is rather limited and will not justify the cost of construction and marketing. Yet, in 1932, we find a few of the leading makers coming out with efficient d. c. receivers, and it may be the trend is on the turn for the relief of downtown dwellers.

Using a Converter

Some manufacturers would rather rebuild their standard a. c. sets for d. c. operation when needed. In many cases rotary converters (a small d. c. motor driving an a. c. generator) are used to provide the necessary alter-



The Crosley "Senator" 110-volt D. C. Console Receiver

nating current. The Janette Converter is a small, compact device made for a. c. sets that are to be used in d. c. areas. This is common practice in radio stores and shops where a large number of a. c. sets are demonstrated. And, when the concentrated consumption of alternating current justifies the effort, most power companies will run separate a. c. circuits into the downtown d. c. districts.

Philco's model 47 is the newest 110-volt d. c. superheterodyne receiver. It uses two Philco 44 tubes, one -36, three -37s, and two 43s. The latter is designed especially for d. c. operation and will afford adequate power to run the twin speakers of the larger types. The set is available also in several of the Philco

(Continued on page 32)

MOST LOVABLE DUMBBELL IN RADIO • • *Susie Sexton Meets Gracie*

HOW does it feel to be the biggest dope in the world?" George Jessel inquired of Gracie Allen.

"You flatterer," giggled Gracie most original of comedienness in that disarming tone which is the despair of conversationalists but the delight of thousands of her radio listeners.

Brainlessness as a fine art has made fame and fortune for Gracie Allen. And in this year of Gracie and the Olympics it might be well to mention that Miss Allen holds all the women's international championships for dizzy characters—altitude distance and endurance. She has hurdled more quips from London to Hollywood with less time and effort than any other "dumberacker" of her sex. Gracie is head "ache" to her husband and partner, George Burns, on the Robert Burns Panatella program every Wednesday night at nine o'clock over the Columbia Broadcasting System.

The perfect foil for her artful artlessness is the scintillating, sparkling wit of George himself. A combination of their gifts results in one of the cleverest and more original acts heard in years.

Tuning in on Burns and Allen on Wednesday night between selections by Guy Lombardo and his Royal Canadians you picture garrulous Gracie as a tiny, harmless mite and George as a big gruff with a hoarse voice and testy manner.

George will say—

"Gracie, why don't you join a circus and walk a tight-rope five hundred feet above the audience without a rope?"

"What if I fall?" asks Gracie.

"Don't let that bother you," retorts George.

Later on, George, completely ex-

asperated, remarks:

"If you had a date with me tomorrow night at 8:30 and you didn't show up—it certainly would be all right with me."

"I'll bet you tell that to all the girls you meet," is Gracie's comeback.

This is the patter before the microphone or back of the footlights. George, harsh and terribly annoyed with Gracie, just a poor little girl who doesn't know any better. But if you meet these two charming and gifted young people away from stage or studio you get a different picture. They had just finished their act with Norma Talmadge and George Jessel at the second show when I met them in their dressing room at the Paramount Theatre. Both wore Scottish kilts—having just finished a Jewish dance—not a cool costume for a sweltering August afternoon. It did not take them long to get rid of the make-up.

The dressing-room door was open for a breath of air so Gracie disappeared behind a long white sheet drawn from wall to wall. Black curls



Gracie Allen and George Burns

above the sheet and the tips of two black pumps beneath it—that was all could be seen of Gracie.

George played host. An alert, clever mind is George's—one that can juggle words or rip the heart out of a joke like chain lightning. A clean-cut, good-looking light-haired young man. Studious and a tremendous worker, he is a type familiar to every campus—the student or professor—but not to many stages.

An Irish Colleen

Gracie does not look as little as she sounds. She is taller than George's shoulder. If anyone asked me to describe the colleen of that old and popular tune, "I'll Take You Back, Kathleen," I would point out Gracie Allen. A perfect type of Irish beauty—black hair, white skin and long-lashed blue eyes. She weighs ninety-five pounds. Occasionally the scale slips around to one hundred and one. This is the only circumstance ever known to have hurried Gracie's speech. When it occurs she wrings her hands and moans she is getting "fat."

"Do you write all of these clever things," I asked George Burns. I did not expect him to admit it for he is a surprisingly modest young man.

"No," he said, "there are three of us working at it. Eugene Conrad, Al Boazberg and myself. You know it takes an enormous amount of humor to keep two people busy every day in the year and sometimes for four or five shows a day. So the boys send in anything that they think would be suited to the act and I work their ideas and my own into shape with Gracie."

If you think that telling a joke is the simplest form of art you are wrong. The telling and wording of these rippling laughs that come to you from your receiving set are the result of long and careful rehearsal. Sometimes the changing of a single word will spell the difference between a riot and a flat failure. So these two laugh-makers go over their price-



"Meyer, the Buyer" (Ted Bergman), whose domestic and financial troubles are "aired" each Saturday at 7:30 p. m. EST over the CBS

less lines a hundred times in the dressing room, at home, on the street or in the studio before such witticisms fall on your ears.

"My life," George admitted as he removed some Highland finery, "is made up of just two things. First, trying to make people laugh when I am on the radio. Second, trying to find the jokes to make people laugh when I get on the radio."

"And how about Gracie's part," I asked.

"Gracie is just Gracie," he answered. "She was the first to play that sort of a part, because when she went on with me for the first time I told her to act natural. Pretty soon everybody was copying her. And I suppose that type was a relief after the wise-cracking collegiates of a short time back."

"Tell me the story of Burns and Allen," I said.

It seems that George, who was born on the East Side in New York, went into a soft-shoe breakdown the first time he fell out of his cradle. A born dancer. Later his nimble in-

fant feet carried him over to Hamilton Fish Park near Pitt street, where all the local boys used to gather for skating parties. After becoming proficient skaters they determined to become dancing skaters. So at the age of fourteen George Burns and another lad teamed up and went into vaudeville.

Throws his Skates Away

His Irish wit went along and so fond was he of a joke that big-hearted George used to let his quips and jests fall where they might among the other actors in various houses where he played. Thereby raising their salaries but not his own. One day as he stood in the wings listening to a fellow player bring down the house with one of his own questions and answers George woke up. A quick comparison of the applause which followed the dancing skates and that which greeted the nimble wit. With rare business acumen George then and there decided to tell his own jokes.

Over in Union Hill, N. J., that night he threw his skates away. The next day he started looking for a girl to "feed" him his lines. His search began with a young dancer, Rene Arnold, who was on the same bill with George Burns and his partner, Billy Loraine, that week.

"Say, Rene," said George as he stopped at the door of her dressing room the night he decided to become a comedian instead of a dancer. "I'm looking for a girl to do an act with me. Know anybody?"

Rene was the kind of a girl who never lacks an answer.

"Of course, George, there's Gracie," she said, wiping off another inch of make-up.

"Who's Gracie?" inquired George.

"My girl friend," said Rene. "Dandy little Irish dancer, just arrived from the Coast. She's been dancing out there with Larry Reilly."

Gracie had been in town for weeks and could not find any kind of a job. Did not know where to look for one. So in due time she had forgotten the

clog and the shuffle and settled down to the sedate pace suitable for a downtown business school. There she studied the hooks and dashes of Pittman and Gregg, determined to become a stenographer instead of a second Pavlowa.

That was nine years ago. Gracie has been Mrs. George Burns for six of those years.

Their first act was called "Sixty-forty." George disguised himself with a big black cigar. Gracie appeared as Gracie. At first, in his new role, George answered the questions asked by his partner. Unfortunately the audiences laughed at Gracie's questions, but not at George's answers. So the positions were reversed. And Gracie, whose innocent self-starting prattle is guiltless of brakes or clutches, became a sensation.

Since then they have told George's jokes in Gracie's inimitable fashion all over the world, on the air and off. Not long ago they were heard over station BBC in London. Last season they had completed twenty-seven weeks over WABC for the Robert Burns Panatella, which will continue to sponsor them during the new season with Guy Lombardo and his Royal Canadians. Last year they appeared also on programs for Fleischmann's Yeast and as pinch-hitters for Harry Richman.

Making the Movies

Their motion picture contracts have included fourteen or fifteen short subjects in each of which Gracie goes into a different line of business. Then, too, they were in "The Big Broadcast" recently made with Bing Crosby.

Gracie had been very quiet all during the interview. She was getting ready to go to the hairdresser. Of course, I could not be as informal or inquisitive as George Jessel, but I thought I would just inquire about her family.

"How's your brother, Gracie?" I ventured, as she threw a lovely white

(Continued on page 31)

RULES *and* REGULATIONS of DX

• *Another Article for Beginners*

(NOTE—This is the second talk by the Editor of RADEX on the WGAR DX Club program.)

MOST hobbies are somewhat expensive. Rare postage stamps and old coins, for instance, cost money. The game of DXing, on the other hand, may be enjoyed fully without the expenditure of a single cent. Take your RADEX and tune in any of the 800 stations listed. When you have clearly heard the call letters of any station announced, make a check mark, or indicate the date heard, opposite that station. See how many different calls you can bring in in an hour or a night. As your log increases, see if you can fill all the 97 channels or if you can complete the roster of the states. All the time, of course, you are building up your grand total of stations received.

While a great many DXers are content with merely logging the stations received, counting only those whose calls are caught beyond all doubt, yet a great many others want their reception of each station actually verified. Most broadcasting stations are glad to verify the reception of their programs providing you will write them a letter giving them data which will enable them to know definitely that it was their program you received. Be sure to give them the hour and minute you heard them, preferably in the time of the station's standard. Give the titles of as many of the musical selections and talks as possible. Quote something from their announcement. And be sure to send return postage. Do not send U. S. postage to other countries; they cannot use it. Send pennies. At any post office you can purchase International Reply Coupons which are good for the return of one first-class

letter from any country in the Postal Union.

A great majority of the broadcasting stations will send you a souvenir stamp which is imprinted with the call letters of the station. The price is usually ten cents. DXers mount these in a scrap book and save them exactly as other collectors do postage stamps. Some DXers have a collection of several hundred of these stamps. Your RADEX shows which stations will send you these stamps and which ones will verify your reception.

From time to time, stations put on special DX programs particularly for distant listeners. A list of these appears in a monthly calendar in each issue of RADEX. Stations welcome reports of the reception of these programs as they enable them to know how far their station is reaching out. Most such programs are after mid-



Sunda Love as "Karamench," the slave girl in "Fu Manchu" Mondays, 8:45 p. m. EST on the CBS

night and at an hour the station is not ordinarily on the air.

Stations as a rule will not verify reception of chain or network programs for information regarding such features is readily available to anyone and consequently they do not constitute definite proof of actual reception. Your RADEX gives a list of these chain programs with the stations broadcasting each one. It will be necessary to consult this list and avoid asking for verification of your reception of these chain programs. A few stations devote their time almost wholly to chain programs. These make special announcements or have certain local features so it will be necessary for you to watch your chance and catch these particular times for your verification.

Those "Anonymous" Stations

The Radio Commission rules call for the announcement of call letters every fifteen minutes as a general thing. The bane of the DXer is the station that ignores this ruling and announces its call letters only at long intervals. How the DXer hates the announcer who says "we." He is like the fellow that calls you on the phone and says, "Do you know who this is?" You'd like to swat him. Why is it that most announcers assume that everyone knows them? All over the country people are tuning them in and invariably wondering what station they have and all they hear is "We now present—" or "We will now give—" It would be just as easy, and much more courteous, to say "WXYZ now presents—" or "WXYZ now gives—" DXers everywhere would rise up and call that announcer blessed. After all, a broadcasting station must want to be known for there would be no money in conducting an anonymous station. Why, then, will they permit their programs to remain anonymous? If any announcers are reading this, I beseech them to forget this "we" stuff and use their call letters.

Assuming that you have a fairly good set, there are probably twenty

large near-by stations you can tune in practically at will, but there are a hundred others within a reasonable radius that can be brought in only with patience and very careful tuning. Radio is as temperamental as a prima donna but its very uncertainty makes it all the more fun. Some distant stations will be received when others with the same power very much closer, cannot be brought in at all. Thus, WSPD with 1000 watts in Toledo is rarely received in Cleveland, while many stations of 500 watts at a much greater distance can be brought in quite regularly. There



Elsie Hitz, heroine of "Evening in Paris Mysteries" CBS Mondays 9:30 p. m. EST. Photo by Oggiano-Mitchell, N. Y.

are many factors that affect radio reception—the weather, the amount of darkness, the aerial, the ground, the location of the set, the number and condition of the tubes and the skill and patience of the operator. I received a letter from one DXer a while ago who added several new stations to his list merely by moving his set from the dining-room to the kitchen. It is this idiosyncrasy of radio that makes it so intriguing. It wouldn't be much fun fishing if you

got a fish every time you threw your hook in the water. That would be business, not a sport.

Matching Aerial to Set

Some DXers are of the opinion after years of experimenting that every radio set must have an aerial matched to it. One ardent fan tried every length of aerial from 50 to 600 feet and found that 250 feet was the correct length for best results with his particular set and location. Receiver manufacturers usually recommend about 50 feet for present-day sets and yet the best length cannot be prescribed for any set. Only experimenting can tell the story. The aerial plays so important a part in distant reception that it is well worth the DXer's time to experiment with aerials as to length and shape and direction.

Removing the ground entirely has often been found to double the volume, particularly on certain frequencies although sometimes the volume of other frequencies is diminished. Some sets are so built that they cannot be operated without a ground without danger of damage to the set. Usually the manufacturer of such a set gives a warning in his book of instructions against using without a ground. In a city the cold-water pipe is usually the best and certainly the most convenient ground, but sometimes other electrical apparatus are grounded to the same pipe and this tends to make it noisy. In such a case it is necessary to install a separate ground. DX clubs and magazines are constantly discussing the ground and aerial question as their members and readers try new experiments.

Rules of the Game

Here are some of the rules of the DX game:

Do not log a station nor ask for verifications unless you are positive in your own mind of the identification of that station.

If a station moves to a new location or a new frequency, you may count it a second time.



JACK BENNY AND ETHEL SHUTTA

It will be a real disappointment to radio listeners to learn that these two popular entertainers will not be heard together after October 30th. On that date Jack Benny goes Columbia with his Canada Dry program and will be heard every Thursday at 8:15 p. m. and every Sunday at 10:00 p. m. EST.

Ethel Shutta will remain with her husband, George Olsen, on the NBC but neither sponsor nor time has been announced as yet.

Ted Weems' band will co-star with Jack on the new program.

Jack and Ethel have been one of the most amusing pairs radio has brought together. It is too bad to separate them.

If a station merely changes its call letters or increases its power, the second reception does not count.

If a station uses two different sets of call letters, you may log each of them. Your RADEX shows which stations used these double and triple calls.

Stations outside the broadcast band such as police broadcasters may be logged if you hear them on your regular set.

Short-wave stations heard on harmonics of their regular frequency, such as airport stations, may be entered.

WHY GOOD SETS GO WRONG

• • • *Answers to Troubled Users*

BAFFLE FOR DYNAMIC SPEAKER

I have a Temple dynamic speaker which I use as it is. But someone advised me to use it with a baffle and to get a piece of Celotex 18 inches square. How shall I prepare the Celotex and use the baffle?

Cut a circular hole in the center of the piece of Celotex with a diameter equal to that of the opening of the cone of the speaker. Drill holes around this opening in the Celotex so the speaker can be bolted firmly in place with the bolt holes provided in the metal rim around the cone and small stove bolts. Fasten the Celotex in a vertical position to a wood base with two ordinary shelf brackets. Baffling the speaker gives it better tone and brings out the vibrations of the lower notes. It is quite necessary for good tone reproduction.

OBsolete ELIMINATOR TUBES

I have the Zenith ZE3 and ZE4 battery eliminators, one of which uses the B type and the other the BH type of tubes. I understand they are no longer manufactured and can you tell me what tube to use as substitutes?

The type B is obsolete, but the BH is still being made. They are Raytheon tubes, and we suggest that you write the National Carbon Company, Eveready Raytheon Division, New York, N. Y., in an attempt to procure a new B tube, for which we do not believe there is a suitable substitute unless that concern has devised a method of using the BH type in place of the B.

STORAGE BATTERY CHARGER

Please explain how battery chargers work. How can I make an inexpensive charger for use at home?

There are a number of battery chargers—the tube or Tungar type,

the dry-unit rectifying type, and the wet rectifying or electrolytic type. In addition are others, such as the magnetic vibrating types. It is not practicable to attempt the construction of any of these types except the electrolytic rectifier, as they can be purchased at much lower costs than they can be built.

The purpose of the charger is primarily to take an alternating current and rectify it into a steady direct current at a reduced voltage suitable for charging a storage battery. When charging from 110-volt direct current the method is simplified for it is then only necessary to reduce the voltage to a safe potential for the 6-volt storage battery.

The simplest form of battery charger for use with alternating current is the wet electrolytic rectifier. A glass container about six inches across and



Here are the "Easy Aces" fixing up the next bridge game. Monday, Wednesday and Friday, 10:15 p. m. EST on the CBS Maurice Seymour Studios

of the same depth is nearly filled with a saturated solution of borax and distilled water. Two metal plates, one of sheet lead and the other of aluminum, each containing about ten square inches, are placed vertically in the solution but separated and insulated about one-half inch apart.

The aluminum plate is connected to the positive terminal of the storage battery; the lead plate to one lead of the 110-volt a. c. supply; and a 100-watt lamp inserted in series between the other a. c. lead and the negative terminal of the battery. The charger will pass approximately one ampere per hour through the battery.

TELEVISION ANTENNAS

Much has been printed about antennas and ground, but nothing is said about television requirements. Are standard antennas suitable for television and short-wave work?

Since television is a newcomer and few persons have had antenna experience, RADEX thinks it best to let the people who have had more television experience than any other organization in the world give their opinions.

The Jenkins Television Corporation has this to say: "We have found that a vertical aerial, approximately 60 feet high, to give the best results on television short-wave reception. The reason for this type of antenna is there is the least amount of fading due to the interference between sky and ground waves. A ground copper plate buried in damp earth with a heavy direct connection is the most effective ground we have yet found. It is well to put salt around this plate in the ground to be assured of the drawing and retaining of sufficient moisture for a good earth connection."

NOISY LAST TUBE

What could cause a crackling and scratching noise in the last tube of my 8 tube superheterodyne set? Changing tubes does not help. How can I test my transformers to tell if



"Sweethearts of the Air," Ben Alley and Helen Nugent, in the Charis Musical Revue, Tuesdays at 2:15 p. m. EST over Columbia

they are defective? I use a 6-volt "A" battery and 90 volts "B" battery.

When a crackling noise appears in the last tube of a radio set, which is the power audio amplifier, we can look for trouble in several places. Of course, the first place to look is in the tube itself, but since you say replacing the tube makes no difference, that item can be eliminated.

The connection to the tube plate should be examined. The socket springs and contacts must be tested and made to fit good and tight. Any loose wire between the B battery and the speaker and the plate of the last tube will cause these noises. The speaker itself must be examined for loose or broken wire contacts or chattering of the parts of the cone and magnet armature drive mechanism.

Very often, in battery sets, the B battery is at fault. If a cell in the battery becomes corroded it will cut on and off and cause crackling and scratching sounds at all times regardless of volume. And this trouble, if in the part of the battery used on

the last tube and speaker, will cause noise only in the last tube.

Transformers may be tested with a volt-meter and 45-volt B battery. Connect the meter and battery across the primary (Plate and B) of the transformer. If the circuit is good the meter will register some voltage but not the full 45. Change the test to the secondary of the transformer (A and G) and the meter should register less voltage than when on the primary. If there is a break in the wiring no voltage will register on the meter. Test also between the primary and secondary and to the metallic case. If there is a movement of the meter, there is a short-circuit and the transformer is defective. Most transformer failures are due to a break in the primary windings caused by burning out from too heavy current surges.

REPLACEMENT PARTS

I have difficulty in obtaining the proper volume controls and transformers for replacements in radio sets. There are so many kinds and values that no local dealers handle such a wide variety. Where can the average experimenter and repairman obtain these parts without going to the factories?

Many of the large radio supply houses carry rather complete lines of replacement parts—condensers, volume controls, and transformers. These concerns are advertised in various publications. For volume controls you might write to the makers of the famous Yaxley line, P. R. Mal-lory & Co., Indianapolis, Ind., and for transformers, to the Standard Transformer Corporation, 862 Black-hawk Street, Chicago, Ill. Both of these concerns issue catalogs of exact duplicate replacement parts for every set on the market.

HIS -22 TUBES BURN OUT

I have a Scott S.G. 9 radio and would like to know whether I can use adapters of some kind in my inter-
(Continued on page 32)

SHORT WAVE EXPERIENCES

By EDWARD C. HOULGATE

IN ACCORDANCE with ye Editor's wishes for the DXers to give some of their experiences in the short waves during the summer, I am writing this letter. I built a SW converter (two tubes) last May and have been using it with my Philco 11-tube superhet. Results have been very much better than I expected. The first DX station that I tuned in was VK3ME at Melbourne, Australia, and when I got them I almost fell over. Since first receiving them I have tried for them about fifteen times and have tuned them in every time which gives me a batting average of 1000 per cent.

My complete list of foreigners now includes G5SW at Chelmsford, England; FYA, Paris, France; GBU and GBC, Rugby, England; DJA, DJB, DIQ, Germany; I2RO Rome, Italy; LSX, Buenos Aires, Argentina; EAQ, Madrid, Spain; CT1AA, Lisbon, Portugal; VK2ME, Sydney, Australia; VK3ME, Melbourne, Australia; PRDA, PPQ, Rio de Janeiro, Brazil; HKA, HKT, HKF, Columbia, and CMCI, CM5RY, Cuba. My other stations include W2XAD, W2XAF, W1XAZ, W8XK, VE9JR, VE9CL, VE9GW, VE9DR, W9XF, W1XAL, VE9BY, VE9CI, W3XL, W3XAL, W9XAA, W8XAL, W3XAU and W2XV. Also have PRADO at Riobamba, Ecuador. All of the foreigners have been received repeatedly at loud speaker volume and most of them have been received at different times with terrific volume. England and France have been received every day for two months. The Philco is supplied with a distance switch, but I do not ordinarily use it when listening to short waves. I have used it on occasion when I have had some friends listening and have brought in

Rome, Paris and Chelmsford with volume sufficient to be heard a block away.

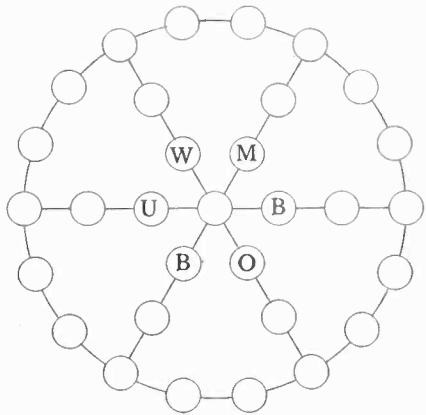
I had always heard that SW reception was very freakish and have proved this for myself. There have been times when I could not hear W1XAZ at Boston, or W2XAF at Schenectady, and at the same time England and France would be booming in. In fact, reception has been much more consistent from the DX stations, like Australia, France, England, Germany, etc., than from the short-wave relays in the United States, with the exception of W3XAL at Bound Brook, N. J. This station always comes in perfectly here on 49.18 meters. They are on 16.87 meters during the week now and I receive them only occasionally on this wave. I listened to DJB (Germany) on July 24th all afternoon and they came in here just as good as our local station in regard to volume and tone. I have never received any station coming in the way they did on that day. I could turn the volume control completely off on the Philco and the German station could be heard faintly.

The PUZZLE ... CORNER

DID you try that sticker in the October issue? If you didn't, try it now before you read the solution which follows. You will find that it will give your brain a good daily dozen. All through? Here's the answer: 475×398 equals 189,050.

If you failed to solve this problem, you will be interested in the method. Seeking for some key with which to start, we note that KOA multiplied by P is KUOA. The product is therefore nearly ten times the multiplicand. Only 7, 8 or 9 may be used as a multiplier to give a prod-

uct in which the first of four figures will be the same as the first of three in the multiplicand. No combination of figures in the place of OA can be multiplied by either 7 or 8 and give OA in the product. P must therefore be 9. The only figure that may be multiplied by 9 and bring itself is 5. A is 5. 9×5 gives 5 with 4 to carry. The letter "O" $\times 9$ plus 4 must give "O." Only 2 and 7 may be multiplied by 9 with 4 added to bring itself. "O" must be 7, as 2 will not work out. Now restate the problem using 9 for P, 5 for A and 7 for O. Studying the problem again we find that B plus 5 equals B which obviously must be naught. We see that G plus 7 plus 5 brings a naught so G must be 8. The rest is easy.



THIS MONTH'S PUZZLE

Guy B. Welsh and Floyd Moyer of Reynoldsville, Pa., collaborate to provide the teaser for this issue. They call it the "Wheel Puzzle." We are filling in six of the circles to make it a bit easier. The problem is to fill in six station calls along the spokes, all reading from tire to hub, and six more around the circumference reading clockwise. All calls, of course, are to have four letters and no two are from the same state or province. An excellent two a. m. exercise for DXers.

PERSONALITIES *of the* RADIO

•“Betty” Tells their Stories

THE Human Side of the News” is the angle from which Edwin C. Hill reviews the march of world events in his nightly talks over the Columbia network. He was born in Aurora, Indiana, and had family tradition been stronger, he would have become a schoolmaster, for his father was a county superintendent of education and his mother was a teacher.

After having graduated from the Aurora high school, Mr. Hill enrolled as a student of the University of Indiana. It was at college that he decided he wanted to join the staff of the New York Sun. He majored in English at the University and the professor used the New York paper for purposes of illustration. The small town student became interested in the metropolitan daily and determined that some day his writings would appear in it.

Upon receiving his degree, Edwin

C. Hill became a reporter for an Indianapolis paper. His inborn news sense and writing ability soon evidenced themselves. In quick succession he served editors in Fort Wayne and Cincinnati, in each case being given more and more important assignments. Eventually, he considered himself ready for metropolitan journalism. Without letters of introduction he presented himself at the desk of the New York Sun. The city editor liked the appearance of the persistent young Hoosier and gave him an assignment.

Success as a Cub

Within four months Mr. Hill had established a record. Never before in the history of New York journalism had a cub reporter succeeded in being paid by space in less than eight months, and Hill reached this point in half that time.

For more than twenty years he has been the Sun's star reporter. His brilliant writing style has made him one of the most widely read correspondents. In two decades he has covered every leading New York murder case, most of the important criminal and civil trials and leading disasters. His especial flair for human interest material has won him a large following and his discussions of the news from this point of view have made his talks among the most popular on the air.

His news commentaries are especially interesting because of his knowledge of the personalities whose activities result in headlines. He has built up a wealth of contacts through the many important interviews he has conducted and written. There are few outstanding figures, whether in the fields of statesmanship, industry or the arts, who have gone to New York and have not received Edwin C. Hill.



He dramatizes the news

For several seasons he was associated with the motion picture industry. At one time, he was director of newsreels for one of the large film companies and later went to Hollywood to supervise scenario writing for the same organization. Eventually, he returned to New York and resumed the labors of his first love—newspaper reporting.

Mr. Hill is married to the former Jane Gail, one-time well known film actress. He is fond of horseback riding and golf, and is exceptionally happy when he can get into the low nineties. One of the joys of his life is his bull terrier.

A prominent New York columnist once referred to him as the best dressed newspaper man in the Metropolis. His studio appearances confirm that opinion. During the winter his favorite costume is the short black coat with striped trousers. His iron grey hair gives him an especially distinguished appearance from which a black silk ribbon for his pince-nez does not detract. Though he uses a manuscript for his radio talks, he manages to retain the freshness of an ad-lib performance.

Edwin C. Hill is heard over the Columbia network at 8:00 and 11:00 p. m. EST Monday, Wednesday and Friday; 8:15 p. m. EST Tuesday, Thursday and Saturday.

The Shoemaker's Son

The story of Donald Novis, sensational young NBC tenor, is the story of a cobbler's son whose voice could not be denied. From the moment that he first sang in public to a group of grizzled miners and lumberjacks in Northern Ontario his career as a vocalist was ordained.

To young Donald singing was sissified. He yearned for a career as an athlete. But nature blessed him with a voice that demanded expression. In a conflict between singing and sports waged within himself, singing won.

Donald's debut was made in Chapleau, a hamlet in the wilds of upper Ontario. His father had located there as the village shoemaker after migrat-



Donald Novis, NBC Tenor

ing from Hastings, England, where Donald was born March 3, 1907. It was the practice of the elder Novis to conduct community sings in his humble shop on the long winter nights. The rough and ready people of that rugged country hungered for entertainment and Novis supplied it. The shoemaker had been carefully cultivating the voice of his son. One night he suddenly announced that his son Donald would favor with a song. He lifted the lad to his cobbler's bench and urged him to sing a certain song of old England which he had taught him and which he loved to hear. Unabashed, little Donald sang with fine fervor. At the conclusion of the number the audience of bearded men stamped their boots upon the rough hewn floor and shouted, demanding another song from the boy. Donald obliged and was rewarded with another noise demonstration.

Donald continued to sing with his father for the edification of their neighbors until an Episcopal clergyman chanced to visit Chapleau. He came from Southern California with stories of warm, sunny climes that appealed to the elder Novis, wearied of

the rigors of the Canadian winters. Further he offered Novis, Sr., a position singing in his church. That clinched the decision and the Novis family moved to Pasadena.

Carefully coached by his father in singing, Donald progressed through Pasadena schools, entering heartily into juvenile sports. A healthy, robust youngster, his natural inclination was for athletics. While at school he became the star of the baseball nine. When he went to high school he excelled in football and basketball. By the time he reached Whittier College he had set his heart on becoming an athletic instructor. Pressed by his father, however, he studied voice culture, and learned French, German and Italian. His magnetic voice attracted wide attention and soon he was in demand for entertainments and amateur musicals.

Wins Atwater Kent Audition

In 1927 Donald Novis won the state Atwater Kent Radio Audition, and the next year the national \$5,000 prize as America's most promising young singer. His fame reached Hollywood, and Mack Sennett engaged him for singing roles in "The Singing Plumber," and "The Singing Boxer." He became soloist with Gus Arnheim's Cocoanut Grove Orchestra at the Ambassador Hotel, Los Angeles. From Station KFI his voice was carried over the NBC Pacific networks and he became the sensation of the coast. His importation to New York and the nation-wide NBC networks was a logical sequel.

Donald Novis is heard over the NBC-WEAF net work each Monday, Wednesday and Saturday, at 6:45 p. m. EST, and each Sunday at 7:00 p. m. EST.

Jay C. Flippen has been appearing on various stages since boyhood with a long, unlit cigar, an ungovernable mop of hair, a face smeared with burnt cork, and a repertoire of weird but interesting gestures. Now, as radio's newest comic, he has discarded all but the ungovernable mop of hair.



Jack C. Flippen from "Arkansaw"

"Jay C. Flippen—of the Arkansas Flippens" was born at Little Rock in that state, in March, 1899, and he points with pride to the fact that he is part Chickasaw Indian. Baseball and blackface were the chief concerns of his youth, and his stage experience dates back beyond his memory of it. His mother, a frequent performer in home-town minstrel shows and amateur theatricals, took him on the stage with her for the first time when he was three. He first made up in blackface at nine and made his professional bow at a local vaudeville theatre at 14, when he was hired to substitute for a performer who was a. w. o. l.

His first time on the air came when he served as master of ceremonies at a banquet which was broadcast. He was regularly engaged as an air entertainer early in the summer as the central personality of the Goodall Palm Beach program over the Columbia network, and shortly after the close of that series was signed as an exclusive Columbia artist. He now sings, gags, and acts as master of ceremonies in "Jay C. Flippen-cies,"

(Continued on page 31)

KEEPING UP WITH THE ENGINEERS

• *New Developments in Radio*

IF OUR article in the September issue of this magazine gave the impression that the Midwest receiver was operated with two dials and consequently of older design, it was in error. A booklet just received from the Midwest Radio Corp., Cincinnati, Ohio, illustrates this popular set and shows it to be of the very latest in all-wave design. Among some of the distinctive Midwest features are the "Color-Lite" band selector. When the switch is turned to bring a certain band in operation, a colored light reflects on the dial to show just which band is coming in—blue for 15 to 30 meters, green for 30 to 75, red for 75 to 100 and white for 200 to 550. A "Stat-Omit" Tuning Silencer that is said to eliminate automatically all between-station noises, swishing, cracking and frying. A thermal fuse which blows instantly on short-circuit but blows on overloads only if the overload is continued long enough to endanger the apparatus. A dual-ratio tuning dial which can be shifted from fast to slow speed in an instant providing a choice of either 6 to 1 or 30 to 1. The Midwest is available in 9-, 12- and 16-tube models.

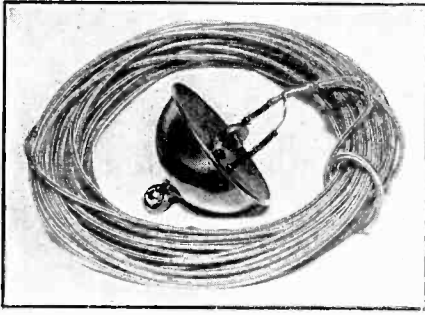
The Sparton "Multi-Wave"

Still another of the all-wave receivers is the Sparton, manufactured by the Sparks-Withington Co., Jackson, Mich. "The Sparton Model 26-AW Multi-wave Superheterodyne receiver," says the maker, "was designed to afford the owner entree to the unlimited entertainment provided by the short-wave channels below 200 meters in addition to that obtained on the regular broadcast band, and to do this quickly and easily without the necessity of changing coils. Two separate groups of tuning controls

are employed to accomplish this simplicity of operation—the upper set is used on the broadcast band and the lower set on short waves." The Sparton emphasizes its Lafoy automatic volume control which, it is said, can be set at any point and forgotten. A station may fade or increase and yet make but slight change in the sound output of the speaker. This set has a slight hiss on either side of the center of the station and by tuning in directly on the station and keeping between the hiss, the operator knows just when he is exactly tuned in on the station. The band separation of the Sparton in meters is as follows: 11 to 19, 19 to 41, 40 to 73, 81 to 200 and 200 to 545—550 to 26,000 kilocycles.

Uses Any Current

A single radio receiver which may be used with either a. c., d. c. or battery current is being produced by the Insuline Corp. of America, 23 Park Place, New York, N. Y. The "Universal Companion" is of the portable type weighing but sixteen pounds and may be set up instantly in the woods, on board ship, at the summer cottage or in the automobile. The change from one type of current to another is accomplished merely by inserting the plug into the proper socket. No change of tubes is necessary. Only a short antenna or ground connection is needed. A jack is provided for headphone use although the set has a built-in speaker. The tubes are two -36, three -37 and two -33. Single dial control. A set that will use any current that may be available and that is ready for use in an instant, ought to prove a boon to the real radio addict.



The Akaformer with Shielded Lead-in

The "Akaformer"

"Noiseless Reception at Last" is the enticing promise held forth by Amy, Aceves & King, Inc., of 11 West 42nd St., New York City, regarding their "AKAformer." Briefly, they say, the Akaformer is an impedance matching device which allows the use of shield lead-in wire of any length without loss of signal strength. The device is attached between the aerial wire proper and a shielded lead-in. The metal shield of the lead-in goes to the ground and the inner wire to antenna post.

The 'Rejectostatic' System

In the October issue, Jesse Lausman of Louisville, Ky., asked about the Kolster Rejectostatic system. A booklet just issued by the Kolster Radio, Inc., 67 Broad St., New York City, describes this system in detail, which it is claimed, eliminates 98% of man-made static. "Each time an electric light is switched on or off, each time a small motor starts or stops, each time a spark of any kind takes place," says this booklet, "electric waves are set up and if they reach a radio receiver direct or by way of the antenna or back through the power supply lines, they make themselves apparent by producing clicks, crashes, bangs and buzzes in the loud speaker. These noises are either intermittent or constant. A motor with a sparking commutator will produce a constant, grinding noise, a violet-ray machine a terrific mushy crackling of extreme intensity.

Street-car lines, electric trains, power lines, elevator motor circuit-breakers, dial telephones, vacuum cleaners and many other devices all help the vast background of disturbing noise known as man-made static.

"These interfering waves may reach the receiver through the power circuits by feeding back through the 110-volt connection in the base receptacle, through unshielded or improperly shielded coils or condensers, through exposed wiring, through exposed grid leads of the tubes in the set and through unshielded lead-in wires, and may also be carried into the set because of improperly located antenna."

How it Works

Kolster engineers after long study of this problem of electrical interference, have designed the "Rejectostatic" system of transmission line antenna. Briefly the system incorporates an aerial antenna, a device called the antenna rejectostat, a receiver rejectostat and a copper braided shielded lead-in. The antenna itself may be erected 100, 200 or even 1000 feet away from the set in the best possible location as high as possible and free and clear of all obstructions and possible sources of noise. At the base of mast or building nearest the set a lead-in from the antenna runs to the device called the Antenna Rejectostat. From this device one wire goes to the nearest good ground and the other through the shielded lead-in or transmission line cable goes to the second device, the Receiver Rejectostat. This transmission line can be buried in the ground or run to the set under the eaves of the house or in any convenient way for, as stated above, the length of this cable is immaterial. In other words, the antenna system may be located in an ideal place without being governed by the location of the set. Two other wires lead from the Receiver Rejectostat to the ground and aerial posts of the set.

With the conventional type of an-

(Continued on page 33)

INTEREST GROWS IN SHORT WAVES

All-Wave Sets are Helping

“IN ORDER to keep up with R-DEX, I am getting a new All-Wave set,” is the comment that comes to us from a number of readers. These late receivers with their convenient method of switching from one band to another, are enticing many people into the short wave field. A considerable number have written that they are awaiting the report of the Editor on his new SM-728-SW before changing to all-wave sets. This report will appear in the earliest possible edition. The Editor feels that in fairness to both his readers and the manufacturers of the particular set he is using, he should become thoroughly familiar with short wave operation, before attempting to set forth the results. One can test a broadcast receiver in an hour or two but no worth-while analysis of a short wave set can be made except after a very considerable experience.

Our readers with their greater experience in this fascinating part of radio, are much more competent to comment on short wave reception. Let us let them tell their stories.

From C. Edward Gates, 514 Ivy Street, Pittsburgh, Pa., who was one of the first pianists to broadcast over KDKA when ten and twenty miles were good DX, comes the following: “Your magazine is *great*. I consider it absolutely indispensable for DXing. And the list of short wave stations is the most accurate I have seen in any publication.” Mr. Gates has both a Pilot Super-Wasp and a Crosley 41-S. His log on the Crosley is slightly over the 600 mark. On the short wave receiver his log is as follows: VE9GW, VE1CO (Prince Edward Island), VE1BT, VE1BR, VE1DQ (Nova Scotia), VE1BF (Newfoundland), VE9DR, VE9CL, VE9AP, VE9BY, VE3BT, VE4AR, VE1GW, GBK, GBX, GBS, GBU, GBW, G5SW, GBF, GBP, G4BY, G4AO, GCA, LSX, LSN, LSY, LOM, LSH (Argentina), VK2ME, VK3ME (Australia), PCJ (Holland), DBJ, DGK, DJA (Germany), FYA (France), I2RO, I3RO, I1AX (Italy) HRB (Honduras), HKT, HKM, HKC (Columbia), TI4NRH (Costa Rica, VRT,

Radio listeners will learn their fine points of football from a master as Christy Walsh, sport writer and member of the All-America Board of Football, gives his weekly broadcast over the Columbia network each Friday at 9 p. m. EST.



ZFBI (Bermuda), EAQ (Spain) and the following with no call letters given: Rio de Janeiro, Geneva, Switzerland, Bangkok, Siam. Mr. Gates says he has received numerous ships at sea, the most thrilling being reception of a ship one Sunday afternoon that announced its location as "six hours out of Athens, Greece—I didn't get the call letters or name of the ship, but Boy, what a thrill." Mr. Gates states that for about two hours before totality during the recent eclipse, the Europeans just wouldn't come in but about one hour afterwards, they came in fine.

On the B. C. Band

From A. E. Armstrong, 2021 Bonita Drive, Glendale, California, comes this interesting report:

Possibly you will be interested to hear of my results on the Coast. I have been DXing on the broadcast band for the last six years and on the short waves for nearly a year. My present set is a 1931 Westinghouse WR6 and a Stewart-Warner short-wave converter. My aerial is 130 ft. and I use an ordinary water-pipe ground. To date I have a log, on the broadcast band, of 394, representing 44 states in the U. S., 22 stations in Canada, 21 in Mexico, Cuba 7, N. Z. 3, P. I. 1, Hawaii, 2,

Japan 11, Formosa 1, and Manchuria 1. I have 84 stations 100 watts or less. My best catches are: WLBK, WMBH, WDW, WGL, WSOC, WSPA, KZRM, CMCU (50 watts) and KEPL (when it was 15 watts).

With the Converter

On the short waves, during the last eleven months, I have logged, besides the American stations, many police, and amateurs in all districts of U. S., as well as Canada, Mexico, and Hawaii, the following foreign: Canada VE9CS, VE9CL, VE9JR, VE9GW, VE9BY, VE9DR; Mexico XEW, XDA, XAM; Costa Rica TI4NRH; Colombia HKC, HKF, HKM, HKX, HKD; Venezuela YV11BMO; Ecuador PRADO; Argentina LSX; Brazil PRDA, PSH; Hawaii KHK, KRO, KEQ, KDK; Australia VK2ME, VK3ME; New Zealand ZL2ZX; Russia RV15; Japan J1AA; Indo-China F3ICD; Java PLV, PLW; England GBW, G5SW; France FYA; Italy I2RO; Spain EAQ; Germany DJA.

After almost a year's experience with the short waves I find that Australia and Eastern Asia come in consistently the year round, probably a little better in the winter months. South America comes in best in the winter. Europe comes in best in the summer. The only consistent Euro-

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pean station seems to be FYA. I played England for the first time in July. In all G5SW was played about twenty times in July and August, once or twice with excellent volume, but mostly rather weak.

Five Europeans

"When I last wrote you in May regarding my DX activities," advises K. P. Williamson, 1610 Sherbrooke St., West, Montreal, Que. "I was operating with a 5-tube Echophone. Since then I have purchased a new set, a 7-tube Echophone with short-wave converter. My log for four months of active radio work is as follows: 340 stations, 45 states, nine countries. In the last ten days I have pulled in, on the shortwave band, stations G5SW, Chelmsford; DJA, Berlin; FYA, Paris; I2RO, Rome, and EAQ, Madrid, all clearly and with loudspeaker volume. Considering that first class DX weather is still another month or six weeks away, I think that the new set is capable of doing big things."

A Battery Converter

"For s. w. work, I use a Kent, battery-operated converter, using one 230 and one 232 tube," states G. H. Coyle, P. O. Box 4056, Jacksonville, Fla. "This converter is attached to my No. 95 Philco. The range is from 18 to 32 meters. So far I have tuned in VK2ME, VK3ME, EAQ, 2RO, G5SW, XDA, XAM, HJV, DBJ, TI4NRH, PRBA, VE9JR, a number of the U. S. stations and Pontoise, France—the latter on three frequencies." On the b, c. band Mr. Coyle has logged over 400. He has two aerials, one 150 long including lead-in, the other 350 feet with lead-in. For a ground he uses six pieces of water pipe spaced six feet apart, all connected with insulated copper wire.

A Report from England

From H. Appleby, Jr., Stanley House, Tynemouth Road, Wellington Quay, Northumberland, England, comes the information that he receives regularly the following Amer-

ican stations: W2XAF, W8XK, W1XAZ, W3XL, W3XAL, W2XAD and VE9GW, also Rio de Janeiro and Buenos Aires. All of these are received on a four tube receiver of his own construction. The aerial is 15 feet of bare wire slung across an attic.

"The second day I had my Pilot Super Wasp, I heard I2RO, Rome, Italy, and the next day I heard G5SW in England," says William T. Wright, 3rd, 89 Faneuil Place, New Rochelle, N. Y. He receives VE9GW with plenty of volume but hasn't been able to bring in VE9CL for months. Mr. Wright encloses a clipping from the New York Sun containing the time of VK2ME Sydney and VK3ME Melbourne. The former broadcasts on 31.28 meters on Sunday only from 2 to 4 a. m., 6 to 10 a. m. and 10:30 a. m. to 12:30 p. m. The latter transmits on 31.54 meters on Wednesdays between 6 and 7:30 a. m. and on Saturdays between 6 and 8 a. m.

Who Can Identify?

Information about two s. w. stations which he has heard about five p. m. CST, is asked by C. R. Anderson, 1026 First St., N. E. Mason City, Iowa. One of these after playing a number shouts out "Hullo Hullo America" between 15 and 30 meters. The other, also an English-speaking station, which he picked up Sunday morning, Oct. 2, after playing some selections quoted something about 25 cents in coins. This was between 30 and 50 meters. Mr. Anderson has a de luxe Lincoln with which he says he can pick up 100 watts in Long Island or California and 250 watts in Cuba.

Replying to the inquiry by Harold Wagner, Roger Causse, radio operator of the SS Thermo, says that it is KEE at Bolinas, Calif., which relays the chain program to Coco Head for the Honolulu chain station. This is a commercial station and will not verify but they will verify when they are using the call W6XI. For Archie Ferrie, Mr. Causse states that VE3EW

(Continued on page 31)

LOOKING OVER RADIO WITH THE EDITOR

WELL, the storm is over. For a time the editorial air was filled with hurtling brickbats and bouquets. Criticisms and commendations were in the mail. We seem to be just about where we were before the whole thing started. The critics and skeptics seem to have established these two points:

(a) Reception of certain stations may be very, very improbable.

(b) Verifications may be secured from stations which the recipients do not deserve.

On the other hand, the following principles seem to be equally well established:

(a) Radio reception cannot be calculated.

(b) Freaks in transmission permit occasional astonishing reception.

"I know from my own experience that it is possible to play with excellent reception some small far-away station, under perfect conditions, one night, and never duplicate it again." Thus writes A. E. Armstrong, 2021 Bonita Drive, Glendale, California. "So I cannot understand why DX fans—some of them—seek to pick flaws in the verifications of others."

Through the Barriers

This thought is illustrated by C. J. Dolph, Howell, Mich., who writes: "Several years ago, from Manistee County in western Michigan, I picked up the program of KFPM, Greenville, Texas, a fifteen-watter. The reception was clear and I verified by letter. I thought at the time that the station must have jumped up its power." Mr. Dolph never received the station again. What possible explanation can there be for occurrences like this? It is as though the barriers were suddenly broken down permitting some far-off station to come through for a time only to be shut off a few

minutes later never to come through again. When such a phenomenon occurs, when all the usual laws of radio transmission seem to be upset, can anyone say just which station can and which cannot come through?

Location Affects Distance

"A friend of mine lives about a hundred yards from me and I have doubled the distance of a radio set simply by taking it from my home to his," points out W. N. Bird, Floral Park, N. Y., who adds, "Please keep up the good reports from the DXers and never mind the disgruntled ones who think that any station they can't get can never be brought in by anyone else."

"Here's one for your 'Believe It or Not,'" writes B. L. Ahman, Jr., 3313 Westerwald Ave., Baltimore, Md., "I am in receipt of a verification from KLO, Ogden, Utah, which I received at 8:00 p. m. EST (5 p. m. MST) on September 19th while WCBM our local on 1370 and WTBO on 1420 and WHP on 1430 were broadcasting. Yet KLO on 1400 came through clearly for a fifteen-minute period then receded and I was unable to catch them again. Since it was still daylight in Utah and they use only 500 watts, I prize this as one of my best."

How a "Doubting Thomas" may change his point of view, is described by Charles Rowland, 257 Edison St., Pontiac, Mich. "I have been prompted to write by the current controversy in your pages. The poor old DXers are sure hearing plenty from the skeptics. One year ago when I read of Ollie Ross' record in your magazine, I wondered why the Lord gave Ananias the championship. But now I am glad I didn't voice my opinion for my first season's DXing has brought me a flock of verifications which the doubters might well question. Using a Philco 11-tube, I have listened to

stations from Prince Edward Island to Costa Rica and from Hawaii to Australia and New Zealand. How? By patience—trying for stations at hours when honest people were in bed, four and five o'clock nearly every other a. m. By trying every kind of antenna and ground. After three or four months of this effort you are finally rewarded by a few real catches and immediately you are criticised by some fellow who just turns the dials now and then."

An Alaskan Station

A sales prospectus issued by KFQD, Anchorage, Alaska, gives some idea of what radio must mean to the isolated communities of that territory. Following are some excerpts from letters received by KFQD: "—pounded down twenty miles of snow drifts today to hear KFQD," a trapper writes; "—your news items are a Godsend to this remote part of Alaska; my office is full of young and old," this from a postmaster; "—had the Eskimos in tonight to listen to your programs, but never again—I had a hell of a time getting them to go back to their village," a trader comments; a woman volunteers a five-dollar contribution and writes: "I do thank you with a grateful heart for the fine service and programs you are giving us far away Alaskans."

Two stations have been marked for deletion by the FRC. The first is WMRJ at Jamaica, N. Y., and the other WPSC, State College, Pa. The latter is an old station and it hardly seems likely it will be permitted to go by default although the license was cancelled because the applicants failed to appear at the hearing. Pending definite action, we are permitting both stations to remain in our lists.

What is said to be the first school of "Aerial Journalism" ever established, is announced by Oglethorpe University, Georgia. The University owns station WJTL which will be used in laboratory and class-room work. A two-year course prepares the student for the position of Pro-

gram Director. The three-year course qualifies the student for a position as Studio Manager. The student is led step by step from the first principle of addressing the microphone to the responsibility of directing a complete radio program.

"Having noticed a query in a recent number of RADEX relating to the location of Tuinucu, Cuba," writes Hedley Simmonds, 23 Clyde St., Hamilton, Ont., "I am sending on the following information contained in my verification of reception from the old station 6KW, now CMHC. It reads as follows: 'Tuinucu is a plantation town right in the heart of Cuba on 80 degrees west longitude and almost exactly midway between the north and south coasts of Cuba. If you can find Sancti-Spiritus on your map, Tuinucu is eight miles northeast of that city.' In other words, it is located in W-25 on the RADEX map."

"Tuning for CFRB last week, brought CKRO (?) indistinctly," says R. Rosenberger, 17 Janssen Place, Kansas City, Mo. "The announcer mentioned the Canadian National Railways and I think he said he was broadcasting from Montreal." The official Canadian list this month shows two new stations, CHCH at Montreal on 1200 and CHNC at Toronto on 840, but no CKRO on 690.

"I would like to make a correction in RADEX, where you list stations on 1430 kcys. (WHEC, WCAH, WHP, WOKO) as synchronized," suggests D. G. P. of Rochester, N. Y. "This is not so because these stations can broadcast their own local programs any time whenever they wish." Who can tell us if the arrangement for synchronization in this channel has been given up?

Here's a Good One

"Your letter has prompted us to schedule another all-night broadcast for Sunday, November 13th," writes KROW, 1520 Eighth Ave., Oakland, Calif. "This broadcast will begin at 1:00 a. m. of November 13th and

last until 4:30 a. m. PST. To avoid any possible confusion concerning the time of this broadcast let us explain that we sign off the air in favor of KFWI, San Francisco, at 11:00 p. m., November 12th, which is our regular schedule. We will then be back on the air at 1:00 a. m. Sunday morning with the DX special program which will be broadcast from our Oakland and San Francisco studios.

"It has been customary during our DX programs to answer requests of listeners made in foreign countries, thru short-wave operators. The requests are first phoned to the short-wave operator in the vicinity of the listener, who relays them to our local short-wave operators, who, in turn, phone the requests to our studio. On our November 13th broadcast, we will again answer these distant requests.

"The nature of this program will be a variety of jamboree including musicians and entertainers." So-o-o-o, as Ed Wynn says, watch for this big special Sunday morning, November 13th beginning at 4:00 a. m. EST, 3:00 CST, 2:00 MST and 1:00 PST.

From Hawaii

KGMB Honolulu write that they do not schedule any DX programs for the reason that, due to the difference in time, their regular programs are practically DX programs for dialers in the United States proper. They add: "We are always glad to answer fan mail when three cents in stamps are enclosed. We use 250 watts on 1932 kcs. We are on the air till midnight every night (PST) and 1:30 a. m. Sundays. We are picked up regularly by fans in the antipodes."

CMDC at Havana on 675 is reported by Frank Switalski, Jr., 2819 Victoria Ave., Cincinnati, Ohio, but the new Cuban official list gives no station on 675 and no CMDC.

Stuard B. Leland, 82 St. John Place, New Canaan, Conn., heard station WESG broadcasting on 1270 kcs. from their studios in one of the

hotels in Elmira, N. Y. He feels he could not have been in error as he held them from 3:30 p. m. until 5:00. He says their signals were entirely too strong for the 50 watts the FRC allows them. We have had no notice of the removal of this station from Glens Falls, to Elmira. Will some of our New York readers advise us about this? It hardly seems possible that WESG has changed location, frequency and power without notice from the Commission.

Trolley Troubles

"I live on a street where there is a trolley car," laments Eugene Delmore, 2247 N. 15th St., Philadelphia, Pa. "I get locals OK during the day but no distance whatever; in the evening I get some distance but always with a lot of static. When a trolley comes down the street, it makes a terrible noise until the trolley is away past." Mr. Delmore has an excellent receiver with a 20-foot aerial and 20 feet of shielded lead-in. The aerial is well insulated and carefully constructed; the ground is a cold water pipe. This listener wants to take up DXing in earnest but under his present conditions finds it next to impossible. If any of our readers have ever had a similar condition and have been able to overcome it, we would like to publish their experience for the benefit of Mr. Delmore and others. In the last issue we described at some length the Filterizer and in this issue, the Rejectostat, both of which aerial systems are devised to eliminate the evils of which Mr. Delmore complains. Have any of our readers made use of either of these devices?

The Battery Sets Next

In his article this month, Mr. Dashiell presents information regarding the latest information of sets available for those who are limited to the use of direct current. Next month we hope to give similar information for that great multitude who must still depend upon batteries for their radio.

OPENING A NEW SEASON *with the DXERS*

THAT new DX calendar is going over big and it is growing constantly. A lot of stations have not as yet arranged their winter schedule of special DX programs but promise to write us as soon as they do so so they can be scheduled in our calendar. We owe an apology to the users of the leatherette cover for printing this calendar where we have and we will have to find some other place for it next month. ~

"Just a line to let you know that this morning, October 2nd, thanks to your DX tips, I was able to pick up the broadcast of YV1BC at Caracas, Venezuela," acknowledges Bruce Vaughan, 1312 Tenth Ave., Huntington, W. Va. Among others reporting reception of this prize are Rudolph Kure, 3633 Vine St., Cincinnati, Ohio; Stanley A. Schmuch, 94 Otis St., E. Cambridge, Mass.; Walter W. Bronson, 1485 Chapel St., New Haven, Conn.; Frank Wheeler, 406 Eagle Point, Erie, Pa. On behalf of these DXers we want to thank the good friend who advised us of the Venezuela program in time for us to include it in the October calendar.

"I have had the thrill of my lifetime!" exclaims Russell Heller, 42 N. 5th St., Emaus, Pa. "On Sunday morning, October 2nd, I was doing a little dial twisting, when, to my surprise, I heard the announcement 'YV1BC broadcasting, Caracas, Venezuela.' I immediately sat down and took the program to verify. A short time before this I had received Mexico, stations XER and XEW. After YV1BC signed off, I tuned in another station. I waited a short time for the announcement and found I had WKAQ, San Juan, P. R. I also took this program to verify. After this station signed off, some electrical nuisance spoiled the rest of my DX-ing. On December 3rd, KOH will

run a special DX program. Do not as yet know the time."

"I sat up all night Saturday, October 1st," reports L. H. Donaghay, 222 Irving Ave., Bridgeton, N. J. "I added some nice catches: KTFL, Twin Falls, Idaho; YV1BC, Caracas, Venezuela; WKAQ, San Juan, Porto Rico; 10-AB, Moose Jaw, Sask., KVOR, Colorado Springs, Colo. and KSEI, Pocatello, Idaho." That's what we call a good night's work. Mr. Donaghay uses a five-tube Crosley "Littl-boy" Super. He now has 400 on his log with all the main ones verified. He has fifty 2000-milers verified.

Off to a Good Start

"I started the new DX season early Sunday morning, October 2nd, with lots of pep, although there was some interference caused by a transformer," reports Milford Voss, 1108 Wealthy St., Grand Rapids, Mich. "Besides numerous west coast stations I picked up CHML, a 50-watter in Hamilton, Ont.; CHGS, 100 watts at Summerside, P. E. I.; CHWC, 500 watts at Regina, Sask.; 10-AB, 25 watts at Moose Jaw, Sask.; WKAQ, 1000 watts at San Juan, P. R., and last but not least, YV1BC, Caracas, Venezuela, S. A."

"Living in an apartment, close downtown, with all the necessary and unnecessary man-made static, I haven't much chance to DX, but with my Sparton ten superhet, I have no kick whatever as to its performance in such an impossible place for reception," writes Eugene L. Beebee, 210 Franklin St. W., Jackson, Mich. "I have only a short picture molding antenna, and only by making a long run to a water pipe could I have that sort of ground, so merely use the steam pipe for same. Not so good, but any number of times I have been able to pick up KFI as early as 8:00

p. m. EST. XEW is a fairly reliable station if I could only understand their announcements. To date I have logged 122 stations, on the loud-speaker, and all necessarily before 11 p. m. I have no trouble separating XER from CKAC on one side and WSB on the other, with no cross talk except on nights of exceptionally poor reception when it is necessary to turn the volume control clear on."

Passes Good Thing Along

"I do not save my copies of RADEX," writes Dowling J. Couser, 376 Third St., Birmingham, Ala. "Instead I pass them on to new friends each month, with hopes that they, too, will become members of the RADEX family. I have an Atwater Kent console Model 55, equipped with seven Cunningham tubes. This set has been in operation for forty months and nothing has been replaced. I am enjoying perfect reception and have a log of some 200 stations. I still have my first 'across the deep blue sea' station to receive. I don't know why but I have never been able to reach beyond Canada. I guess it's because I am situated in the heart of the Birmingham steel industry. I would like to hear from other Atwater Kent owners."

In answer to B. L. Ahman of Baltimore, Clyde W. Ham, Shelby, N. C., reports that he is one below the Dixie line that has received WEXL. He counts them among his 200 verifications of 100-wattors and less. He also has 19 Westcoasters of 100 watts or less. He claims seven Australians, seven Japanese, four Zealanders, two Hawaiians, one Alaskan, two European, two South American and three Central American. Mr. Ham reports the T-PS coming through although the static is pretty heavy yet. He considers 2YA by far the best of the consistent stations in the Antipodes and would like to know what others in the East think. By the way, Clyde has worked out an effective way of attaching headphones to his Silver-Marshall G-6

which anyone may have for the writing.

Keeping track of the mileage of his log since 1925, R. A. Butts, 203 South Main St., Ellensburg, Wash., finds that he has traveled by air 18,-847,990 miles. He has tuned in but four trans-Pacific stations, all of them in 1926. He has used eight different types of sets. His ground is a copper plate and old B batteries. Mr. Butts suggests that we get out a large wall map for radio use. This we could hardly undertake. If, however, any of our readers want the big original map from which the RADEX map of the world was taken, they may secure one by sending 50 cents (not stamps) to the Hydrographic Office, U. S. Navy, Washington, D. C. This map shows all the time zones in colors.

"At present I am an enthusiastic BCL," advises E. Gordon Jones, Box 26, Winter Park, Fla., "who won't go out of his way, as far as unearthly hours are concerned, to receive DX programs, although I got an awful thrill last spring out of pulling KFI on ten consecutive nights with an Echophone midget 7-tube superhet, with a cold-water pipe connection on the antenna post. And about the same satisfaction came when I received KFI for two nights, listening to a full half-hour program on each occasion, unmarred by fading or distortion, on a Majestic auto radio, only last week."

Good Work in B. C.

WGH, Newport News, Va., writes to Gordon Wightman, 1171 West 32nd Ave., Vancouver, B. C., that his is their most distant report. This is certainly good distance for a hundred-watter. In June Gordon verified WICC, WHOM, WHP and WFEA. In July he had WSFA and WBNX and "this morning," he writes on Sept. 4th, "I pulled in WTBO, Cumberland, Md.; WMBH, Joplin, Mo., and WSPA, Spartanburg, S. C." That's pretty good summer DX. "Tell the fellows to try KGBU, Ketchikan,

Alaska, Sunday mornings up until 5:30 a. m. EST. They come in swell now and sound like a thousand watters instead of a 500."

With sixteen local stations within 25 miles, Bradley Brewer, 824 N. Crescent Heights Boulevard, Los Angeles, Calif., nevertheless has tuned in 203 stations in eighteen months. Among them are five Japs, nine Mexicans and six Canadians. He uses a Westerner 7-tube set, the circuit of which Bradley believes is identical with that of the Atwater Kent 55. He says it regenerates only from about 830 to 1500 kcs. and wants to know how he can make it cover the dial. Has any other reader improved his Westerner?

His First Season

"I have just completed my first season of DXing and ended up with the following results," informs Herbert Weidman, 508 So. Eastern Ave., Joliet, Ill. "460 stations logged; 430 stations verified; 135 100-watters or less; three 15-watters; one 10-watt. I have the following states complete: Colorado, Indiana, Kentucky, Louisiana, Nebraska, North Carolina, Utah, West Virginia, Manitoba. I have only five more to get in Texas and several states with only one more to get."

Bringing in 2YA on his very first early morning DX of the new season, set Murray D. Bryce, RMD 1, Royal Oak, Vancouver Island, B. C., off to a good start. It was his first Zealander. Mr. Bryce has a Browning-Drake regenerative set and would like some help from other owners of this set. His trouble is that 540 kcs. come in at 88-94 on his dials while 1370 comes in at 9-0. He is unable to get anything above 1370 and wants to know what change he must make in his wiring.

Just Found the Thrill

"I never knew there was such a thrill in pulling in low-powered and distant stations," writes a new DXer, Clyde F. Hall, Lewisburg, W. Va. He has an 8-tube Crosley and uses the entire surface of his metal lunch-car

in which his receiver is located, for an aerial. In the last two weeks, Mr. Hall has logged 19 Westcoasters and already has 39 states to his credit. He would like to hear from other Crosley users.

Six in One Morning

"On Saturday morning, October 1st, I received six Australian stations, four of which I had never heard before," reports Raymond Corbett, 619 Twelfth St., Sacramento, Calif. "They were 5CK, 2CO, 3AR, 6WF, 3LO and 4QG. This makes my log 265, and the thirty-fifth station I have received 2000 miles and over. The stations are sure coming in fast, and expect to have about 350 before the winter is over."

"I have a Radiola 60 that is three years old," informs Evelyn Smith, 92 Spring St., Portland, Maine. "I started in January, 1932, to get as many stations as I could and by March I had every state in the U. S., except eight. I have started tuning in again this week and hope to locate the remaining states. I also have to my credit, which I think remarkable, CMHI, Santa Clara, Cuba."

Picks the Hardest Ones

"I hope this DX season will be a great one for all," says Milford Voss, 1108 Wealthy St., Grand Rapids, Mich. "I now have 647 stations, with 290 verified, since last December. I have no shortwave set or converter, just a Majestic 91 eight-tube. I enjoy DXing more than anything else and pick the hardest places on the dial to get them."

"I am an ardent reader of RADEX and I don't know how anybody could get along without it," says George Burnett, 604 Sycamore St., Buffalo, N. Y. "I have been using an RCA Radiola 20 (5 tubes) and in less than a year have received 282 stations. The only foreign station I have received and verified is HIX."

"During the past two years I have logged 342 stations, including all of the west coast states, also Canada, Mexico, Cuba, Porto Rico, Haiti, Central and South America, all of

which were received between 540 and 1500 kcys.," reports Thos. G. Hoff, 3205 Elgin Ave., Baltimore, Md.

"In nine months of DXing, 433 b. c. stations and 23 police are my reward," exults Leo J. Halpin, 17 Minder St., Rochester, N. Y. Among his catches are YV1BC, WKAQ and VAS. This is a remarkable record.

Some Good Logs

"I am a new reader of your magazine and would like to hear from other DXers," says Manuel Velasques, 375 Bradford St., Brooklyn, N. Y. "I am using an Atwater Kent No. 55 and have logged 235 stations all on the loudspeaker."

Pulling in three Oceania stations within a single hour, was the unusual experience of Jim Blake, Box 868, Kenora, Ontario. Between four and five a. m. on Feb. 24th last, he received 3YA, 3LO and 2YA.

"My log is now 263 stations. Reception is fair. Chicago comes in at 7:30 to 8:30 p. m. but fades away about midnight," writes Stanley Brown, 467 Congregation St., Montreal, Que.

"I use a two-tube set (battery) and have 300 stations logged with 70 verifications from 41 states and five foreign countries," is the excellent record of G. Dana Boylan, 2205 Monroe St., Wilmington, Del. "Some of my best verifications are KGFK, a 50-watter in Moorhead, Minn., KABC, a 100-watter in San Antonio, XEN, XEW, KTM, KOY, HIX, CMC, CMCD, CHNS, VAS, CFBO and KFDR, a 100-watter in Lincoln, Nebr." For those who haven't yet logged Delaware, Mr. Boylan states that WDEL is on every night until 10 p. m. EST., and that WILM signs off every night at 9 p. m.

"On my home-made 3-tube set, in a year, I have had 307 stations in 47 states and on all frequencies from 540 to 1500," advises Walter W. Bronson, 1485 Chapel St., New Haven, Conn. "I am hoping to get Wyoming soon so as to have all the states."

Charles Meyer, Jr., 411 Blake St., St. Joseph, Mo., thinks blanks for reporting reception should be printed on government postal cards. Someone else thinks the report might be on a reply postcard with the one for verification attached. Either of these would be good for U. S. stations but would not be remailable from other countries. Charles counts WNBW and CKPR as the best of his 250 stations.

Wm. E. Gibbs, 649 Washington St., Camden, N. J., reports much trouble in securing verifications from Cuba and Mexico. Readers who are able to write Spanish say that verifications come in very much better when reports are made in that language. Looks like all DXers would have to learn enough Spanish to report reception. William has a 16-tube Midwest and would like to hear from other owners of the same receiver.

Should Changes Count?

"I think that if a station changes its call, it should be logged as a new station." David F. Thomas, Proctorville, Ohio, objects to one of the rules adopted by RADEX. On the other hand, Mr. Thomas says he doesn't log a station that moves to a new location. We still think credit should be given for logging a new location and not for logging an old location a second time under a new call.

"HHK is still broadcasting from 8 to 9 p. m. EST.," writes John H. Craig, 239 Oak St., Ridgewood, N. J. "Only yesterday I received a verification from them. They say that they broadcast a musical program and mixed with it is the gossip of Haiti. I wrote my letter to them in French and received my verification in less than two weeks." John's log now stands at 612 with 443 verifications.

"My official DX season began when I received the September RADEX," advises Herbert Van Duyne, PO Box 88, Towaco, N. J., "as I find it quite indispensable to a seasoned DXer like myself. Was particularly interested

in your new feature of giving their time on the air, and also the rather complete information on each station with regard to Ekko stamps."

Howard R. Garrett, 171 Hillsdale Ave., E., Toronto, Ont., is collecting not only verifications but merchandise as well. He has received a large box of biscuits from WCAP, a 20-peso bill from XEA, an airways pass from KFBI and twenty cents worth of stamps from KGHF. He would like to hear from other owners of Victor R-35.

"I think it would be a good addition for the DX fans," suggests A. Curror, 900 Lincoln Ave., Schenectady, N. Y., "to state what make of receiver they operate when giving their records. This, I think, would be inspiring for any reader who might have the same make and model of receiver."

A letter to Meyer Tuchinsky, 3436 Filbert St., Philadelphia, Pa., from VPN at Nassau, Bahamas, indicates that that station is no more. It reads in part, "The operations of this station were only experimental and have now been prohibited." "Tuch" reports a grand total of 669 verifications to date.

R. M. Ballard, Route 3, Visalia, Calif., asks "Who is WIBS on 548 and who is F9?" He reports all but JOPK received in Japan and has received both stations in Alaska recently. He uses a Philco 96.

On the Short Waves

(Continued from page 23)

calling W3RUX were two amateurs, the former being W. B. Clark, 48 Marmaduke St., Toronto.

Earl Roberts of Cambridge, Ohio, enters the lists for s. w. stations on a b. c. set with 13 police calls between 1558 and 1712 and 15 from 2414 to 2470. Then he has seven experimental and six airports. Earl reports that the call letters of the Iceland station are TFU and not TFA and that they are on 1200 meters and not 1200 kcs. They are on until

midnight their time which is three hours ahead of EST.

Harvey Kees, Beulah, N. Dak., has a log of eleven s. w. stations heard on a b. c. set without a converter—police stations in Los Angeles, Cincinnati, St. Louis, Michigan and Chicago and amateurs as far away as Indiana and Kansas. Mr. Kees reports hearing CKCK Regina on 730 kcs. Saturday, Oct. 1st.

"What station is WAT?" asks D. McNeil, 60 Chestnut Ave., Hamilton, Ont. "It is a police station close to WRDS," he adds. The official records show no WAT as yet.

Radio Personalities

(Continued from page 18)

which also features Freddie Rich's 35-piece orchestra, vocal soloists and ensembles.

Jay C. Flippen has played in every state in the country, and every town of 10,000 or more. . . . Has made records for three leading phonograph companies. . . . Is crazy about baseball and never misses a game at the Yankee Stadium. . . . Plays occasional golf and sometimes gets roped into a bridge game without too much enthusiasm. . . . Likes to watch prize-fights. . . . Gets his hair trimmed but once a month and never allows a pair of scissors to touch the locks on top. . . . His biggest thrill came when he played at the Garrick Theatre in Chicago, featured in "June Days," after the three years on Chicago lake boats when he had insisted that he would play there some day.

Lovable Dumbbell

(Continued from page 8)

chiffon gown with cherry sash over the sheet.

"Ask her what her brother looks like," whispered George helpfully. I did.

"My brother," drawled Gracie, "Why he looks just like Uncle Oscar ought to look."

I persisted. There must be some details.

"Well, how does your Uncle Oscar look? Is he tall or short, or bald-headed?" I continued.

"I don't know," said Gracie. "He never took his toupee off."

"What's your recreation?" I asked.

"I'd like to play a good game of bridge." This was Gracie.

"As things are now," confided George, "if she opens with two spades and everybody passes, Gracie doubles."

"I read a lot—everything from history to fiction," said Gracie, ignoring calumny.

This was too much for George.

"Do you like new writers or old ones?" he parried.

Gracie fell in through force of habit.

"Oh," she said, "I like old ones. My brother had new writers once and it was terrible."

My pencil was all worn out. I started to go.

"I'm having my portrait painted," Gracie called after me. "By Saint Armand."

"And she's all worked up about it," chimed in George.

Good Sets Go Wrong

(Continued from page 14)

mediate frequencies so as to replace the present -22s with some other tube to give better selectivity. These -22s do not give proper service and have to be replaced every three months. I use a 6-volt storage battery and power amplifier with two -81s and a power -50 tube. Can you suggest some efficient changes in this set?

You cannot well substitute any other type of tube for the -22s now used in your i. f. stages. The -24 tube comes nearest to being the proper substitute. It has a different base which can be taken care of by an adapter. But the -24 has an indirect heater and takes seven times the current that the -22 does, and with three of these tubes, such as used in your set, the drain on the battery would be excessive. The plates

take a higher voltage, and the screen-grids likewise. Additional connections would be necessary, and considering everything, we do not recommend the change.

In view of the frequent failure of these tubes we suggest that the resistors in series with the negative leads to the -22 tubes to reduce the A current down to 3.3 volts used on the filaments of -22s be tested. The proper resistance for each resistor is 15 ohms—exactly. Less than that will cause the filaments to be overloaded and shorten their life. You might try a -12A tube in place of the -40 detector. Other than this we see no way to improve on this particular circuit if it has been assembled properly.

The D. C. Models

(Continued from page 5)

standard cabinets at prices ranging from \$59.95 for the Baby Grand to \$100.00 for the new inclined sounding board model.

Atwater Kent presents their 110-volt d. c. models in styles 558 D. C. and 469 D. C. The former is a compact superheterodyne set using eight tubes—three -39s, one -37, one -36, one 85 and two 48s. There is a full-toned dynamic speaker, quick vision dial, automatic volume control and tone control. The cabinet is similar to model 627, alternating current, and is priced at \$68.90. The same set in a console cabinet, model 469 D. C., may be had for \$89.75.

RCA Victor expects to have a new d. c. model available within a few weeks which will be similar to model 71, a. c. mantel type, and using eight tubes. Many persons confuse all d. c. sets with battery sets, whereas a d. c. set is one that operates on the 110-volt d. c. lighting circuits in the home. Also, it should be remembered that in all d. c. sets the total number of tubes is always one less than those used in an equivalent a. c. receiver; for instance, an eight tube set is comparable to a 9-tube a. c. set since no rectifier tube is needed.

General Electric, at the present time, has no 110-volt d. c. receiver, for they feel that any of their a. c. sets can be converted over to d. c. by the local distributors when required. The older d. c. models, therefore, have been discontinued.

Kolster Radio has several a. c. models available for direct current. The model K 60 is a midget superheterodyne using seven tubes, and it lists for \$44.75. Model K 70 is a console 8-tube type that sells for \$64.75; model K 120 lists at \$81.75, and model K 130 9-tube console sells for \$112.25. The latter model is equipped with phonograph and short-wave converter attachments. All d. c. and a. c. models made by Kolster are fitted with the remarkable new Rejctostatic device for the control of outside electrical interferences and static.

The new Crosley d. c. model is called the Senator. It is a 110-volt d. c. superheterodyne receiver using seven tubes—three -36s, two -37s, and two -71As—and lists for \$69.95. Pilot Radio Corporation has two midget d. c. receivers—models S 156 and S 158. The makers of Majestic do not offer a d. c. receiver, and General Motors has retired from the radio set field and is showing no new models. Sparton has no new d. c. receiver, but will bring out a new battery set, while Stewart Warner is not in the 1933 d. c. field.

Photo is on Page 5

The Fada 110-volt d. c. receivers are models 171 and 173, both superheterodynes using eight tubes—four -36s, two -37s, and two 57s. A d. c. receiver is made by U. S. Radio and Television Corp'n., and is known as model 33, using six tubes in a tuned radio-frequency circuit.

In the all-wave and short-wave fields most sets are a. c. operated but having duplicates for battery power only. Hammarlund Roberts, makers of the Comet-Pro short-wave receiver, an a. c. superheterodyne, advise that experiments are now be-

ing conducted with 110-volt d. c. power and a receiver may be offered before long. National a. c. and battery short-wave sets are not made for d. c. operation. The same applies to Silver Marshall, Lincoln, Midwest and others. All radio makers now present one or more battery models which are widely used in d. c. and rural districts. These are designed principally for the Air-Cell battery and the 30 series of 2-volt tubes.

The Scott a. c. and battery receivers are not adapted to d. c. operation, but the manufacturers recommend the use of the Janette rotary converter when their a. c. all-wave set is to be used on d. c. lines. For the information of readers of RADEX the Janette Converter lists at about \$58.00 and develops an a. c. output of 150 watts at 110 volts and 60 cycles. It is available for operation on 32, 110 or 220 volts direct current, and the output is sufficient to operate the largest a. c. superheterodyne receivers.

With Radio's Engineers

(Continued from page 20)

tenna the receiver had to be located close to the antenna lead to avoid a long lead-in which tended to sap the signal strength due to its high capacity effect. With the Kolster Rejctostatic system, the set may be placed anywhere choosing the best possible location for the antenna with no bad effects from the long transmission line lead.

The Ozarka

A 16-tube broadcast receiver is presented by Ozarka, Inc., 1257 Fullerton Ave., Chicago, Ill. This company which has been manufacturing radio receivers since May 1st, 1921, counts its V16 as its greatest achievement. There are four 235, seven 227, three 245 and two 280 tubes. One of the 227's is used as local oscillator. Two of the 227s operate in parallel in the second detector circuit. After the second detector the system divides into two separate audio chan-

nels. In one channel a single 227 is used as an intermediate audio amplifier and in the other channel two 227s in parallel are used in the intermediate stage. Likewise, two of the three 245s are used in one audio channel and the third in the other channel. It will be noted that two 280 rectifier tubes are used.

Two Rola speakers are incorporated in the V16—one 10-inch for the bass and one 8-inch for the treble. These speakers are perfectly matched. As will be seen in the illustration, there are three controls; the center one for turning the illuminated, fre-

quency-calibrated dial; the one on the left controls a switch which provides for connecting a phonograph or television pick-up into the circuit; the volume control is on the right. The left control also governs the sensitivity of the set. Red and green lights are ingeniously provided as a "colortone control." To adjust the Ozarka V-16 to the exact pitch of the broadcast station, turn the knob until one-half of a slot of light is green and the other half red. Thus one does not need to depend upon the ear alone to tune the set at a point that will give the finest harmony.

The Month's Changes

POWER

570	KMTR	Hollywood, Calif., 1000 to 500
730	CMK	Havana, Cuba, 5000 to 3150
750	YOWR	St. John's, Nfld., 500 to 750
810	YOAS	St. John's, Nfld., 75 to 200
890	CKPR	Ft. William, Ont., 50 to 100
890	CMX	Havana, Cuba, 3000 to 500
893	YOGT	Wabana, Nfld., 100 to 400
930	CMJF	Camaguey, Cuba, 225 to 200
950	YONA	St. John's, Nfld., 30 to 100
965	CMBC	Havana, Cuba, 500 to 150
987	CMGF	Matanzas, Cuba, 50 to 100
1030	CMHI	Santa Clara, Cuba, 200 to 30
1040	CMGH	Matanzas, Cuba, 150 to 15
1125	CMHJ	Cienfuegos, Cuba, 75 to 40
1170	CMJE	Camaguey, Cuba, 20 to 50
1170	WCAU	Philadelphia, Pa., 10000 to 50000
1185	CMW	Havana, Cuba, 1500 to 1400
1210	CFNB	Fredericton, N. B., 50 to 100
1260	CMJI	Ciego de Avila, Cuba, 112 to 5
1365	CMCY	Havana, Cuba, 500 to 1000
1382	CMJC	Camaguey, Cuba, 75 to 150
1405	CMCH	Havana, Cuba, 100 to 30
1445	CMBN	Havana, Cuba, 65 to 30
1485	CMBR	Havana, Cuba, 15 to 40

FREQUENCIES

588	CMCJ	Havana, Cuba, from 630
630	CMCU	Havana, Cuba, from 1270
780	CMBS	Havana, Cuba, from 790
780	CMCQ	Havana, Cuba, from 1140
1020	XEFD	Tijuana, Mex., from 840
1125	CMHJ	Cienfuegos, Cuba, from 1150
1175	CMJE	Camaguey, Cuba, from 856
1260	CMJI	Ciego de Avila, Cuba, from 1335
1270	CMBD	Havana, Cuba, from 965
1270	CMCN	Havana, Cuba, from 925
1325	CMCR	Havana, Cuba, from 1345
1325	CMCW	Havana, Cuba, from 1270
1365	CMCY	Havana, Cuba, from 1355
1405	CMCH	Havana, Cuba, from 1395
1405	CMCM	Havana, Cuba, from 1395
1405	CMDB	Havana, Cuba, from 1395
1485	CMBR	Havana, Cuba, from 1500

NEW

588	CMDD	Havana, Cuba
834	CMGA	Colon, Cuba
840	CHNC	Toronto, Ont.

850	KIEV	Glendale, Calif.
910	VOGY	St. John's, Nfld.
925	CMDE	Havana, Cuba
965	CMAY	Havana, Cuba
1010	CMCX	Havana, Cuba
1110	CMJO	Ciego de Avila, Cuba
1115	VONF	St. John's, Nfld.
1115	XIEN	Neuvo Laredo, Mexico
1140	CMBJ	Havana, Cuba
1200	CHCH	Montreal, Que.
1210	KIEM	Eureka, Calif.
1210		Chester Twp., N. Y.
1225	CMRK	Cruces, Cuba
1240	CMJN	Camaguey, Cuba
1290	CMHL	Cienfuegos, Cuba
1310	CMJP	Moron, Cuba
1365	CMHF	Havana, Cuba
1420	WKEA	Hazleton, Pa.
1485	CMBK	Havana, Cuba

DELETED

580	CFCL	Toronto, Ont.
660	CMCO	Havana, Cuba
790	CMBT	Havana, Cuba
870	WBCN	Chicago, Ill.
990	WJEM	Tupelo, Miss.
1150	CMGI	Colon, Cuba
1395	CMCG	Havana, Cuba
1444	CMBI	Havana, Cuba
1500	CMBQ	Havana, Cuba

CALLS

940	XEFO	Mexico City, Mex., formerly XEO
1270	WESG	Ithaca, N. Y., formerly WEAI
1300	KALE	Portland, Ore., formerly KTBR
1310	WTRC	Elkhart, Ind., formerly WJAK
1370	WGLC	Glens Falls, N. Y., formerly WESG

LOCATION

1210	WJW	Akron, Ohio, from Mansfield, Ohio
1400	KLO	Salt Lake City, from Ogden, Utah

CHAINS

600	WICC	Bridgeport, Conn., new CBS
1200	WFAM	South Bend, Ind., new CBS
1300	KALE	Portland, Ore., new CBS

PERMIT TO INCREASE POWER

1150	WHAM	Rochester, N. Y., to 50000
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PERMIT TO CHANGE LOCATION

1350	KSO	Clarinda, Iowa, to Des Moines, Iowa
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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

Call	Dial	Call	Dial

Call	Dial	Call	Dial

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

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

MONDAY

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

R—Cheerio

CFCF CKGW KFYR KPRC KSTP
KTBS WAPI WBBN WCAE WCPFL
WKY WGSB WDAF WEAF WEEI
WFBR WFI WFPA WGY WJBA
WIOD WIS WJAR WJAX WJDX
WKY WOI WOV WPTF WRC
WVFA WSB WSM WSMB WTAG
WTAM WWJ WWNC

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

C—Little Jack Little

CFRB CKOK KFH KFJF KMBC
KTRH WAAB WABC WBCM WBIG
WBRC WBT WCAH WDAE WDBJ
WDOD WDOR WDRS WFSB WGAN
WPBL WFLA WGR WGST WHAS
WHCC WHF WJAS WKBN WLBW
WMAL WMBD WOKO WORC WPG
WQAM WSPA WSPD WTAQ WTAR
WTQC WWVA

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

B—Clara, Lu 'n' Em

KDKA KFYR KOA KOIL KPRC
KSL KSTP KYOO KWK WAPI
WBAL WBZ WBZA WCKY WDAY
WDEB WFAA WFLA WGAR WHAM
WIBA WIOD WIS WJAX WJDX
WJR WJZ WKY WMC WOI WPTF
WREN WRVA WSB WSM WSMB
WTMJ WWNC

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

C—Columbia Revue

CFRB CKOK KDYL KFAB KFBK
KFH KFJF KPRC KHJ KLRA KLZ
KOL KRLD KSCJ KTRH KYOR
WABC WBBM WBIG WBT WCAH
WCAO WDBJ WDO WDOE WDRS
WDSU WGAN WFAN WFBL WFLA
WGR WGST WHAS WHCC WIBW
WIP WISN WJAS WKBN WKBN
WLBW WMAL WNAC WNOX WNOX
WODX WOKO WORC WOVO WPG
WQAM WREC WSPA WTAQ WTAR
WTQC WWVA

B—National Farm and Home Hour

KDKA KFYR KOA KOIL KPRC
KSTP KTBS KTHS KYOO KWCR
KWK KYW WAPI WBAL WBCB
WBZ WCKY WDAF WDAY WEBZ
WFAA WFLA WGAR WHAM WHO
WIBA WIOD WIS WJAX WJDX
WJR WJZ WKY WLW WMC WOI
WOC WOV WPTF WRC WREN
WRVA WSB WSM WSMB WTMJ
WWNC

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

B—Little Orphan Annie

KDKA WBAL WBZ WBZA WJR
WJZ

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

C—Irene Beasley

CFRB CKOK KDYL KFAB KFH

KFJF KLRA KMBC KSCJ KTRH
KYOR WAAB WABC WBBM WBIG
WBRC WBT WDAE WDBJ WDOE
WDOD WDRS WDSU WFAN WPBL
WFLA WGST WHAS WIBW WIP
WISN WJAS WKBN WKBW WLBW
WMAL WNAX WNOX WOKO WORC
WOVO WQAM WREC WSPA WTAQ
WTAR WTOC

R—Waldorf-Astoria Orchestra

KSD KYW WBN WCAE WDAF
WEAF WEEI WFBR WGY WIOD
WJAR WMAQ WRC WSM WTAG
WWJ WWNC

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

C—Reis and Dunn

CFRB CKOK KDB KDYL KFAB
KFH KLRA KLZ KMBC KRLD
KSCJ KTRH WAAB WABC WBIG
WBRC WBT WCAH WCAO WDAE
WDBJ WDOE WDDO WDRS WDSU
WEAN WFAN WPBL WFLA WGR
WGST WHAS WHCC WHF WIBW
WIP WISN WJAS WKBN WKBN
WLBW WNAX WNOX WOKO WORC
WOVO WQAM WREC WSPA WTAQ
WTAR WTOC

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

C—Vaughn DeLeath

KLRA WAAB WABC WBIG WBRC
WDAE WDBJ WDOE WDOD WDSU
WFLA WGST WORC WOV WSPA
WTAR WTOC

R—Harding Sisters, Piano Duo

KSD KSTP WCKY WEAF WFBR
WFI WHO WIBA WIOD WJAR
WMAQ WMC WOC WRC WSB
WTAG WTAM WWJ WWNC

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

C—The Funnymen

CFRB CKOK KDYL KFAB KFH
KFJF KLRA KLZ KSCJ KTRH
WAAB WABC WBBM WBIG WBRC
WBT WCAH WCAO WCAU WDAE
WDBJ WDOE WDDO WDRS WFSB
WGAN WGST WHAS WHCC WIBW
WIP WISN WJAS WKBN WKBN
WLBW WLBW WNAX WNOX WOKO
WORO WOVO WQAM WREC WSPA
WSPD WTAQ WTAR WTOC WWVA

R—Donald Novis, Tenor

KDKA KEX KFTD KGA KJR KOA
KPO KSD WAPT WEAF WFBR WFI
WHO WIS WMAQ WOC WSAI WSB
WSM WWJ WWNC

B—Lowell Thomas

CKGW KDKA WBAL WBZ WBZA
WGAR WHAM WJR WJZ WLW
E-7:00 p.m., C-6:00, M-5:00, P-4:00

R—Harriet Lee and Her Leaders

KFI KFSB KGO KHQ KOA WBN
WEAF WJAR WMAQ WTAG

C—Myrt and Margo

CKOK KRLD WABC WADC WBT
WCAO WCAU WDRS WEAN WPBL

WGR WHK WJAS WKRC WMAL
WNAC WOKO WSPD WWVA

B—Amos 'n' Andy

CKGW KDKA WBAL WBZ WBZA
WCKY WFLA WGAR WHAM WIOD
WJAX WJR WJZ WLW WPTF WRC
WRVA

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

C—Sid Gary

CKOK KFAB KFBK KFH KFPY
KGB KLZ KMBC KMOX KOH
KRLD KSCJ KTRH KYI KYOR
WABC WACO WADC WBCM WBIG
WBRC WBT WCAH WCAO WCAU
WCOO WDBJ WDDO WDRS WEAN
WFBM WGR WISN WJAS WKBN
WLAC WLBW WLBZ WML WMT
WNAC WNAX WNOX WOKO WORC
WQAM WJSJ WTAQ WTAR WWVA

R—Wheatenaville, Ray Knight

KHQ WDAF WEAF WEEI WGY
WHO WJAR WLIT WMAQ WOV
WOW WRC WTAM

B—Tastyest Jesters

KDKA WBAL WBZ WBZA WCKY
WJZ

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

C—Three X Sisters

WABC WCAO WCAU WDRS WEAN
WPBL WFLA WGR WHCC WHF
WJAS WLBZ WMAL WNAC WOKO
WORC

R—Billy Jones and Ernie Hare

WBN WCAE WCSI WDAF WEAF
WEEI WFBR WFLA WGY WIOD
WIS WJAR WLIT WMAQ WOV
WRC WRVA WSAI WTAG WTAM
WTC WWNC

B—Stebbins Boys

KDKA KFI KGO KGW KHQ KOA
KOMO KSL KWK WBAL WBZ
WBZA WCKY WENR WGAR WHAM
WJR WJZ WREN

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

C—Tito Guizar, Tenor

CFRB CKOK KFAB KFH KLZ
KMBC KRLD KSCJ KTRH WABC
WBBM WBCM WBIG WDAE WBT
WCAH WCAO WCAU WDBE WDBJ
WDOE WDDO WDRS WEAN WPBL
WFBM WFLA WGR WGST WHAS
WHCC WHK WHF WISN WJAS
WKBN WMAL WNAC WNAX WNOX
WODX WOKO WORC WQAM WREC
WSPA WSPD WTAQ WTAR WTOC
WWVA

R—The Goldbergs

KSD WBN WCAE WCSI WDAF
WEAF WEEI WENR WFBR WGY
WJAR WLIT WOW WRC WSAI
WTAG WTAM WWJ

B—Johnny Hart in Hollywood

WBZ WBZA WGAR WHAM WJZ
WMAQ

MONDAY—Continued

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

CKOK KMBC KMOX KRLD KTSB
WABC WADC WBBM WBT WCAO
WCAU WCCO WDRR WDSU WEAN
WFBL WFBM WGR WHAS WHK
WJAS WKRC WLAC WMAL WNAC
WOKO WSPD

R—Soconyland Sketches

WBEN WCSH WFAF WEEI WGY
WJAR WTAB WTIC

B—Carnation Contanted Program

CFCC CKGW KDKA KFJR KOIL
KPRC KSTP KVOO KWK WBAL
WCKY WEBC WFAA WFLA WHAM
WIOD WJAX WJZ WKY WLS WMC
WQAI WPTF WREN WRVA WSB
WSM WTMJ

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

CKOK KMBC KMOX WABC WADC
WCAO WCAU WCCO WDRR WEAN
WFBL WFBM WGN WGR WHK
WJAS WKRC WMAL WNAC WOKO
WSPD

E-8:30 p.m., C-7:30, M-6:30, P-5:30
C—Kate Smith, La Palina

CKOK KFAB KFJF KMBC
KMOX WABC WADC ABCM WCAH
WCAO WCAU WCCO WFBL WFBM
WGN WGR WHAS WHEC WHK
WISN WJAS WKBN WKRC WMAL
WOKO WSPD

R—The Revelers, Quartet

CFCC CKGW KPRC KSD KTBS
KTHS KVOO WAPI WBEN WCAE
WCSH WDAF WFAF WEEI WFAA
WFBF WFLA WGY WHO WIOD
WIS WJAR WJAX WJDX WKY
WLIT WMAQ WMC WQAI WOC
WOW WPTF WRC WRVA WSAI
WSB WSM WSMB WTAB WTAM
WTIC WWJ WWNC

B—Red and Ramona

KDKA KFJR KOIL KWCR WBAL
WBZ WGAR WHAM WIBA WJZ
WLS WREN WTMJ

E-8:45 p.m., C-7:45, M-6:45, P-5:45
C—Fu Manchu Mystery Drama

CFRB CKOK KFBK KFH KFPY
KGB KLRA KLZ KMBC KMOX
KOH KSCJ KTRH KVI KFOR WABC
WADC WBCM WBIG WBRB WBT
WCAH WCAU WCCO WDBJ WDOD
WEAN WFBM WFEA WGR WISN
WJAS WKBW WLAC WLWB WLZ
WMBD WMT WNAC WNAX WNOX
WORC WOW WPG WQAM WREC
WSBT WSJS WTAQ WTAR

B—Pat Barnes in Person

KDKA WBAL WBZ WBAZ WGAR
WHAM WJR WJZ WLS WLW

E-9:00 p.m., C-8:00, M-7:00, P-6:00
R—A. & P. Gypsies

KSD WBEN WCAE WCSH WFAF
WEEI WGY WHO WJAR WLIT
WMAQ WOC WOW WRC WSAI
WTAB WTAM WTIC WWJ

B—Sinclair Wiener Minstrels

KDKA KFJR KOIL KPRC KSTP
KTBS KVOO KWCR KWK WBAL
WBZ WBAZ WDAY WEBC WFAA
WFLA WGAR WHAM WIBA WIOD
WIS WJAX WJDX WJZ WKY WLS
WMC WQAI WPTF WREN WRVA
WSB WSM WSMB WTMJ WWNC

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

CKOK KMBC KMOX WABC WADC
WCAO WCAU WDRR WEAN WFBL

WGN WHAS WHEC WHK WJAS
WKBW WKRC WMAL WNAC WOKO
WSPD

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C—Evening in Paris Mystery

CKOK KMBC KMOX WABC WADC
WBT WCAO WCAU WCCO WEAN
WFBL WGN WHAS WHEC WHK
WKBW WKRC WMAL WNAC WOKO
WOW WSPD

R—Parade of the States

CFCC CKGW KDYL KFI KFJR
KGR KGO KGW KHQ KOA KOMO
KPRC KSD KSTP WBEN WCAE
WCSH WDAF WFAF WEEI WENR
WFAA WFBF WGY WHO WJAR
WKY WLIT WMC WQAI WOC
WOW WRC WSAI WSB WSM WTAB
WTAM WTIC WTMJ WWJ

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C—Music That Satisfies

CKOK KDB KDYL KERN KFBK
KFH KFJF KFPY KFRG KGB KHJ
KLRA KLZ KMBC KMJ KMOX
KOH KOIN KOL KRLD KTRH KTSB
KVI KWG WABC WADC WBRB
WBT WCAO WCAU WCCO WDBJ
WDRR WDSU WEAN WFBL WFBM
WGN WGST WHAS WHEC WHK
WISN WJAS WKBW WKRC WLAC
WLZB WMAL WMBG WMT WNAC
WOKO WOW WPG WREC WRUF
WSPD WTAR

R—National Radio Forum

KFSD KFYR KGHF KGR KGO
KGW KOA KOMO KPRC KSD KSL
KSTP KTBS KVOO WBEN WCSH
WDAF WFAF WEBC WEEI WENR
WFLA WGY WHO WIBA WIOD
WJAR WJDX WKY WLIT WMC
WQAI WOC WOW WPTF WRC
WRVA WSAI WSB WSM WTAB
WTAM WWJ WWNC

B—Phillips Lord, Country Doctor

CFCC CKGW KDKA KOIL KWCR
KWK WBAL WBZ WBZA WCKY
WGAR WHAM WJR WJZ WMAQ
WREN

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

CFRB CKOK KDB KERN KFBK
KFPY KFRG KGB KHJ KLZ KMBC
KMJ KMOX KOIN KOL KSL KVI
KWG WAAB WABC WADC WCAO
WCAU WCCO WDRR WEAN WFBL
WFBM WGN WHAS WHK WJAS
WKBW WKRC WMAL WOKO
WOW WSPD

E-10:30 p.m., C-9:30, M-8:30, P-7:30
B—Dramatic Sketch

CFCC KDKA KFJR KOIL KTBS
KWCR KYW WBAL WBZ WBZA
WCKY WGAR WHAM WIBA WIOD
WIS WJAX WJDX WJR WJZ WKY
WMC WREN WSB WSM WWNC

C—Charles Carlile, Tenor

KLRA WAAB WABC WDAE WDBJ
WDBO WDOD WDRR WDSU WFEA
WGST WLAC WLZB WORC WQAM
WREC WSFA WSJS WTAR WTOC

E-10:45 p.m., C-9:45, M-8:45, P-7:45
C—Myrt and Marge

KDB KERN KFBK KFPY KFRG
KGB KHJ KLZ KMBC KMJ KMOX
KOIN KOL KSL KVI KWG WBBM
WCCO WDSU WFBM WTAS WLAC

C—Col. Stoopnagle and Budd

CFRB CKOK WAAB WABC WADC
WBCM WDRR WFBL WFEA WHEC
WHK WJAS WKBW WLZB WOKO
WORC

B—Mildred Bailey

CFCC KDKA KSTP KTBS KWCR
WBAL WCKY WGAR WHAM WIBA
WIOD WIS WJZ WKY WMAQ WMC
WREN WWNC

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

KPRN KFBK KFPY KFRG KGB
KHJ KLZ KMJ KOIN KOL KSL
KVI KWG

C—Howard Barlow's Symphony

CFRB CKOK KLRA KLZ KMBC
KSCJ KTRH KFOR WAAB WABC
WACO WADC WBCM WCAH WCAO
WDAE WDBJ WDBO WDOD WDRR
WDSU WFAN WFBL WFBM WFEA
WGST WHAS WHEC WHK WHP
WIBW WIP WISN WKBW WKRC
WLAC WLZB WMAL WMT WNAX
WOKO WORC WPG WQAM WREC
WSBT WSFA WSJS WTAR WTOC

B—Amos 'n' Andy

KDYL KFI KFSB KGO KGW KHQ
KOA KOIL KOMO KPRC KSTP
KTHS KWK WBAF WDAF WEBC
WENR WIBA WJDX WKY WMAQ
WMC WQAI WREN WSB WSMB
WSMB WTMJ

R—William Scotti and Orchestra

CFCC WFAF WEEI WFBF WFLA
WHO WIOD WIS WJAR WLIT WOC
WRC WTAB WTAM WTIC WWJ
WWNC

E-11:15 p.m., C-10:15, M-9:15, P-8:15
R—Billy Jones and Ernie Hare

KDYL KFI KFSB KGO KGW KHQ
KOA KOMO KTRR

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

CFRB CKOK KFH KLRA KLZ
KMBC KSCJ KTRH KFOR WAAB
WABC WACO WADC WBCM WCAH
WCAO WCAU WCCO WDAE WDBJ
WDBO WDOD WDRR WDSU WGST
WHAS WHEC WHK WHP WIBW
WISN WKBW WKRC WLAC WLZB
WMAL WMBD WMT WNAX WOKO
WORC WPG WQAM WREC WSBT
WSFA WSJS WTAR WTOC

R—Ben Bernie and Orchestra

WFAF WEEI WFBF WJAR WLIT
WRC WTAB WTIC

E-12:00 m., C-11:00, M-10:00, P-9:00
C—Eddie Duchin and Orchestra

CKOK KDYL KFAB KFBK KFH
KFJF KLR KMA KMBC KMOX KOL
KRLD KSCJ KTRH KFOR WABC
WBCM WBRB WBT WCAH WCAU
WCCO WDAE WDBJ WDBO WDOD
WDSU WEAN WFBL WFBM WGL
WGST WHAS WHEC WHK WIBW
WISN WKBW WKBW WLWB WMAL
WMBDWNAC WNAX WNOX WOKO
WPG WQAM WREC WSFA WSPD
WTAR WTOC WWVA

B—Clyde McCoy's Orchestra

KDKA KWCR KYW WBAL WJZ
WRC

R—Roger Wolfe Kahn Orchestra

CKGW KFYR KPRC KSTP KTBS
WAPI WCAE WCKY WDAF WDAY
WEAF WENR WFBF WFLA WHO
WIBA WIOD WIS WLIT WMAQ
WMC WOC WRVA WSB WSMB
WTAM WWJ WWNC

E-12:30 a.m., C-11:30, M-10:30, P-9:30
B—Low Diamond's Orchestra

KOIL KTBS KWCR KYW WBAL
WHAM WJR WJZ WKY WLW
WRC WREN

TUESDAY

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

H — **Cheerio**, See Monday

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

C — **Little Jack Little**, See Monday

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

B — **Clara, Lu 'n' Em**, See Monday

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

C — **Columbia Revue**, See Monday

B — **National Farm and Home**, See Mon.

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

B — **Little Orphan Annie**, See Monday

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

C — **Current Events, Kaltenborn**

CKOK KFH KGB KLZ KMBC KOH
KSCJ KTRH KVOR WAAB WABC
WACO WDAE WDBJ WRB WCAH
WCAO WDAE WDBJ WRB WDOO
WDRC WFAN WFBL WFEA WHAS
WHBC WIBW WTP WISN WJAS
WKBW WRB WLAC WLWB WLZ
WMAF WMT WNAQ WNOX WOKO
WORC WOV WQAM WRC WSBT
WSFA WSJS WTAQ WTAR WTOC
WVVA

R — **Waldorf-Astoria Orch.**, See Mon.

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

C — **Jack Miller and Orchestra**

KLRA WABC WBIG WBRC WDBJ
WDBO WDOD WDSU WFEA WGST
WNOX WORC WRBC WFTA WTAR
WTOC

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

R — **Back of the News in Washington**

KFI KFSB KGHL KGIR KGO KOA
KSD KTAR WAPI WFAF WFBR
WFI WIOD WIS WJAR WJDX
WMAQ WOV WPTF WRC WSM
WSMB WTAG WNNC

B — **Lowell Thomas**, See Monday

C — **Keenan and Phillips**

CKOK KFH KIZ KMBC KSCJ
KTRH KVOR WAAB WACO WADC
WBCM WCAH WCAO WDAE WDBJ
WDBO WDOD WDSU WFBM WFEA
WGST WHAS WHP WISN WJAS
WKBW WKRC WLAC WLWB WLZ
WMT WNAQ WOV WQAM WREC
WSBT WSJS WTAQ WTAR WTOC

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

R — **Mid-Week Hymn Sing**

KFI KGIR KGO KOA KSD KTAR
WAPI WBN WFAF WJAR WJDX
WMAQ WSAI WSMB WTAG

C — **Myrt and Marge**, See Monday

B — **Amos 'n' Andy**, See Monday

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

R — **Ray Knight**, See Monday

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

R — **Ray Perkins**

KSD KYW WBN WCAE WCSH
WFAF WFEI WFBR WFI WGY
WHO WJAR WOC WOV WRC WSAI
WTAG WTAM WWJ

B — **Stebbins Boys**, See Monday

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

C — **Chase & Sanborn, Georgie Price**

CKOK KMBC KMOX WABC WBBM
WCAO WCAU WGR WHK WJAS
WKRC WNAC WOKO

B — **The Goldbergs**, See Monday

B — **Joliny Har!** See Monday

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

R — **Blackstone, Sanderson-Crumit**

KSD KSTP KYW WBN WCAE
WCSH WDAF WFAF WFBC WFEI
WFI WGY WHO WJAR WOC WOV
WRC WSAI WTAG WTAM WWJ

B — **You and Your Government**

CFCF CKGW KDKA KDYL KEX
KFSB KGIR KJR KOA KOIL KPO
KTAR KTBS KWCR KWK WBAL
WBZ WBZA WCKY WENR WFLA
WGAR WHAM WIOD WIS WIZ
WKY WMC WPTF WREN WSB
WSM WNNC

C — **Abe Lyman and Orchestra**

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

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

C — **Edwin C. Hill**

CKOK KMBC KMOX KRLD K TSA
WABC WADC WBBM WBT WCAO
WCAU WCCO WDRC WDSU WEAN
WFBL WFBM WGR WHAS WHK
WJAS WKRC WLAC WMAL WNAC
WOKO WSPD

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

C — **Kate Smith**, See Monday

B — **Adventures in Health**

KDKA KOIL KWCR KWK WBAL
WBZ WBZA WHAM WJR WJZ WLS
WREN

R — **Wayne King and Orchestra**

KSD WBN WCAE WCSH WFAF
WFBM WFEI WFBR WFI WGY WHO
WJAR WOC WOV WRC WRVA
WSAI WTAG WTAM WTAM WWJ

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

C — **Musical Fast Freight**

CKOK KFH KFJF KLRA KMBC
KMOX WAAB WABC WADC WBBM
WCAO WCAU WCCO WDAE WDBJ
WDBO WDRC WEAN WFBL WFBM
WHK WJAS WKBW WKRC WMAL
WOKO WOVO WQAM WSPD WTOC

B — **Pat Barnes**, See Monday

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

C — **Music That Satisfies**

CKOK KDB KERN KFBK KFH
KFJF KPYP KFCR KGB KHJ KLA
KLZ KMBC KMI KMOX KOH KOIN
KOL KRLD KSL KTRH KYI KWG
WABC WADC WBRB WBT WCAO
WCAU WCCO WDOD WDRC WDSU
WEAN WFBL WFBM WGN WGST
WHAS WHBC WHK WISN WJAS
WKBW WKRC WLAC WLWB WMAL
WMBG WMT WNAQ WOKO WOVO
WPG WRC WSPD WTAR

R — **Ben Bernie and Orchestra**

KFYR KOA KPRC KSTP WRAP
WBN WCAE WCKY WCSH WDAF
WDAY WFAF WFEI WFBM WFI
WGY WHO WJAR WKY WLS WMC
WOAI WOC WOV WRC WRVA WSAI
WSB WSM WSMB WTAG WTAM
WWJ

B — **Musical Memories**

KDKA 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
KFJF KPYP KFCR KGB KHJ KLA
KLZ KMBC KMI KMOX KOIN
KOL KRLD KSL KTRH KYI KWG
WABC WADC WBRB WBT WCAO
WCAU WCCO WDOD WDRC WDSU
WEAN WFBL WFBM WGN WGST
WHAS WHK WJAS WKBW WKRC
WLAC WMAL WNAC WOKO WOVO
WSPD WTAR

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

C — **Eno Crime Club**

CKOK KMBC KMOX WABC WADC

WCAO WCAU WDRC WEAN WFBL
WGN WHK WJS WKBW WKRC
WMAL WNAC WSPD

R — **Ed Wynn-Don Voorhes**

CFCF KFI KFSB KFYR KGHL
KGIR KGO KGW KHQ KOA KOMO
KPRC KSD KSL KSTP KTAR KTBS
KVVO WBAP WBN WCAE WCSH
WDAF WDAY WFAF WFBM WFEI
WFBE WFI WGY WHO WHA
WIOD WIS WJAR WJAX WJDX
WKY WMAQ WMC WOAI WOC
WOW WPTF WRC WRVA WSAI
WSB WSMB WTAG WTAM WTAM
WWJ WNNC

B — **Friendship Town**

KDKA KOIL KWK KYW WBAL
WBZ WBZA WGAR WHAM WJR
WJZ WREN

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

C — **Jay C. Flippen-cies**

CFRB CKOK KDYL KFAB KFBK
KFH KEJF KFJF KHJ KLRA KLZ
KMBC KMOX KOL KRLD KTRH
KVOR WABC WACO WBCM WBIG
WBRC WBT WCAH WCAO WCAU
WCCO WDAE WDBJ WDBO WDOO
WDRC WDSU WFBL WFBM WFEA
WGL WGST WHAS WHEC WHP
WIBW WISN WJAS WKBW WKBW
WKBW WMAL WNAC WNAQ WNOX
WODX WORC WQAM WREC WRUF
WSPD WTAQ WTAR WTOC WVVA

R — **Lucky Strike Dance Hour**

KFI KFSB KFYR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR KTBS KTHS KVVO WBAP
WBN WCAE WCSH WDAF WDAY
WFAF WFBM WFEI WENR WFBR
WFI WFLA WGY WHO WJAX WIOD
WIS WJAR WJAX WJDX WKY
WMC WOAI WOC WOV WRC WRVA
WSAI WSB WSM WSMB WTAG
WTAM WTAM WWJ WNNC

B — **Phillips Lord**, See Monday

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

B — **Sigmund Spaeth, Tune Detective**

CFCF KWCR WBZ WBZA WGAR
WJZ

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

B — **Dramatic Sketch**, See Monday

C — **Charles Carlile**, See Monday

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

C — **Myrt and Marge**, See Monday

B — **Jane Froman and Orchestra**

CFCF KWK WBAL WCKY WGAR
WJR WJZ WLW WREN

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

C — **Columbia Sympn. Orch.**, See Mon.

B — **Amos 'n' Andy**, See Monday

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

B — **National Grand Opera**

CFCF CKGW KFYR KGIR KOA KPO
KPRC KSTP KTBS KWK WBAL
WBZ WBZA WCKY WCBM WENR
WFLA WGAR WHAM WJAX WIS
WJR WJZ WKY WMC WRC WREN
WSM WNNC

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

C — **Isham Jones and orchestra**

CFRB CKOK KFH KLRA KMBC
KSCJ KTRH KVOR WAAB WABC
WACO WADC WBCM WCAH WCAO
WCAU WCCO WDAE WDBJ WDBO
WDOD WDRC WDSU WGST WHEC
WHP WISN WKBW WRC WLAC
WLBC WMAL WMBD WMT WNAQ
WOKO WORC WPG WQAM WREC
WSBT WSFA WSJS WTAR WTOC

TUESDAY—Continued

E-12:00 m., C-11:00, M-10:00, P-9:00
C — Don Redman and Orchestra
 CKOK KLZ KMBC KMOX KSCJ
 KTRH KVCR WABC WBCN WCAH
 WCAU WCOO WDSU WFBL WGST
 WHAS WHFC WHP WIBW WISN
 WKBW WKRC WLAC WMBD WMT
 WNAX WOKO WPG WRFC WSBT
 WTOG
R — George Olsen and Orchestra
 WCAE WFAF WFBR WGY WMAQ
 WTAM WWJ WWNC
B — Paul Whiteman and Orchestra
 KDKA KWCR KWK WBAL WBZ
 WBZA WENR WGAR WJZ WRC
 WREN WTMJ
E-12:30 a.m. C-11:30, M-10:30 P-9:30
R — Ben Bernie and Orchestra
 KDYL KFI KFSD KGO KGW KHQ
 KOA KOMO KTAR

WEDNESDAY

E-8:30 a.m., C-7:30, M-6:30, P-5:30
R — Cheerio, See Monday
E-9:00 a.m., C-8:00, M-7:00, P-6:00
C — Little Jack Little, See Monday
E-10:15 a.m., C-9:15, M-8:15, P-7:15
B — Clara Lu 'n' Em, See Monday
E-12:00 p.m., C-11:30, M-10:30, P-9:30
C — Columbia Revue, See Monday
B — National Farm and Home, See Mon.
E-5:45 p.m., C-4:45, M-3:45, P-2:45
B — Little Orphan Annie, See Monday
E-6:00 p.m., C-5:00, M-4:00 P-3:00
B — B. A. Rolfe and Orchestra
 WBAL WCKY WGAR WJZ WLW
 WMAQ WREN
R — Waldorf-Astoria Orch. See Monday
C — Vaughn DeLeath
 CFRB CKOK KFI KLZ KSCJ KTRH
 KVCR WAAB WABC WACO WADC
 WBCN WCAH WCAO WDAE WDBJ
 WDBO WDOD WDRC WDSU WFAN
 WFBL WFLA WGST WHAS WHFC
 WHK WLP WISN WJAS WKBH
 WKBW WLAC WLWB WLZ WMAL
 WMT WNAX WOKO WQAM WRFC
 WSBT WSPA WSJS WTAQ WTR
 WTOG WYVA

E-6:30 p.m. C-5:30 M-4:30 P-3:30
C — William Vincent Hall
 KLRA WAAB WABC WBIG WBRC
 WDAE WDBJ WDBO WDOD WDSU
 WFEA WGST WORC WREC WSPA
 WTAQ WTOG
B — Sheer Romance
 KDKA KOIL WBAL WHAM WJZ
 WMAQ WREN
R — Harding Sisters See Monday
E-6:45 p.m., C-5:45, M-4:45, P-3:45
C — Funnyboners, See Monday
R — Donald Novis, See Monday
B — Lowell Thomas, See Monday

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

E-7:15 p.m. C-6:15, M-5:15, P-4:15
B — Royal Vagabonds, Ward Wilson
 KDKA KFI KGO KGW KHQ KOA
 KOIL KOMO KPRC KWK WAPI
 WBAL WBZ WBZA WCKY WECB
 WGAR WIOD WJAX WJDX WJZ
 WKY WMAQ WMC WQAI WPTF
 WREN WRVA WSB WSM WSMB
 WTMJ WWNC

R — Ray Knight See Monday
E-7:30 p.m., C-6:30, M-5:30, P-4:30
B — Stebbins Boys, See Monday
C — Three X Sisters, See Monday
R — Jones and Hare, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — Angelo Patri
 CKOK KMBC KMOX WABC WCAO
 WCAU WCOO WFBL WGR WHAS
 WHK WJAS WKRC WMAL WNAC
R — The Goldbergs, See Monday
B — Johnny Hart, See Monday

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Edwin C. Hill, See Monday
R — The Shadow
 WBEN WCSI WFAF WEEI WFBR
 WGY WJAR WLIT WRC WTAG
 WTIC

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 Monday
B — Jack Frost Melody Moments
 KDKA WBAL WGAR WHAM WJR
 WJZ WLS WLW

E-8:45 p.m., C-7:45, M-6:45, P-5:45
C — Musical Fast Freight, See Tuesday
R — Whitman's Sampler, Jack Denny
 KPRC KSD KTBS KVOO WBEW
 WCAE WCKY WFAF WFAA WFBR
 WFLA WGY WHO WIOD WIS WJAX
 WJDX WKY WLIT WMC WQAI
 WQAI WOC WOW WRV WVA WSAI
 WSB WSM WSMB WTAM WWJ
 WWNC

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Guy Lombardo-Burns and Allen
 CKOK KFJF KMBC KMOX KTRH
 KTSB WABC WADC WCAO WCAU
 WCOO WDRC WEAN WFBL WFBM
 WGN WHK WJAS WKBW WKRC
 WMAL WHK WJAS WKBW WKRC
 WMAL WNAC WOKO WOWO WRR
 WSPD

R — Goodyear Program
 KFYR KPRC KSD KSTP KTBS
 KVOO KYW WBEW WCAE WCSI
 WDAY WFAF WFCB WEEI WFAA
 WFRB WFLA WGY WHO WIBA
 WIOD WIS WJAR WJAX WJDX
 WKY WKIT WMC WQAI WOC
 WOW WPTF WRC WRVA WSAI
 WSB WSM WSMB WTAG WTAM
 WTIC WTMJ WWJ WWNC

B — Sherlock Holmes
 CFCF CKGW KDKA KWCR KWK
 WBAL WBZ WBAZ WGAR WHAM
 WJR WJZ WLW WREN

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Eno Crime Club, See Tuesday
R — The Pridgets, Comedy Sketch
 KDYL KFI KFYR KGO KGW KHQ
 KOA KOMO KPRC KSD KSTP
 KTAR KVOO WBEW WCAE WCSI
 WDAF WDAY WFAF WFCB WEEI
 WENR WFAA WFBR WFLA WGY
 WHO WIBA WIOD WIS WJAR WJAX
 WJDX WKY WLIT WMC WQAI
 WOC WOW WRC WSAI WSB WSM
 WSMB WTAG WTAM WTIC WTMJ
 WWJ WWNC

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Music That Satisfies, See Monday
R — Corn Cob Pipe Club
 KFI KGHK KGR KGO KGW KHQ
 KOA KOIL KSD KSL WBEW WCAE
 WCSI WDAF WFAF WEEI WENR
 WFRB WGY WHO WJAR WLIT

WOC WOW WRC WRVA WSAI
 WTAG WTAM WTIC WWJ
B — Phillips Lord, See Monday

E-10:15 p.m., C-9:15, M-8:15, P-7:15
C — Easy Aces, See Monday
B — Jack Fulton, Tenor
 KFYR WBAL WECB WFLA WIBA
 WIOD WIS WJAX WJZ WWNC

E-10:30 p.m., C-9:30, M-8:30, P-7:30
B — Dramatic Sketch, See Monday

E-10:45 p.m., C-9:45, M-8:45, P-7:45
C — Myrt and Marge, See Monday
C — Stoopnagle and Budd, See Monday
B — Mildred Bailey, See Monday

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Columbia Symp. Orch., See Mon.
R — Nellie Revell
 CFCF CKGW KSD WFAF WGY
 WLIT WRC WWJ
B — Amos 'n' Andy, See Monday
C — Edwin C. Hill, See Monday

E-11:15 p.m., C-10:15, M-9:15, P-8:15
C — Angelo Patri
 KDB KERN KFKB KFPY KPRC
 KGB KLI KMJ KOIN KOL KSL
 KVI KWG
R — Jones and Hare, 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 — Roger Wolfe Kahn, See Monday

E-12:15 a.m., C-11:15, M-10:15, P-9:15
B — Sherlock Holmes
 KDYL KFI KFSD KGHK KGR KGO
 KGW KHQ KOA KOMO KTAR

THURSDAY

E-8:30 a.m., C-7:30, M-6:30, P-5:30
R — Cheerio, See Monday

E-9:00 a.m., C-8:00, M-7:00, P-5:00
C — Little Jack Little, See Monday

E-10:15 p.m., C-9:15, M-8:15, P-7:15
B — Clara, Lu 'n' Em, See Monday

E-12:30 p.m., C-11:30, M-10:30, P-9:30
C — Columbia Revue, See Monday
B — National Farm and Home See Mon.

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

E-6:30 p.m., C-5:30 M-4:30, P-3:30
B — Old Songs of Church
 KEX KFSD KGA KJR KOA KOIL
 KPO KTBS KWCR WBAZ WGAR
 WJZ WKY WLW WMAQ WREN

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

E-7:00 p.m., C-6:00, M-5:00, P-4:00
C — Myrt and Marge See Monday
B — Amos 'n' Andy, See Monday
R — The Rollickers, Male Quartet
 KGO KOA WAPI WBEW WFAF
 WFI WJAR WMAQ WTAM

E-7:15 p.m., C-6:15, M-5:15, P-4:15
R — Ray Knight, See Monday
B — Ward Wilson, See Wednesday

E-7:30 p.m., C-6:30, M-5:30, P-4:30
R — Ray Perkins, See Tuesday
B — Stebbins Boys, See Monday

E-7:45 p.m., C-6:45, M-5:45, P-4:45
C — George Price, See Tuesday
R — The Goldbergs, See Monday
B — Johnny Hart, See Monday

THURSDAY—Continued

E-8:00 p.m., C-7:00, M-6:00, P-5:00
R — Fleischmann, Rudy Vallee
 CFCF CKGW KFI KFYR KGO KGW KHQ KOA KOMO KPRC KSD KSL KSTP KTAH KVOO WAPI WBAF WBEN WCAE WCKY WCSH WDAF WDAY WEAF WEBC WEEL WFRB WFI WFLA WGY WHO WIOD WJAR WJAX WJDX WKY WMAQ WMC WOAI WOC WOW WPTF WRC WRYA WSAI WSB WSM WSMB WTAG WTAM WTMJ WWJ
C — Abe Lyman, See Tuesday
B — Regimentalists, Male Chorus
 KDKA KOIL KWCR KWK WBAL WENR WGR WHAM WJZ WREN

E-8:15 p.m., C-7:15, M-6:15, P-5:15
B — Sigmund Spaeth, Song Sleuth
 KDKA KOIL KWK WBZ WBZA WGR WHAM WJR WJZ WLS WLW WREN
C — Canada Dry, Jack Benny
 CFB CKAK CKOK KMBC KMOX WABC WACO WADC WCAO WCAU WCCO WDRC WEAN WFBL WFBM WGN WHK WJAS WKRC WMAL WNAC WOKO WOWO WPG WSPD

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

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Music That Satisfies, See Tuesday
R — Maxwell House Show Boat
 KDYL KFI KFSO KGO KGW KHQ KOA KOMO KPRC KSD KTAH KTBS WAPI WBEN WCAE WOSH WDAF WEAF WEEL WFRB WFI WFLA WGY WHO WIOD WIS WJAR WJAX WKY WMAQ WMC WOAI WOC WOW WRC WRYA WSAI WSB WSM WSMB WTAG WTAM WTMJ WWJ WWNC

B — Death Valley Days
 KDKA KOIL KWCR KWK WBAL WBZ WBZA WENR WGR WHAM WJR WJZ WLS WLW WREN

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

E-9:30 p.m., C-8:30, M-7:30, P-6:30
C — Omar Khayyam
 CKOK KDB KERN KFBK KFPY KFRK KGB KHJ KLZ KBMC KMJ KMOX KOIN KOL KSL KYI KWG WABC WADC WCAH WCAO WCAU WCCO WDRC WEAN WFBL WFBM WGN WHAD WHAS WHK WJAS WJWJ WKBW WKRC WNAC WOKO WOWO WSPD

B — Virtuosos, Erno Rapee
 KDKA KDYL KFI KFSO KGO KGW KHQ KOA KOIL KOMO KPRC KSTP KTAH KWCR KWK KYW WAPI WBAL WBAF WBZ WBZA WEBC WFLA WGR WHAM WIOD WJAX WJDX WJR WJZ WKY WLW WMC WOAI WREN WRYA WSB WSM WSMB WTMJ WWNC

E-10:00 p.m., C-9:00, M-8:00, P-7:00
C — Andre Kostelanetz Presents
 CFB CKOK KLRA KLZ KMBC KMOX KSCJ KTRH KTAH KVOR WAAB WABC WADC WBT WCAO WCCO WDAE WDBJ WDBO WDOD WDRC WDSU WEAN WFBL WFBM WFEA WGST WHAS WHCC WHF

WIBW WICC WJAS WKBH WKBW WLAC WLBZ WMAL WMBD WMT WNAX WODX WORO WORC WPG WQAM WREC WSBT WTAR WTOG
R — Lucky Strike, See Tuesday
B — Phillips Lord, See Monday

E-10:30 p.m., C-9:30, M-8:30, P-7:30
B-Three Keys
 CKGW KDKA KWCR WBAL WGR WHAM WJZ WREN
C — Charles Carlile, See Monday

E-10:45 p.m., C-9:45, M-8:45, P-7:45
C — Myrt and Marge, See Monday
B — Jane Froman, See Tuesday

E-11:00 p.m., C-10:00, M-9:00, P-8:00
C — Columbia Symph. Orch., See Mon
B — Amos 'n' Andy, See Monday
R — Don Bestor and Orchestra
 CFCF KSD WBEN WCAE WEAF WEEL WFRB WFI WFLA WGY WHO WIOD WIS WJAR WOC WOW WRC WTAG WTAM WWJ WWNC

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

E-12:00 m., C-11:00, M-10:00, P-9:00
R — Cab Calloway and Orchestra
 KSD WCAE WDAF WEAF WFRB WGY WHO WJAR WMAQ WOC WOW WWJ
C — Eddie Duchin, See Monday

E-12:30 a.m., C-11:30, M-10:30, P-9:30
B — Pacific Serenaders
 KFYR KOA KOIL KPRC KTBS KTHS KVOO KWCR WLW WENR WFLA WHAM WIBA WJR WJZ WKY WLW WMC WREN WSM WSMB WWNC

FRIDAY

E-8:30 a.m., C-7:30, M-6:30, P-5:30
R — Cheerio, See Monday

E-9:00 a.m., C-8:00, M-7:00, P-6:00
C — Little Jack Little, See Monday

E-10:15 a.m., C-9:15, M-8:15, P-7:15
B — Clara, Lu 'n' Em, See Monday

E-12:30 p.m., C-11:30, M-10:30, P-9:30
C — Columbia Revue, See Monday
B — National Farm and Home, See Mon.

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

E-6:00 p.m., C-5:00, M-4:00, P-3:00
C — Irene Beasley, See Monday
R — Waldorf-Astoria Orch., See Monday

E-6:15 p.m., C-5:15, M-4:15, P-3:15
B — Don DeForest and Orchestra
 KFYR KOIL KSTP KWCR WBAL WGR WHAM WIBA WJZ WLW WMAQ WREN

E-6:30 p.m., C-5:30, M-4:30, P-3:30
R — William Scott and Orchestra
 KFSO KGO KOA KSD KTBS WCKY WEAF WFI WJAR WJDX WMAQ WMC WRC WSB WTAG WTAM WWNC

E-6:45 p.m., C-5:45, M-4:45, P-3:45
R — Lanny Ross, Tenor
 KFSO KGO KOA KPRC KSD KTBS WBEN WCKY WEAF WJAR WMAQ

WMC WOW WSB WSMB WTAG WTAM WWNC

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

E-7:15 p.m., C-6:15, M-5:15, P-4:15
B — Ward Wilson, See Wednesday

E-7:30 p.m., C-6:30, M-5:30, P-4:30
C — Three X Sisters, See Monday
R — Jones and Hare, See Monday
B — Stebbins Boys, See Monday

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

E-8:00 p.m., C-7:00, M-6:00, P-5:00
C — Edwin C. Hill, See Monday
R — Cities Service Orchestra

CKGW KOA KPRC KSD KSL KSTP KTBS KTHS KVOO KYW WBEN WCAE WCSH WDAF WEAF WEBC WEEL WFEA WFRB WGY WHO WJAR WKY WLIT WOAI WOC WOW WRC WSAI WTAG WTAM WTIC WTMJ WWJ
B — Nestle's Program
 KDKA KOIL KWK WBAL WBZ WBZA WCKY WGR 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 KFPY KHJ KLRA KLZ KMBC KMOX KOH KSCJ KTRH KVI WABC WADC WBCM WBIG WBRIC WBT WCAH WCAO WCAU WDAE WDBJ WDBO WDRC WEAN WFBM WFEA WGR WHCC WHK WHP WIBW WISN WJAS WLAC WLZ WMAL WMT WNAC WNAX WNOX WOKO WORC WOWO WPG WQAM WREC WSBT WSPA WSJS WSPD WTAG WTAR WTOG
B — Adventures in Health, See Tuesday

E-8:45 p.m., C-7:45, M-6:45, P-5:45
B — Song Fellows, Male Quartet
 KDKA KOIL KWCR KWK WBAL WBZ WBZA WCKY WFLA WGR WHAM WIOD WJZ WLS WMC WREN WSB WWNC

E-9:00 p.m., C-8:00, M-7:00, P-6:00
C — Football Show, Christy Walsh
 CKOK KDB KERN KFBK KFPY KFRK KGB KIJI KLZ KMBC KMJ KMOX KOIN KOL KRLD KSCJ KYI KWG WABC KSL WADC WCAH WCAO WCAU WCCO WDRC WEAN WFBL WFBM WGN WHAS WHK WISN WJAS WKBW WKRC WMAL WNAC WOKO WORC WOWO WSPD

R — Cluquet Club
 ESD WBEN WCAE WCSH WDAF WEAF WEEL WFRB WGY WHO WJAR WLIT WMAQ WOC WOW WRC WSAI WTAG WTAM WTIC WWJ

FRIDAY—Continued

B — First Nighter

KDKA KDYL KPI KFSD KGO KGW
KHQ KOA KOIL KOMO KPRC
KSTP KTRAR KTBS KWK WBAL
WBZ WBW WCKY WECB WGAR
WHAM WJZ WKY WOAI WREN
WTMJ

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

C — To the Ladies, Morton Downey
CROK KMBC KMOX KRLL WAHC
WADC WCAO WCAU WCCO WDRG
WEAN WFBL WFBM WGN WGST
WHAS WHK WJAS WKWB WKRC
WMAL WNAC WOKO WSPD

R — Pond's Program

KRD WBEN WCAE WCSH WDAF
WEAF WENR WFBR WGY WHO
WJAR WLIT WOC WOW WRC
WSAI WTAG WTAM WWJ

B — Armour Program, Eddie & Ralph

KDKA KPI KGO KGW KHQ KOA
KOIL KOMO KPRC KSL KSTP
KWK WAPI WBAL WBZ WBZA
WFBM WFAA WGAR WHAM WIOD
WJAX WJR WJZ WKY WMAQ
WMC WOAI WREN WRVA WSB
WSM WSMB WTMJ WWNC

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

C — Music That Satisfies, See Monday
R — Paul Whiteman and Orchestra
KPI KFYP KGO KGW KHQ KOA
KOMO KSD KSL KSTP WBN
WCAE WCSH WDAF WDAY WFAF
WIBC WEEL WFBR WGY WHO
WJAR WLIT WOC WOW WRC
WRVA WSAI WTAG WTAM WTIC
WTMJ WWJ

B — Phillips Lord, See Monday

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

C — Easy Aces, See Monday
B — Concert Orchestra
CKGW KPRC WBAL WCKY WFLA
WGAR WHAM WIOD WIS WJAX
WJZ WKY WMAQ WMC WOAI
WREN WRVA WSB WSM WWNC

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

R — Elgin—Floyd Gibbons
CFCE CKGW KDYL KPI KFSD
KFYP KGHLL KGR KGO KGW
KHQ KOA KOMO KPRC KSD
KSTP KTRAR KTBS WAPI WBN
WCAE WCSH WDAF WDAY WFAF
WIBC WEEL WFBM WFAA WFBR
WFLA WGY WHO WIBA WIOD WIS
WJAR WJAX WJDX WKY WLIT
WMC WOAI WOC WOW WRC
WRVA WSAI WSB WSM WSMB
WTAG WTAM WTIC WTMJ WWJ
WWNC

B — Three Keys, See Thursday

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

C — Myrt and Marge, See Monday
C — Stoopnagle & Budd, See Monday
B — Mildred Bailey, See Monday

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

C — Columbia Symp. Orch., See Monday
B — Amos 'n' Andy, See Monday
C — Edwin C. Hill, See Monday
R — Anson Weeks and Orchestra
CFCE KSD WEAF WEEL WFBR
WFLA WGY WIOD WIS WJAR
WLIT WOC WRC WTAG WTAM
WWJ WWNC

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

R — Jones and Hare, See Monday

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

C — Guy Lombardo, See Monday

SATURDAY

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

R — Cheerio, See Monday

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

C — Little Jack Little, See Monday

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

B — Little Orphan Annie, See Monday

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

R — Waldorf-Astoria Orch., See Monday
B — Little German Band
KDKA KEX KFSD KFYP KGA
KJR KOA KPO KTRAR KTBS KWCR
WBAL WFLA WGAR WIBA WIOD
WJZ WKY WREN WSB WWNC

C — The Funnyboners

CFRB CROK KFPI KLZ KSCJ KTRH
KVOR WAAB WABC WACO WADC
WBCM WBT WCAH WCAO WCAU
WCCO WDAE WDBJ WDOO WDRG
WDRG WDSU WFEA WGST WHAS
WHFC WHK WHI WHP WIBW WICC
WISN WJAS WKBH WKWB WKRC
WLAC WLBB WLBB WMAL WMT
WNAX WOKO WORC WQAM WRLE
WSBT WSPA WSJS WTAQ WTAR
WTOC WWVA

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

R — Harlem Fantasy
KEX KFSD KGA KJR KOA KPO
KTBS WCAE WFAF WIBA WKY
WMC WRC WSM WWNC

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

C — Jack Miller and Orchestra
CFRB CROK KFPI KLZ KMBC
KMOX KSCJ KTRH KVOR WAAB
WABC WACO WADC WBCM WBT
WCAH WCAO WCCO WDAE WDBJ
WDOO WDRG WDRG WDSU WFBM
WFLA WFBM WFEA WGST WHAS
WHFC WHP WISN WJAS WKWB
WKRC WLAC WLBB WLBB WMT
WNAX WOKO WORC WQAM WREC
WSBT WSPA WSJS WTAQ WTAR
WTOC WWVA

R — Donald Novis, See Monday

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

C — Frederic William Wile
KFKP KPYP KGB KHJ KMBC
KMOX KQH KTRH KVI KVOR
WABC WACO WADC WBCM WBG
WBRC WBT WCAH WCAO WCAU
WDAE WDRG WFBM WFEA WGL
WGN WGR WJAS WLAC WLBB
WMAL WMT WNAX WNOX WOKO
WQAM WSPA WSPD WTOC WWVA
B — Amos 'n' Andy, See Monday
R — George Olsen and Orchestra
KEX KFSD KGA KJR KOA KPO
KTBS WEAF WFI WIBA WJAR
WKY WMAQ WMC WOW WRC
WSM WTAG

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

C — William Vincent Hall
CFRB CROK KFKB KFH KFYP
KFRG KGB KHJ KLZ KMBC KMOX
KOH KOL KSCJ KTRH KTRH KVI

KVOR WABC WACO WBBM WBCM
WBIG WBRC WBT WCAO WCAU
WCCO WDAE WDBJ WDOO WDD
WDSU WEAN WGR WGST WHAS
WHFC WHP WIBW WISN WJAS
WKBH WNAC WNAX WNOX WOKO
WORC WOWO WQAM WREC WSPA
WSPD WTAQ WTAR WTOC WWVA

B — Jack Fulton, Jr., Tenor

KDKA KOIL KWCR KWK WBAL
WENR WFLA WHAM WIOD WIS
WJR WJZ WREN WRVA WWNC

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

C — Moyer The Buyer
CFRB CROK KFH KLRA KMBC
KMOX KRLL KSCJ KTRH KVOR
WABC WACO WADC WBCM WBT
WCAH WCAO WCCO WDAE WDBJ
WDOO WDRG WDRG WDSU WEAN
WFAN WFBM WFEA WGR WGST
WHAS WHFC WHK WHP WIBW
WICC WIP WISN WJAS WKBH
WKRC WLAC WLBB WLBB WMT
WNAC WNAX WOKO WORC WQAM
WREC WSBT WSPA WSJS WTAQ
WTAR WTOC WWVA

R — Three Jesters

WBEN WCSH WEAF WFBR WFI
WGY WJAR WOW WRC WTAG

B — Cuckoo Program, Ray Knight

CKGW KEX KGA KJR KOA KTBS
KWCR WBAL WFLA WGAR WHAM
WIBA WJDX WJR WJZ WREN
WRVA WSB WSM WWNC

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

C — Keenan and Phillips
CFRB CROK KFH KLRA KMBC
KMOX KRLL KSCJ KTRH KVOR
WABC WACO WADC WBCM WCAH
WCAO WCAU WCCO WDAE WDBJ
WDOO WDRG WDRG WDSU WFBM
WFEA WGR WGST WHAS WHK
WHP WIBW WICC WISN WJAS
WKBH WKRC WLAC WLBB WLBB
WMT WNAC WNAX WOKO WORC
WQAM WREC WSBT WSPA WSJS
WTAQ WTAR WTOC WWVA

R — The Goldbergs, See Tuesday

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

C — Abe Lyman, See Tuesday
R — Archer Gibson, Organist
CKGW KFSD KGO KGW KHQ KOA
KPRC KSD KTBS WBEN WCSH
WEAF WIBC WEEL WFBM WFI
WFLA WHO WIBA WIOD WIS
WJAR WKY WMAQ WOC WRC
WSAI WSMB WTAG WTAM WWJ
WWNC

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

C — Edwin C. Hill See Monday
B — "Whoopse"
CKGW KDKA KOIL KWCR KWK
WBAL WCKY WGAR WHAM WJR
WJZ WLS WREN

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

B — Trio Romantique
KDKA KWK WBZ WBAZ WGAR
WHAM WJR WJZ WMAQ WREN
C — Isham Jones and Orchestra
CGRB CROK KDYL KFKB KFH
KRFJ KPYP KFRG KGB KHJ KLRA
KLZ KMBC KMOX KOH KOL
KSCJ KTRH KVI KVOR WABC
WBCM WBG WDRG WBT WCAH
WCAO WCAU WCCO WDAE WDBJ
WDOO WDRG WDSU WEAN WFBM
WFBM WFEA WGL WGST WHFC

SATURDAY—Continued

WHK WHP WIBW WISN WJAS
WKBW WLWB WMAL WNCN WNAK
WNOX WOKO WORC WPG WQAM
WREC WSPA WSPD WTAQ WTAR
WTOC WYVA

R — K-7 Drama

KFI KHVR KGO KGW KOA KOMO
KSD KSL KSTP KTBS KVOO KYW
WBEN WCAE WGSB WDAF WDAY
WEAF WEBC WEEI WFBR WFI
WFLA WGY WHO WIBA WIOD
WJAR WJAX WKY WOC WOW
WRC WSAI WSM WTAG WTAM
WWJ WWNC

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

B — Muriel Pallock-Vee Lanhurst
WBAL WBZ WBZA WOKY WGAR
WHAM WJR WJZ WMAQ WREN

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

C — Music That Satisfies, See Tuesday

R — Erno Rapee and Orchestra

CFCF CKGW KFI KFYP KGO KGW
KHQ KOA KPRC KSD KSTP KTAR
KTBS WBEN WCAE WCKY WGSB
WDAF WEAF WEEI WFBR WFI
WFLA WGY WHO WIBA WIOD
WISN WJAR WKY WMAQ WMC WOI
WOC WRC WSAI WSB WSMB
WTAG WTAM WWJ WWNC

B — Gus Van, Pickens Sisters

KDKA KOIL KPRC KWCR KWK
WAPI WBAL WBAP WBZ WBZA
WGAR WHAM WJDX WJR WJZ
WLS WMC WREN WSB WSM WSMB

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

C — Do Re Mi! Girls

CFRB CKOK KFH KLRA KLZ
KMBC KSCJ KTRH KTSa KVOR
WAAB WABC WADC WBCM WBT
WCAH WCAU WCCO WDAE WDBJ
WDBO WDRC WDSU WEAN WFBL
WFBM WFEA WGST WHAS WHP
WIBW WISN WJAS WKBH WKBW
WLAC WLWB WLWB WMAL WMBD
WMT WNAK WOKO WORC WOWO
WPG WQAM WREC WSPA WTAQ
WTOC

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

B — S.R.O., Comedy Sketch

CFCF CKGW KDKA KWCR WBAL
WBZ WBZA WGAR WHAM WJR
WJZ WLW WMAQ WREN

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

R — Lucky Strike See Tuesday

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

C — Public Affairs Institute

KDYL KFBC KFH KFJF KPFP
KPRC KGB KIJL KLRA KLZ KMBC
KMOX KOH KOI KSCJ KTRH
KTSa KVI KVOR WAAB WABC
WBBM WBCM WBIG WBRC WBT
WCAO WCCO WDAE WDBJ WDBO
WDOD WDSU WEAN WFBM WFEA
WGST WHAS WHEC WHP WIBW
WJAS WKBH WKBW WLWB WMAL
WNAK WNOX WOKO WORC WOWO
WPG WQAM WREC WSPA WSPD
WTOC

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

B — Three Keys, See Thursday

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

C — Vaughn DeLeath

CFRB CKOK KDYL KFAB KFBC
KFJF KPFP KPRC KGB KIJL
KLZ KMBC KOH KOI KSCJ KTRH
KVI KVOR WABC WACO WBCM
WBIG WBRC WCAO WCAU WCCO
WDBJ WDBO WDOD WDSU WEAN
WFBL WFEA WGR WGST WHP
WJAS WKBH WMAL WNAK WNAK
WNOX WOKO WORC WOWO WQAM
WSPA WSPD WTAQ WTAR WTOC
WYVA

B — Twenty Fingers of Harmony

CFCF CKGW KDKA WCKY WGAR
WHAM WJZ WREN

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

B — Amos 'n' Andy, See Monday

C — Guy Lombardo and Orchestra

CKOK KDYL KFAB KFBC KFJF
KFJF KPRC KGB KIJL KLRA KLZ
KMBC KMOX KOH KOI KRFD
KSCJ KTRH KTSa KVI KVOR
WABC WBCM WBRB WBT WCAH
WCAO WCAU WCCO WDAE WDBJ
WDBO WDOD WDSU WEAN WFBL
WFBM WGL WGST WHAS WHEC
WHK WHP WIBW WISN WKBW
WLWB WMAL WMBD WNAK WNAK
WNOX WODX WOKO WQAM WREC
WSPD WTAR WTOC WYVA

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

B — National Opera, See Tuesday

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

C — Harold Stern and Orchestra

CFRB CKOK KDYL KFAB KFBC
KFI KFJF KPFP KPRC KGB KIJL
KLRA KLZ KMBC KMOX KOH
KRFD KSCJ KTRH KTSa KVI
KVOR WAAB WABC WBCM WBT
WCAO WCCO WDAE WDBJ WDBO
WDOD WDRC WDSU WEAN WFAN
WFBM WGL WGST WHAS WHEC
WHP WIBW WIP WISN WKBW
WLWB WMAL WMBD WNAK
WNOX WODX WOKO WORC WOWO
WPG WQAM WREC WSPA WTAQ
WTOC WYVA

R — Paul Whiteman and Orchestra

KSD WCAE WCKY WEAF WEEI
WFI WGY WJAR WMAQ WRC
WTAM WJZ

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

C — California Melodies

KFBC KPFP KLZ KMBC KOH
KTRH KVOR WABC WADC WBCM
WBRC WBT WCAH WCAU WFBL
WFBM WGL WHAS WISN WKBW
WLAC WMAL WMBD WMT WNAK
WNOX WOKO WPG WSPD WYVA

R — Roger Wolfe Kahn, See Monday

B — Emil Coleman and Orchestra

KDKA KOIL KWCR KWK WBAL
WBZ WBZA WGAR WHAM WJZ
WREN

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

R — Ben Bernie and Orchestra

KOA KPRC KSD KTBS KVOO
WBEN WCAE WCKY WDAF WEAF
WECB WFBR WFLA WHO WIFB
WIOD WKY WOC WOW WRC WSB
WSMB WTAM WWJ WWNC

SUNDAY

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

R — Major Bowes Family

KEX KFYP KGA KJR KOA KPO

KSL KSTP KTBS WAPI WGSB WDAF
WEAF WFLA WGY WIOD WLIT
WMAQ WMC WPTF WRC WSM
WTAM WWJ WWNC

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

C — Salt Lake Tabernacle Choir

CFRB CKOK KFAB KFBC KPFP
KGB KLZ KMBC KOH KSCJ KVOR
WAAB WABC WADC WABC WCAO
WCCO WDBJ WDOD WFBL WFEA
WGR WHAS WHEC WHK WISN
WJAS WKBN WLWB WMAL WMBD
WMT WNAK WNOX WOKO WORC
WPG WQAM WREC WSBT WSJS
WTAQ WTAR WYVA

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

R — Legion of the Lost

CKGW KEX KGA KJR KOA KPO
KPRC KTBS WAPI WBEN WCKY
WDAF WEAF WFBR WFI WFLA
WGY WHO WIOD WJAR WKY
WMC WOC WRC WSAI WSB WSM
WSMB WYSR WTAG WTAM WWNC

C — Reis and Dunn

CFRB KDYL KFAB KFBC KFJF
KPRC KIJL KLRA KMBC KMOX
KOL KRFD KSCJ KTRH KVOR
WAAB WABC WBBM WBCM WCAH
WCAU WCCO WDAE WDBJ WDBO
WDOD WDSU WFBL WFEA WGR
WGST WHAS WHP WIBW WJAS
WKBH WKBN WMAL WMBD
WNAK WNOX WODX WOKO WORC
WPG WQAM WREC WSPA WTAQ
WTAR WWVA

E-12:45 p.m., C-11:45, M-10:45, P-9:45

C — Emery Deutsch and Orchestra

CFRB CKOK KDYL KFAB KFBC
KFJF KPRC KIJL KLRA KMBC
KOL KRFD KSCJ KTRH KVOR
WAAB WABC WBBM WBCM WBRB
WCAH WCAU WCCO WDAE WDBJ
WDBO WDOD WDSU WFBL WGR
WGST WHAS WHEC WISN WISN
WJAS WKBH WKBN WLWB WMAL
WMBD WODX WOKO WORC WOWO
WPG WQAM WREC WSPA WTAQ
WTAR WWVA

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

R — Symphony Concert, Erno Rapee

KDYL KEX KFYP KGA KJR KOA
KOMO KPO KTAR KTBS WBEN
WCAE WCKY WDAF WDAY WEAF
WEEI WFI WFLA WGY WHO WIOD
WJAR WMAQ WOC WTAM WWJ
WWNC

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

C — Columbia Church of the Air

CFRB CKOK KFAB KFBC KPFP
KLZ KMBC KOH KSCJ KTRH KVI
KVOR WAAB WABC WADC WBCM
WBIG WBRC WBT WCAH WCAO
WCAU WCCO WDBJ WDOD WDRC
WFBL WGR WHEC WHK WISN
WJAS WLWB WLWB WMAL WMT
WOKO WOWO WPG WQAM WSBT
WSJS WTAQ WTAR WWVA

B — Clyde Doerr's Saxophone Octet

KDKA KFI KFSD KGO KHQ KOA
KOMO KWCR WBAL WDAY WGAR
WHAM WJZ WLW

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

C — Cathedral Hour

CFRB CKOK KFH KLRA KLZ
KMBC KSCJ KTRH KTSa KVOR

SUNDAY—Continued

WABC WACO WADC WBCM WCAH WCAO WCAU WCCO WDAE WDBJ WDBO WDDO WDRD WDSU WFBF WFEA WGR WGST WHAS WHEC WHK WHP WIBW WISN WRBH WLAC WLWB WMAL WMT WOKO WORC WQAM WRFC WSBT WSJS WTAQ WTAR WTOC

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

R — Moonshine and Honeysuckle
KSD WCAE WCKY WCSH WDAF WFAF WEEL WPBR WGY WHO WJAR WLIT WMAQ WOC WOW WRC WTAG WTAM WWJ

B — Yeast Foamers

KDKA KFI KFSD KFYR KGHL KGR KGO KGW KHQ KOA KOMO KPRC KTD KTR KTHS KVVO KWCR KWK KYW WAPI WBAL WBBZ WBSA WDAY WEBC WFAA WFLA WGAR WHAM WIBA WIOD WIS WJAX WJDX WJR WJZ WLW WPTF WREN WRVA WSB WSM WSBM WTMJ WWNC

E-2:45 p.m., C-1:45, M-12:45, P-11:45

C — Hoosier Editor, Frederick Landis
CKOK KDB KFAB KFBC KFPY KFRK KGB KIU KLZ KMBC KMOX KOIN KOL KOMA KSL KVI KABC WBBM WBAH WCAO WCAU WCCO WGR WHAS WHK WWC WYR WRRC WMAL WNAO WNOA WRR

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

R — Wayne King and Orchestra
KDYL KFI KFYR KGO KGW KHQ KOA KOMO KPRC KSD KSTP KTHS KTHS KVVO KYW WBBN WCAE WCSH WDAF WDAY WFAF WEBC WEEL WFAA WFBZ WGY WHO WIBA WJAR WKY WLIT WOAI WOC WOW WRC WSAI WTAG WTAM WTMJ WWJ

C — N. Y. Philharmonic Orchestra

CFRB CKOK KFH KLRA KLZ KMBC KRLL KSCJ KTRH KVR WABC WACO WADC WBCM WCAH WCAO WCAU WCCO WDAE WDBJ WDBO WDDO WDRD WDSU WFAA WFBF WFBM WFEA WGST WHAS WHEC WHK WHP WIBW WIP WISN WRBH WRBW WRRC WLAC WLWB WLZ WMAL WMBD WMT WOKO WORC WQAM WRFC WSBT WSFA WSJS WTAQ WTAR WTOC WWA

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

R — National Sunday Forum
KFYR KPHL KGR KGO KGW KHQ KOA KPRC KSL KSTP KTR KTHS KVVO KYW WBBN WCAE WCSH WDAF WFAF WEBC WEEL WFAA WFBZ WGY WIBA WIOD WIS WJAR WJAX WJDX WKY WOAI WOW WPTF WRC WRVA WSAI WSB WSM WSBM WTAG WTAM WWJ WVNC

B — 48th Highlanders Military Band

CKGW KDKA KOIL KWCR WBAL WBBZ WBSA WGAR WHAM WJR WJZ WLW WMAQ WREN

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

— Father Coughlin
KMOX KSTP KYW WCAO WCAU WDRD WEAN WFBF WFEA WGAR WGR WHB WICC WJAS WJR WLWB WLW WMT WNAO WNBH WOC WOL WOKO WOR WORC

R — Idont Program

KFI KFSD KFYR KGHL KGR KGO KGW KHQ KOA KOMO KPRC KSD KSL KTR KTHS KTHS KVVO WAPI WBBN WCAE WCSH WDAF WDAY WFAF WEBC WEEL WFAA WFBZ WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJDX WKY WMC WOAI WOW WPTF WRC WRVA WSAI WSB WSM WSBM WTAG WTAM WTMJ WWJ WVNC

B — Temple of Song

KDKA KOIL KWCR WBAL WBBZ WBSA WCKY WFLA WHAM WJZ WMAQ WREN

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

B — Highlights of Bible
KDKA KFSD KFYR KGHL KGR KGO KGW KHQ KOIL KOMO KPRC KSL KSTP KTR KTHS KTHS KVVO KWCR KWK WAPI WBAL WBBZ WBSA WCKY WDAY WEBC WENR WFAA WFLA WGAR WIBA WIOD WIS WJDX WJR WJZ WKY WMC WOAI WPTF WREN WRVA WSB WSM WSBM WWNC

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

R — LeTrio Charmante
CKGW WBBN WCAE WCSH WDAF WFAF WEEL WENR WPBR WPI WGY WIO WJAR WOC WOW WRC WSAI WTAG

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

C — Roses and Drums
CKOK KMBC KMOX KRLL WAAB WABC WADC WBBM WCAO WDSU WFBM WGR WGST WIJK WJAS WKRC WMAL

B — World of Religion

KFSD KFYR KGHL KGR KGO KGW KHQ KOA KPRC KTR KTHS KTHS KVVO KWCR KWK KYW WAPI WBAL WBAF WBBZ WBSA WCKY WDAY WEBC WFLA WGAR WHAM WIBA WIOD WIS WJAX WJDX WJZ WMC WOAI WPTF WREN WRVA WSB WSBM WWNC

R — Pop. Concert, Walter Logan

CKGW KFSD KGO KGW KHQ KOA KSTP KTR KTHS WAPI WBBN WCAE WCSH WDAF WFAF WEBC WEEL WENR WPBR WPI WFLA WGY WHO WIOD WJAR WKY WMC WOC WOW WRC WRVA WSAI WSB WSM WTAG WTAM WWJ WVNC

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

C — Blue Coal Revue
WAAB WABC WCAO WCAU WDRD WEAN WFBF WGR WHEC WHP WOKO

R — Big Ben's Dream Dramas

KDYL KFI KGO KOA KSD KSTP WBBN WCAE WCSH WDAF WFAF WEEL WENR WPBR WPI WGY WJAR WOC WRC WSAI WTAG WTAM WTMJ WWJ

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

R — Kremlin Art Quintet
CKGW KSD WBBN WCSH WDAF WFAF WEEL WPBR WPI WGY WHO WJAR WOC WOW WRC WSAI WTAG WTAM WWJ

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

C — Poet's Gold-David Ross
CFRB CKOK KFH KLZ KRLL

KSCJ KVOR WABC WACO WADC WBCM WCAO WCAU WCCO WDAE WDBJ WDBO WDDO WDRD WDSU WFBF WFBM WFEA WGR WGST WHAS WHEC WHP WIBW WISN WJAS WKHB WLAC WLWB WMAL WMT WNAO WOKO WORC WQAM WRFC WSBT WSFA WSJS WTAQ WTAR WTOC WWA

R — Catholic Hour

KEX KFSD KFYR KGA KGHL KSL KVR KOA KPO KPRC KSTP KVVO WAPI WBAF WBBN WCAE WCSH WDAF WFAF WEBC WEEL WENR WPBR WFLA WGY WHO WIBA WIOD WJAR WJAX WJDX WKY WLIT WMC WOAI WOC WOW WRC WRVA WSAI WSM WSBM WTAG WTAM WWJ WVNC

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

C — Little Jack Little
CFRB CKOK KFH KLZ KRLL KSCJ KSL KVR KOA WACO WADC WCAU WCCO WDAE WDBJ WDBO WDDO WDRD WDSU WFBF WFBM WFEA WGR WGST WHAS WHEC WHP WIBW WISN WJAS WKHB WKRC WLAC WLWB WLWB WMAL WMT WNAO WOKO WORC WPG WQAM WRFC WSBT WSFA WSJS WTAQ WTAR WTOC WWA

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

R — Sweetheart Days
KEX KFSD KGA KJR KOA KPO KSD KSTP KTR KTHS KVVO WBBN WCAE WDAF WFAF WEEL WFBZ WFLA WGY WHO WIBA WIOD WIS WJAR WJAX WJZ WMAQ WMC WOC WOW WPTF WRVA WSAI WSM WTAG WWJ

C — Irene Beasley, Round Towners

CFRB CKOK KDYL KFAB KFBC KFH KFIF KPRC KHJ KLRA KMBC KMOX KOL KRLL KSCJ KVOR WABC WBCM WBIG WBRB WBT WCAH WCAO WCAU WCCO WDAE WDBJ WDBO WDDO WDRD WDSU WEAN WFBF WFBM WFEA WGR WGST WHAS WHEC WIJK WHP WIBW WISN WJAS WKHB WKBN WLWB WMBD WNAO WNOX WODX WOKO WORC WOWO WQAM WRFC WSPA WSPD WTAQ WTAR WTOC WWA

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

R — Donald Novis, Tenor
KFSD KFYR KGO KGW KHQ KOA KSL KSTP KTR KTHS KVVO WBBN WCSH WDAF WFAF WEBC WEEL WFBZ WFLA WGY WHO WIBA WIOD WJAR WJDX WKY WLIT WMAQ WOC WOW WSAI WSM WTAG WTAM WWJ WVNC

C — World's Business, Dr. Klein

KFAB KFH KFPY KGB KLZ KMOX KOH KRLL KSCJ KTRH KVI KVOR WABC WACO WADC WBBM WBCM WBIG WBRB WBT WCAH WCAO WCCO WDBJ WDDO WDRD WEAN WFAA WFBF WFBM WFEA WGL WGR WHAS WHEC WIP WISN WJAS WLAC WLWB WLWB WMAL WMT WNAO WNAO WNOX WOKO WORC WPG WQAM WRFC WSBT WTAQ WTAR WWA

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

H — Ray Knight See Monday
C — New World Symphony
CKOK KFH KLZ KMBC KRLL KSCJ KTRH KVOR WABC WACO WADC WBCM WCAH WCAO WCAU WCCO

SUNDAY—Continued

WDAE WDBJ WDBO WDOD WDRG
WDSU WFBM WFLA WGR WGST
WHAS WHEC WHP WJBW WISN
WJAS WKBH WLWB WLWB WMAL
WMT WNAX WOKO WORC WQAM
WREC WSBT WSJS WTAR WTOC
WVVA

B — Pickens Sisters

KWCR KWK WGAR WHAM WJR
WJZ WJZ WLN

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

B — Great Moments in History

KDKA KDYL KFI KFSD KFJR KGO
KGW KHQ KOA KOMO KPRC
KSTP KTAR KVOO KWK WBAL
WBZ WBZA WDAY WEBC WFAA
WFLA WGAR WHAM WIBA WIOD
WJAX WJDX WJR WJZ WKY WLS
WLW WMC WOAI WREN WRVA
WSB WSM WSBM WTMJ WWNC

R — Orchestral Gems

KSD WBEN WCAE WDAF WDFW
WFBR WGY WJAR WLS WOF
WSAI WTAG WTIC WWJ

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

C — Angelo Patri, See Wednesday

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

B — Radio Luminaries

KDKA KPRC KFSB KVOO KWCR
KWK WBAL WFLA WGAR WIBA
WIOD WIS WJZ WKY WLS WMC
WREN WRVA WSBM WWNC

C — William Vincent Hall

CKOK KDYL KFAB KFH KFJF
KFRC KHJ KMBC KMOX KOL
KSCJ KTRH KVOR WABC WBCM
WBIG WBRC WBT WCAH WCAU
WCCO WDCB WDBJ WDOB WDOD
WDRG WDSU WEAN WFBM WFEA
WGL WGR WGST WHAS WHBC
WHP WJBW WISN WJAS WKBH
WKBN WLWB WMAL WNAC WNAX
WODX WOKO WORC WQAM WREC
WSFA WSPD WTAR WTOC WVVA

R — Chase and Sanborn Hour

CFCF CKGW KFI KFSD KFJR
KGO KGW KHQ KOA KOMO KPRC
KSD KSL KSTP KTAR KTHS KVOO
WAPI WHEN WCAE WCKY WCHS
WDAF WDAY WFAF WBC WFAA
WFBR WFLA WGY WHO WIOD
WIS WJAR WJAX WJDX WKY
WLIT WLS WMC WOAI WOC WPTF
WRC WRVA WSAI WSB WSM
WSMB WTAG WTAM WTIC WTMJ
WWJ WWNC

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

C — Roxy Concerters

CKOK KFAB KFPY KGB KLRA
KLZ KMBC KMOX KOH KRLD
KSCJ KTRH KVI KVOR WABC
WADC WBCM WBIG WBRC WBT
WCAH WCAO WCAU WCCO WDBJ
WDOB WDRG WEAN WFBM WFEA
WFAA WGR WHAS WHEC WHK
WISN WJAS WKBN WLWB WMAL
WMAL WMT WNAC WNAX WNOX
WOKO WORC WOVO WQAM WREC
WSJS WTAR

B — Russian Gaieties

CKGW DDKA KOIL KSTP KWCR
KWK KYW WBAL WBZ WBZA
WCKY WERC WGAR WHAM WIBA
WJR WJZ WLW WREN

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

R — Our Government, David Lawrence
KPRC KSD KTBS KVOO WAPI

WEAF WENR WFAA WFBR WFI
WFLA WGY WHO WIOD WIS WJAR
WJDX WKY WMC WOC WOW
WPTF WRC WRVA WSAI WSB
WSM WSBM WTAG WWNC

B — Enna Jettick Melodies

CFCF CKGW KDKA KFI KFSD
KFJR KGHK KGIR KGO KGW KHQ
KOA KOIL KOMO KSTP KTAR
KWCR KWK KYW WBAL WBZ
WBZA WCKY WDAY WEBC WGAR
WHAM WIBA WJAX WJR WJZ
WREN WRVA WTMJ

C — Bath Club — Fred Allen

CFRB CKOK KLRA KLZ KMBC
KMOX KSCJ KTRH KTSB KVOR
WABC WADC WBCM WCAH WCAO
WCCO WDAE WDBJ WDBO WDOB
WDRG WDSU WGAN WFBM WFBM
WFEA WGR WGST WHAS WHEC
WHK WHP WJBW WIP WISN WJAS
WKBH WKRC WLAC WLWB WLWZ
WMAL WMT WNAX WOKO WORC
WQAM WREC WSBT WSJS WTAR
WTOC

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

R — Album of Familiar Music

KFI KFSD KFJR KGO KGW KHQ
KOA KOMO KPRC KSD KSL KSTP
KTAR KTHS WAPI WBEN WCAE
WCHS WDAY WEAF WEBC WENR
WFAA WFBR WFI WFLA WGY
WHO WIBA WIOD WJAR WJDX
WKY WMC WOAI WOC WOW
WRC WSAI WSB WSM WSBM
WTAG WTAM WTMJ WWJ

B — Red Adams, Sketch

CKGW KDKA KOIL KSTP KWCR
KWK KYW WBAL WBZ WBZA
WCKY WEBC WGAR WHAM WIBA
WJR WJZ WLW WREN

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

C — Pennzoli Parade

CKOK KFJF KLRA KMBC KMOX
KTSB WABC WADC WBRG WBT
WCAO WCAU WCCO WDRG WEAN
WFBM WGN WGR WGST WHEC
WHK WJAS WKRC WLAC WLWZ
WMAL WNAC WOKO WSPD

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

B — Sheaffer Lifetime Revue

CFCF CKGW KDKA KDYL KFI
KFJR KGHK KGIR KGO KGW
KHQ KOA KOIL KOMO KPRC
KSTP KTBS KTHS KWCR KWK
WBAL WBZ WBZA WDAY WEBC
WENR WGAR WHAM WIBA WJDX
WJR WJZ WKY WMC WOAI WREN
WSB WSM WSBM WTMJ

R — Ohman and Arden, Piano Duo

KSD WBEN WCAE WCHS WDAF
WEAF WFBR WFI WGY WHO
WJAR WMAQ WOC WOW WWR
WSAI WTAG WTAM WTIC WWJ

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

C — Canada Dry-Jack Benny

CFRB CKAC CKOK KMBC KMOX
WABC WADC WCAO WCAU WCCO
WDRG WEAN WFBM WFBM WGN
WHAS WHK WJAS WKBN WKRC
WMAL WNAC WOKO WOVO WPG
WSPD

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

R — L'Heure Exquise

CKGW KFJR KPRC KSD KSTP
KTAR KTBS WBEN WCAE WCKY
WDAF WFAF WEBC WEEI WFBR
WFI WFLA WGY WHO WIBA WIOD

WJAR WKY WMC WOC WOW WRC
WRVA WSAI WSM WSBM WTAG
WTAM WTIC WWJ WWNC

B — Old Singing Master

KDKA KFI KGO KGW KHQ KOA
KOIL KOMO KSL KWK WBAL WBZ
WBZA WGAR WHAM WJR WJZ
WLW WMAQ WREN

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

C — The Gauchos

CFRB CKOK KDYL KFAB KFBK
KPH KFJF KFRC KHJ KLRA KMBC
KMOX KOL KRLD KSCJ KTRH
KVOR WAAB WABC WBCM WBRG
WBT WCAH WCCO WDAE WDBJ
WDBO WDOD WDRG WDSU WEAN
WFBM WFBM WGL WGR WHAS
WHK WHP WJBW WIP WISN WJAS
WKBN WLWB WMAL WMBD
WNOX WOKO WPG WQAM WREC
WSFA WSPD WTAR WTOC

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

R — Sunday at Sath Parker's

CFCF KECA KFSD KFJR KGHK
KGIR KGO KGW KHQ KOA KOMO
KPRC KSD KSL KSTP KTAR KTBS
KYW WAPI WHEN WCAE WCHS
WDAF WDAY WEAF WEBC WEEI
WFAA WFBR WFI WFLA WGY
WHO WIBA WIOD WISN WJAX
WJDX WKY WMC WOAI WOC WOW
WPTF WRC WRVA WSAI WSB
WSM WTAM WTMJ WWJ

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

B — Three Keys

KOIL KWCR KWK WBAL WGAR
WHAM WJZ WMAQ WREN

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

R — Hawaiian Serenaders

KFJR KGHK KGO KGW KHQ
KTBS WCAE WEAF WENR WFBR
WFI WFLA WGY WIBA WIOD WIS
WJDX WMAQ WMC WRC WRVA
WSAI WSB WSM WSBM WTAG
WTAM WTIC WWJ WWNC

C — Angelo Patri, See Wednesday

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

R — Melodic Serenade

KFSD KFJR KGO KHQ KSTP
KTAR KTBS WCAE WCKY WEAF
WENR WFBR WFLA WGY WIBA
WIOD WIS WJAR WMC WRC WSAI
WSB WSM WTAM WWJ WWNC

C — Eddie Duchin's Orchestra

CFRB CKOK KLRA KTRH WABC
WADC WBCM WCAO WCAU WCCO
WDAE WDBJ WDBO WDOB WDRG
WDSU WFBM WGR WGST WHK
WHP WISN WLAC WLWZ WMAL
WOKO WPG WQAM WREC WSJS
WTAR WTOC

B — Frankie Masters and Orchestra

KOIL KWCR KWK WBAL WCKY
WENR WHAM WJR WJZ WREN

C — Pennzoli Parade

KDYL KERN KFBK KFPY KFRC
KGB KHJ KLZ KMJ KOIN KOL
KVI KWG

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

B — Wm. Stoess and Orchestra

KGHK KGO KGW KOA KOIL KOMO
KSTP KTBS KWCR WDAY WENR
WFLA WGAR WHAM WIOD WJR
WJZ WKY WLW WMC WREN
WSB WWSN

R — Joe Furst and Orchestra

WCAE WCKY WDAF WEAF WFBR
WHO WLIT WOC WTAM

CLASSIFIED INDEX TO CHAIN PROGRAMS

Time in Eastern Standard

BANDS

48th Highlanders, 3:30 p.m., Sunday, B.
Little German Band, 6:00 p.m., Saturday, B.

CONCERTS

Howard Barlow Symphony, 11:00 p.m., daily, ex. Sat. and Sun., C.
Cities Service, 8:00 p.m., Friday, R.
Gauchos, 10:30 p.m., Sunday, C.
Kremlin Art Quintet, 5:45 p.m., Sunday, R.
L'Heure Exquise, 10:15 p.m., Sunday, R.
Le Trio Charmante, 4:45 p.m., Sunday, R.
Walter Logan, 5:00 p.m., Sunday, R.
Melodic Serenade, 11:30 p.m., Sunday, R.
National Opera, 11:15 p.m., Tues. and Sat., B.
New World Symphony, 7:15 p.m., Sunday, C.
New York Philharmonic, 3 p.m., Sunday, C.
Orchestral Gems, 7:30 p.m., Sunday, R.
Erno Rapee, 1:00 p.m., Sunday; 9:00 p.m., Sat., R.; 9:30 p.m., Thurs., B.
Roxy Concerters, 8:30 p.m., Sunday, C.
Russian Gaieties, 8:30 p.m., Sunday, B.
Waldorf-Astoria, 6:00 p.m., daily, ex. Sunday, R.

DANCE BANDS

Ben Bernie, 11:30 p.m., Mon.; 9:00 p.m. and 12:30 a.m., Tues.; 12:30 a.m., Sat., R.
Don Bestor, 11 p.m., Thursday, R.
Cab Calloway, 12 mid., Thursday, R.
Emil Coleman, 12 mid., Saturday, B.
Don DeForest, 6:15 p.m., Friday, B.
Jack Denny, 8:45 p.m., Wednesday, R.
Lew Diamond, 12:30 a.m., Monday, B.
Clyde Doerr, 1:30 p.m., Sunday, B.
Eddie Duchin, 11:30 p.m., Sun.; 12 mid. Mon. and Thurs., C.
Joe Furst, 12 mid., Sunday, R.
Isham Jones, 11:30 p.m., Tues., Wed. and Thurs., C.
Roger Wolfe Kahn, 12 mid., Mon., Wed. and Sat., R.
Wayne King, 3:00 p.m., Sunday; 8:30 p.m., Tuesday, R.
Guy Lombardo, 11:30 p.m., Mon. and Friday; 9:00 p.m., Wed., C.
Lucky Strike, 10:00 p.m., Tues., Thurs. and Sat., R.
Abe Lyman, 8:00 p.m., Tues., Thurs. and Sat., C.
Frankie Masters, 11:30 p.m., Sunday, B.
Clyde McCoy, 12 mid., Monday, B.
Jack Miller, 6:30 p.m., Tues.; 6:45 p.m., Sat. C.
George Olsen, 12 mid., Tues.; 7 p.m., Sat., R.
Pacific Serenaders, 12:30 a.m., Thursday, B.
Don Redman, 12 mid., Tues. and Wed., C.
B. A. Rolfe, 6:00 p.m., Wednesday, B.
William Scotti, 11 p.m., Mon.; 6:30 p.m., Fri., R.
William Stocess, 12 mid., Sunday, B.
Rudy Vallee, 8:00 p.m., Thursday, R.
Anson Weeks, 11 p.m., Friday, R.
Ted Weems, 10:00 p.m., Sun.; 8:15 p.m., Thurs., C.
Paul Whiteman, 10 p.m., Fri., 11:30 p.m., Sat., R.; 12 mid., Tues., B.

DIALOG

Fred Allen, 9:00 p.m., Sunday, C.
Amos 'n' Andy, 7:00 and 11:00 p.m., daily, ex. Sunday, B.
Pat Barnes, 8:45 p.m., Mon. and Tues., B.
Burns and Allen, 9:00 p.m., Wednesday, C.
Clara, Lu 'n' Em, 10:15 a.m., daily, ex. Sat. and Sun., B.
Easy Aces, 10:15 p.m., Mon., Wed. and Fri., C.
Eddie and Ralph, 9:30 p.m., Friday, B.
Funnyboners, 6:45 p.m., Mon. and Wed.; 6:00 p.m., Sat., C.
Johnny Hart, 7:45 p.m., daily, ex. Sat. and Sun., B.
Ray Knight, 7:30 p.m., Saturday, B.
Meyer the Buyer, 7:30 p.m., Saturday, C.
Jack Pearl, 10:00 p.m., Thursday, R.
Ray Perkins, 7:30 p.m., Tues. and Thurs., R.
The Pridgets, 9:30 p.m., Wednesday, R.
Reis & Dunn, 12:30 p.m., Sun.; 6:15 p.m., Mon., C.
S. R. O. Comedy, 9:30 p.m., Saturday, B.
Stebbins Boys, 7:30 p.m., daily, ex. Sat. and Sun., B.
Stoopnagle & Budd, 10:45 p.m., Mon., Wed., and Fri., C.

Tastycast Jesters, 7:15 p.m., Monday, B.
Wheatenaville, 7:15 p.m., daily, ex. Fri. and Sat., R.
Ward Wilson, 7:15 p.m., Wed., Thurs. and Fri., B.

DRAMA

Red Adams, 9:15 p.m., Sunday, B.
Big Ben, 5:30 p.m., Sunday, R.
Death Valley Days, 9:00 p.m., Thursday, B.
Dramatic Sketch, 10:30 p.m., Mon., Tues. and Wed., B.
Eno Crime Club, 9:30 p.m., Tues. and Wed., C.
Evening in Paris, 9:30 p.m., Monday, C.
First Nighter, 9:00 p.m., Friday, B.
Friendship Town, 9:30 p.m., Tuesday, B.
Fu Manchu, 8:45 p.m., Monday, C.
Goldbers, 7:45 p.m., daily, ex. Sunday, R.
Sherlock Holmes, 9:00 p.m. and 12:15 a.m., Wednesday, B.
K-7, 8:30 p.m., Saturday, R.
Omar Khayyam, 9:30 p.m., Thursday, C.
Legion of Lost, 12:30 p.m., Sunday, R.
Phillips Lord, 10:00 p.m., daily, ex. Sat. and Sun., B.
March of Time, 8:30 p.m., Friday, C.
Moments in History, 7:30 p.m., Sunday, B.
Moonshine and Honeyuckle, 2:30 p.m., Sunday, R.
Myrt and Marge, 7:00 and 10:45 p.m., daily, ex. Sat. and Sun., C.
Rio Tin Tin, 8:30 p.m., Thursday, B.
Roses and Drums, 5:00 p.m., Sunday, C.
The Shadow, 8:00 p.m., Wednesday, R.
Sheer Romance, 6:30 p.m., Wednesday, B.
Soconyland Sketches, 8:00 p.m., Monday, R.

PIANO AND ORGAN

Archer Gilson, 8:00 p.m., Saturday, R.
Harding Sisters, 6:30 p.m., Mon. and Wed., R.; 10:45 p.m., Sat., B.
Keenan and Phillips, 6:45 p.m., Tues.; 7:45 p.m., Sat., C.
Ohman and Arden, 9:45 p.m., Sunday, R.
Muriel Pollock-Vee Lawnhurst, 8:45 p.m., Sat., B.

POPULAR PROGRAMS

A. & P. Gypsies, 9:00 p.m., Monday, R.
Armour Program, 9:30 p.m., Friday, B.
Bath Club, 9:00 p.m., Sunday, C.
Jack Benny, 10:00 p.m., Sun.; 8:15 p.m., Thurs., C.
Blue Coal Revue, 5:30 p.m., Sunday, C.
Major Bowes, 11:30 a.m., Sunday, R.
Carnation Contented, 8:00 p.m., Monday, B.
Chase and Sanborn, 8:00 p.m., Sunday, R.
Cliquot Club, 9:00 p.m., Friday, R.
Columbia Revue, 12:30 p.m., daily, ex. Sat. and Sun., C.
Enna Jettick Melodies, 9:00 p.m., Sunday, B.
Jay C. Flippen, 10:00 p.m., Tuesday, C.
Jack Frost Melody, 8:30 p.m., Wednesday, B.
Goodyear Program, 9:00 p.m., Wednesday, R.
Hawaiian Serenaders, 11:15 p.m., Sunday, R.
Andre Kostelanetz, 10:00 p.m., Thursday, C.
Maxwell House Show Boat, 9:00 p.m., Thursday, R.
Musical Fast Freight, 8:45 p.m., Tues. and Wed., C.
Nestle's Program, 8:00 p.m., Friday, R.
Parade of the States, 9:30 p.m., Monday, R.
Pennzoi Parade, 9:30 and 11:30 p.m., Sunday, C.
Pond's Program, 9:30 p.m., Friday, R.
Sheaffer Revue, 9:45 p.m., Sunday, B.
Sinehar Wiener Minstrels, 9:00 p.m., Monday, B.
Sweetheart Days, 9:30 p.m., Sunday, R.
Whoopee, 8:15 p.m., Saturday, B.
Ed Wynn, 9:30 p.m., Tuesday, R.
Yeast Foamers, 2:30 p.m., Sunday, B.

QUARTETS

Corn Cob Pipe Club, 10:00 p.m., Wednesday, R.
Mills Bros., 9:15 p.m., Mon. and Thurs., C.
Revelers, 8:30 p.m., Monday, R.
Rollickers, 7:00 p.m., Thursday, R.
Song Fellows, 8:45 p.m., Friday, B.
Cathedral Hour, 2:00 p.m., Sunday, C.
Catholic Hour, 6:00 p.m., Sunday, R.

Church of the Air, 1:30 p.m., Sunday, C.
 Rev. Chas. E. Coughlin, 4:00 p.m., Sunday.
 Highlights of Bible, 4:30 p.m., Sunday, B.
 Mid-Week Hymn Sing, 7:00 p.m., Tuesday, R.
 National Sunday Forum, 3:30 p.m., Sunday, R.
 Old Songs of Church, 6:30 p.m., Thursday, B.
 Seth Parker, 10:45 p.m., Sunday, R.
 Salt Lake Tabernacle Choir, 12 noon, Sunday, C.
 World of Religion, 5:00 p.m., Sunday, B.

SINGERS

Mildred Bailey, 10:45 p.m., Mon., Wed. and Fri., B.
 Irene Beasley, 6:30 p.m., Sun.; 6:00 p.m., Mon. and Fri., C.
 Boswell Sisters, 10:00 p.m., Mon.; 9:00 p.m., Thurs., C.
 Eddie Cantor, 8:00 p.m., Sunday, R.
 Charles Carille, 10:30 p.m., Mon., Tues. and Thurs., C.
 Vaughn DeLeath, 6:30 p.m., Mon.; 6 p.m., Wed.; 5:45 p.m., Thurs.; 7:15 p.m., Fri.; 10:45 p.m., Sat., C.
 Do Re Mi, 8:00 p.m., Sunday, C.
 Morton Downey, 9:30 p.m., Friday, C.
 Jessica Dragonette, 8:00 p.m., Friday, R.
 Ruth Etting, 10:00 p.m., Wed.; 9:00 p.m., Sat., C.
 Jane Froman, 4:00 p.m., Sun., R.; 10:45 p.m., Tues. and Thurs., B.
 Jack Fulton, 7:15 p.m., Sat.; 10:15 p.m., Wed., B.
 Sid Gary, 7:15 p.m., Monday, C.
 Tito Guizar, 7:45 p.m., Monday, C.
 Wm. Vincent Hall, 8:00 p.m., Sun.; 6:30 p.m., Wed.; 7:15 p.m., Sat., C.
 Harlem Fantasy, 6:30 p.m., Saturday, R.
 Art Jarrett, 11:00 p.m., Thursday, R.
 Jones and Hare, 7:30 and 11:15 p.m., Mon., Wed. and Fri., R.
 Harriet Lee, 7:00 p.m., Monday, R.
 Little Jack Little, 6:15 p.m., Sun.; 9 a.m., daily, ex. Sun., C.
 Tommy McLaughlin, 9:15 p.m., Tuesday, C.
 Frank Munn, 9:15 p.m., Sunday, R.
 Musical Memories, 9:00 p.m., Tuesday, B.
 Donald Novis, 7:00 p.m., Sun.; 6:45 p.m., Mon., Wed. and Sat., R.

Old Singing Master, 10:15 p.m., Sunday, B.
 Pickins Sisters, 7:15 p.m., Sun.; 9:00 p.m., Sat., B.
 Georgie Price, 7:45 p.m., Tues. and Thurs., C.
 Red and Ramona, 8:30 p.m., Monday, B.
 Regimentalists, 8:00 p.m., Thursday, B.
 Lanny Ross, 9:00 p.m., Thurs.; 6:45 p.m., Fri., R.
 Sanderson-Crumit, 8:00 p.m., Tuesday, R.
 Singin' Sam, 8:15 p.m., Mon., Wed. and Fri., C.
 Kate Smith, 8:30 p.m., Mon., Tues. and Wed., C.
 Street Singer, 9:00 p.m., Tues.; 10 p.m., Fri., C.
 Temple of Song, 4:00 p.m., Sunday, B.
 Three Keys, 11:00 p.m., Sun.; 10:30 p.m., Thurs., Fri. and Sat., B.
 Three X Sisters, 7:30 p.m., Mon., Wed. and Fri., C.
 Trio Romantique, 8:30 p.m., Saturday, B.
 Gus Van, 9:00 p.m., Saturday, B.

TALKS

Adventures in Health, 8:30 p.m., Tues. and Fri., B.
 Cheerio, 8:30 a.m., daily, ex. Sunday, R.
 Football Show, 9:00 p.m., Friday, C.
 Floyd Gibbons, 10:30 p.m., Friday, R.
 William Hard, 6:45 p.m., Tuesday, R.
 Edwin C. Hill, 8:00 and 11:00 p.m., Mon., Wed. and Fri.; 8:15 p.m., Tues. and Sat., C.
 H. V. Kaltenborn, 6:00 p.m., Tues. and Thurs., C.
 Dr. Julius Klein, 7:00 p.m., Sunday, C.
 Frederick Landis, 2:45 p.m., Sunday, C.
 David Lawrence, 9:00 p.m., Sunday, R.
 National Farm and Home, 12:30 p.m., daily, ex. Sat. and Sun., B.
 Angelo Patri, 7:45 and 11:15 p.m., Wed. and Sun., C.
 Poet's Gold, 6:00 p.m., Sunday, C.
 Public Affairs Institute, 10:15 p.m., Saturday, C.
 Nellie Revell, 11:00 p.m., Wednesday, R.
 Sigmund Spaeth, 10:15 p.m., Tues.; 8:15 p.m., Thurs., B.
 Lowell Thomas, 6:45 p.m., daily, ex. Sat. and Sun., B.
 You and Your Government, 8:00 p.m., Tuesday, B.
 Frederic William Wile, 7:00 p.m., Saturday, C.

KEY TO SYMBOLS

As Shown in the Index by Frequencies and Dial Numbers

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

- | | | | |
|---|--|---|--------------------------------------|
| a | Verifies reception for return postage. | g | Sends Ekko stamp for postage. |
| b | Verifies only occasionally. | h | Sends own stations stamp for 10c. |
| c | Does not verify. | l | Sends own station stamp for 5c. |
| d | Verification 25c; reply card 10c. | J | Sends own station stamp for postage. |
| e | Sends Ekko stamp for 10c. | k | Has no stamps. |
| f | Sends Ekko stamp for 5c. | z | Failed to reply. |

Fourth Column Symbols

- | | | | |
|----|--|--------|---|
| A | These stations are synchronized. | Q | Great Lakes network. |
| B | National "Blue" Network. | R | National "Red" network. |
| C | Columbia network. | S | Sunday only. |
| D | Daytime only. | T | Don Lee System. |
| Dn | Daytime with occasional evening hours. | U | Dixie network. |
| E | Trans-Canada network. | V | Maritime Broadcasting network. |
| F | Canadian National Railways network. | W | Curtis-Indiana network. |
| G | All Canadian networks. | X | Has permit to increase power. |
| H | Yankee network. | Y | Has permit to change location. |
| J | Orange and gold network. | Z | Has permit to change frequency. |
| K | Mexican networks. | a-b-c. | Small letters show stations using same transmitter. |
| L | Canadian Pacific Ry. network (Dominion). | 1-2-3. | Figures denote stations sharing time. |
| M | Canadian Radio Corp. network. | .... | No information. |
| N | National "Red" and "Blue" networks. | | |
| P | Has construction permit only. | | |

INDEX BY FREQUENCIES AND DIAL NUMBERS

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FOR KEY TO SYMBOLS SEE PAGE 45

540 kilocycles 555.6 meters

CKOK ac 5000 CG Windsor, Ont.

Essex Broadcasters, Ltd.

550 kilocycles 545.1 meters

KEDY ae 500 (1)1 Brookings, S. D.
KEDU ae 500 2(1) St. Louis, Mo.
KELY ah 1000 1N(2.5) Bismarck, No. Dakota
ROAC ak 1000 Corvallis, Ore.
RSD ak 500 2R St. Louis, Mo.
WDEV ae 500 D Waterbury, Vt.
WGE ae 1000 C Buffalo, N. Y.
WKRC ak 1000 C Cincinnati, Ohio

South Dakota State College
 Evangelical Lutheran Church
 Meyer Broadcasting Co.
 Oregon State Agricultural College
 Pulitzer Publishing Co.
 Harry G. Whitehill
 Buffalo Broadcasting Corp.
 WKRC, Inc., Hotel Alms

560 kilocycles 535.4 meters

KFDM ak 500 (1) Beaumont, Texas
KLZ ae 1000 C Denver, Colo.
KTAB ae 1000 San Francisco, Calif.
WEL ae 500 1R Philadelphia, Pa.
WTRQ ae 1000 (1.5)a Chicago, Ill.
WLIT ak 500 1R Philadelphia, Pa.
WVX ak 1000 C(2) Knoxville, Tenn.
WPCC ak 500 Sa Chicago, Ill.
WOAM ae 1000 C Miami, Fla.

Sabine Broadcasting Co., Inc.
 Reynolds Radio Co., Inc.
 Associated Broadcasters, Inc.
 WFI Broadcasting Co.
 Nelson Bros. Bond & Mtg. Co.
 Lit Bros. Broadcasting System, Inc.
 So. Carolina Broadcasting Co., Inc.
 North Shore Congregational Church
 Miami Broadcasting Co.

570 kilocycles 526.0 meters

KGKO z 250 (.5) Wichita Falls, Texas
KMTR ae 500 Hollywood, Calif.
KVI ae 500 C Tacoma, Wash.
TGW z 50 Guatamala
WFAO ae 750 1 Columbus, Ohio
WIBN ak 500 1 Youngstown, Ohio
WNCA ak 500 3 New York, N. Y.
WYAX ae 1000 C Yankton, S. D.
WNYC ak 500 3 New York, N. Y.
WYSX ak 250 R(2)a Syracuse, N. Y.
WWKC ae 1000 N Asheville, N. C.

Wichita Falls Broadcasting Co.
 KMTR Radio Corp.
 Puget Sound Broadcasting Co.
 Guatamala
 Ohio State University
 WKBN Broadcasting Corp.
 Knickerbocker Broadcasting Co., Inc.
 House of Gurney, Inc.
 Dept. of Plant & Structures
 Clive B. Meredith Estate (WMAAC)
 Citizens Broadcasting Co., Inc.

580 kilocycles 516.9 meters

CFCY ae 500 E Charlottetown, P. E. I.
CHMA ak 250 4S Edmonton, Alta.
CKCI agj 500 Toronto, Ont.
CRUA ak 500 4F Edmonton, Alta.
CMCA z 250 588 Havana, Cuba
CMDD z 150 588 Havana, Cuba
KMI ak 500 CT Fresno, Calif.
KSAC ak 500 2(1) Manhattan, Kans.
WDBO ae 250 C(2) Orlando, Fla.
WIBW ae 1000 C(2) Topeka, Kans.
WOBV ak 250 1(.5) Charleston, W. Va.
WSAZ ak 250 1(.5) Huntington, W. Va.
WTAG ae 250 R(.5) Worcester, Mass.

Island Radio Broadcasting Co., Ltd.
 Christian & Missionary Alliance
 The Dominion Battery Co.
 University of Alberta
 Rafael Rodriguez
 G. deSequeira
 McClatchy Radio Stations (Fresno Bee)
 State Agricultural College
 Orlando Broadcasting Co., Inc.
 Capper Publications
 WOBV, Inc., Ruffner Hotel
 WSAZ, Inc.
 Worcester Telegram Pub. Co., Inc.

590 kilocycles 508.2 meters

CIGC ae 5000 595GZ London, Ont.
KHO ak 1000 N(2) Spokane, Wash.
WCAJ ae 500 1 Lincoln, Neb.
WEEL ak 1000 R Boston, Mass.
WKZO ae 1000 D Kalamazoo, Mich.
WOW aeh 1000 1R Omaha, Neb.

Free Press Printing Co., Ltd.
 Louis Wasmer, Inc.
 Nebraska Wesleyan University
 Edison Electric Illuminating Co.
 WKZO, Inc., Burdick Hotel
 Woodmen of the World

INDEX BY FREQUENCIES AND DIAL NUMBERS

600 kilocycles 499.7 meters

CNRO	ak	500	F	Ottawa, Ont.
KFSO	ah	500	N(1)	San Diego, Calif.
WCAC	ak	250	2	Storrs, Conn.
WCAC	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.

KCY5.
680
MTRS.
440.9
DIAL

610 kilocycles 491.5 meters

KERC	ae	1000	C	San Francisco, Calif.
WDAF	ae	1000	R	Kansas City, Mo.
WIP	ak	500	C	Philadelphia, Pa.
WLAY	ae	500	D	Cleveland, Ohio
XETR	z	2500	.....	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.
WFBZ	ak	500	C	Bangor, Maine
WSPK	ae	1000	Na(2.5)	St. Petersburg, Fla.
WTMI	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

CECT	ae	500	G	Victoria, B. C.
CGX	ae	500	FL	Yorkton, Sask.
CKOC	ae	1000	635aG	Hamilton, Ont.
CKRE	aej	1000	635aL	St. Catharines, Ont.
CNCG	z	150	.....	Havana, Cuba
CNO	z	250	.....	Havana, Cuba
CNRA	ae	700	F	Moncton, N. B.
HIX	ah	1000	.....	Santo Domingo, D. R.
KFRU	ak	500	1	Columbia, Mo.
KGFJ	z	200	D	Pierre, S. D.
WGFB	ae	500	W	Evansville, Ind.
WMAI	ae	250	C(5)	Washington, D. C.
WOS	ak	500	1D	Jefferson City, Mo.
XETF	ak	500	K	Veracruz, Ver., 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

640 kilocycles 468.5 meters

CHRC	ak	100	645aG	Quebec, Que.
CKCI	ck	100	645a	Quebec, Que.
CKCR	ak	100	645G	Waterloo, Ont.
KPL	ah	50000	N1	Los Angeles, Calif.
WALI	ae	500	1	Columbus, Ohio
WOL	ae	5000	D	Ames, Iowa

CHRC, Ltd., Victoria Hotel
Le Soleil, Ltd.
Mitchell & Liddle
Earle 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.
RJS	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.
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WMAQ, Inc. (NBC Lessees)

680 kilocycles 440.9 meters

CMAC	ak	1000	Havana, Cuba
KPEO	ae	2500	D	St. Joseph, Mo.
KPO	ak	5000	N	San Francisco, Calif.
WELF	ae	1000	N Dn	Raleigh, N. C.
XFG	z	2000	683.3	Mexico, Mexico

International Broadcasting Co.
Scroggin & Co., Bank
National Broadcasting Co., Inc.
Durham Life Insurance Co.
Sria. de Guerra y Marina

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690 kilocycles 434.5 meters

CFAC	ak	500	1G	Calgary, Alta.
CFRB	ae	10000	CM	Toronto, Ont.
CICI	ak	500	1LE	Calgary, Alta.
NAA	z	1000		Arlington, Va.
VAS	z	2000	685(4)	Glace Bay, N. S.
XET	ck	500		Monterrey, Mexico
VOX	z	100		Halifax, N. S.

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

700 kilocycles 428.3 meters

WLW	ae	5000	B	Cincinnati, Ohio
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The Crosley Radio Corporation		

710 kilocycles 422.3 meters

KMPC	z	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.
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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	Villa Acuna, Mexico

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

740 kilocycles 405.2 meters

CICA	ae	500	745EL	Edmonton, Alberta
KMMJ	bk	1000	Dn	Clay Center, Neb.
WSB	aeH	5000	N	Atlanta, Ga.
WHBE	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

KGLL	aj	2500	NX	Honolulu, Hawaii
VOWR	ak	750		St. John's, N. F.
WJR	ak	10000	B	Detroit, Mich.
XEQ	aeH	5000		Juarez, Chih., Mexico

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

760 kilocycles 394.5 meters

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

American Radio Tel. Co. (See 1060 keys. 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 Bdcg. Corp. (Wrigley Bldg.)		

780 kilocycles 384.4 meters

CKY	z	5000		Winnipeg, Man.
CMBS	z	150		Havana, Cuba
CMCQ	z	1000		Havana, Cuba
KELW	aeH	500	2	Burbank, Calif.
KTLN	ae	500	2(1)	Los Angeles, Calif.
WEAN	ak	250	CH(.5)	Providence, R. I.
WVC	ak	500	N(1)	Memphis, Tenn.
WPCB	aeH	500	b	Portsmouth, Va.
WTAR	aeH	500	bC	Norfolk, Va.
NEZ	z	500		Mexico, Mexico

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. Joaquin Capiña		

790 kilocycles 379.5 meters

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

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

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800 kilocycles 374.8 meters

<u>WBAP</u>	ak	10000	1N	Fort Worth, Texas
<u>WFAA</u>	ak	50000	1N	Dallas, Texas

Carter Publications, Inc.
Dallas News-Dallas Journal

810 kilocycles 370.2 meters

<u>CHNS</u>	ae	500	815aZG	Halifax, N. S.
<u>CNRH</u>	ak	500	815aZ	Halifax, N. S.
<u>VOAS</u>	ak	200	D	St. John's, N. F.
<u>WCCO</u>	ae	5000	C	Minneapolis, Minn.
<u>WPCH</u>	ak	500	D	New York City
<u>XFC</u>	z	250	.....	Aguascalientes, Mex.

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

KCY5

890

820 kilocycles 365.6 meters

<u>CMGC</u>	z	30	.....	Matanzas, Cuba
<u>WHAS</u>	aj	25000	C	Louisville, Ky.

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

MTRS

336.9

DIAL

830 kilocycles 361.2 meters

<u>CMGA</u>	z	100	834	Colon, Cuba
<u>KOA</u>	ak	12500	NJ	Denver, Colo.
<u>WEEU</u>	ak	1000	D	Reading, Pa.
<u>WTDJ</u>	ae	1000	DY	Boston, Mass.
<u>WRUF</u>	ae	5000	DnC	Gainesville, Fla.

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

840 kilocycles 356.9 meters

<u>CHNC</u>	z	500	a	Toronto, Ont.
<u>CKGW</u>	ae	5000	NEa	Toronto, Ont.
<u>CKLC</u>	ak	1000	G	Red Deer, Alta.
<u>CMC</u>	z	500	.....	Havana, Cuba
<u>CFRY</u>	ae	5000	La	Toronto, Ont.

Canadian National Carbon Co., Ltd.
Gooderham & Worts, Ltd.
Alberta Pacific Grain Co., Ltd.
Cuban Telephone Co.
Canadian Pacific Co., Royal York Hotel

850 kilocycles 352.7 meters

<u>KIEV</u>	z	100	D	Glendale, Calif.
<u>KWKH</u>	ae	10000	1	Shreveport, La.
<u>WWL</u>	ak	5000	1DnX	New Orleans, La.

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

860 kilocycles 348.6 meters

<u>WABC</u>	ae	50000	aC	New York City
<u>WBOO</u>	ae	50000	a	New York City
<u>WHB</u>	ae	500	D	Kansas City, Mo.
<u>XFX</u>	z	500	867	Mexico City, Mexico

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

870 kilocycles 344.6 meters

<u>WENR</u>	ak	50000	Na	Chicago, Ill.
<u>WLS</u>	ae	50000	Na	Chicago, Ill.
<u>XFF</u>	z	500	875	Chihuahua, Mexico

Great Lakes Bdctg. Co. NBC Opr.
Agricultural Broadcasting Co.
Gobierno del Estado de Chihuahua

880 kilocycles 340.7 meters

<u>CHML</u>	ae	50	4G	Hamilton, Ont.
<u>CICR</u>	ak	100	G	Sydney, N. S.
<u>CKCV</u>	ak	100	.....	Quebec, Que.
<u>CKPC</u>	ak	100	4L	Preston, Ont.
<u>KBNA</u>	ak	500	2(1)	Greeley, Colo.
<u>KLX</u>	ae	500	2	Oakland, Calif.
<u>KPOF</u>	ae	500	2	Denver, Colo.
<u>WCOG</u>	ae	500	(1)	Meridian, Miss.
<u>WGBI</u>	ah	250	Q1	Scranton, Pa.
<u>WQAN</u>	ak	250	1	Scranton, Pa.
<u>WSUI</u>	ae	500	.....	Iowa City, Iowa

Maple Leaf Radio Co., Ltd.
Nathansan'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

890 kilocycles 336.9 meters

<u>CFBO</u>	z	500	.....	St. John, N. B.
<u>CKCO</u>	z	100	3	Ottawa, Ont.
<u>CKRP</u>	ak	100	3G	Fort William, Ont.
<u>CMCF</u>	ak	250	1	Havana, Cuba
<u>CMK</u>	ae	500	1	Havana, Cuba
<u>KARK</u>	ak	250	.....	Little Rock, Ark.
<u>KENF</u>	ak	500	2(1)	Shenandoah, Iowa
<u>KSET</u>	ae	250	(.5)	Pocatello, Idaho
<u>KUSD</u>	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

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VOGT z 400 893
 WGST ae 250 C(.5)
 WILL ak 250 2(.5)
 WJAR ae 250 (.5)R
 WMMN aeh 250 (.5)

Wabana, N. F.
 Atlanta, Ga.
 Urbana, Ill.
 Providence, R. I.
 Fairmont, W. Va.

The Gaiety Theatre
 Southern Broadcasting Co.
 University of Illinois
 The Outlet Co.
 A. M. Rowe, Inc.

900 kilocycles 333.1 meters

KGBU z 500
 KHLI ae 1000 CT
 WBEW ae 1000 R
 WJAX aeh 1000 N
 WKY ae 1000 N
 WLEL ae 2000 D

Ketchikan, Alaska
 Los Angeles, Calif.
 Buffalo, N. Y.
 Jacksonville, Fla.
 Oklahoma City, Okla.
 Stevens Point, Wis.

Alaska Radio & Service Co.
 Don Lee Broadcasting System
 WBEW, Inc., Buffalo Evening News
 City of Jacksonville
 Oklahoma Publishing Co.
 Wis. Dept. Agriculture & Markets

910 kilocycles 329.6 meters

CFQC z 500
 CFCL ae 100 915
 TIGR z 50 911
 VOGO z 500 P
 XEW z 5000

Saskatoon, Sask.
 Prescott, Ont.
 San Jose, Costa Rica
 St. John's, N. F.
 Mexico City, Mexico

The Electric Shop, Ltd.
 Radio Association of Prescott

Mexico Music Co.

920 kilocycles 325.9 meters

CMCD aeh 250 925
 CMDE z 250 925
 HHK z 1000
 KEEL ak 500 1
 KXSE ae 500 1
 KOMO aj 1000 N
 KPRC ae 1000 N(2.5)
 WAAP ak 500 D
 WBSO ae 500 D
 WWT ak 1000 R

Havana, Cuba
 Havana, Cuba
 Port au Prince, Haiti
 Denver, Colo.
 Denver, Colo.
 Seattle, Wash.
 Houston, Texas
 Chicago, Ill.
 Babson Park, Mass.
 Detroit, Mich.

Angel Bertermaty y Garcia
 Evilio Villar
 Republic of Haiti
 Gene O'Fallon (Albany Hotel)
 Colorado Radio Corp.
 Fisher's Blend Station, Inc.
 Houston Printing Co. (Houston Post)
 Drivers Journal Publishing Co.
 Broadcasting Service Org., Inc.
 The Detroit News

930 kilocycles 322.4 meters

CFCH aj 100 3LM
 CFRC ak 50 3(2)
 CKX ak 500 E
 CMJF z 200
 KEWJ aj 500 1
 KGBZ ak 500 2(1)
 KMA ae 500 2(1)
 KROW ak 500 1(1)
 WBRC ak 500 C(1)
 WDBJ ae 250 C(.5)
 WIBC aeh 25 D

North Bay, Ont.
 Kingston, Ont.
 Brandon, Manitoba
 Camaguey, Cuba
 San Francisco, Calif.
 York, Neb.
 Shenandoah, Iowa
 Oakland, Calif.
 Birmingham, Ala.
 Roanoke, Va.
 Glenside, Penna.

Northern Supplies, Ltd.
 Queen's University
 Manitoba Telephone System
 John L. Stowers
 Radio Entertainments, Ltd.
 Dr. Geo. R. Miller
 Earl E. May Seed & Nursery Co.
 Educational Broadcasting Corp.
 Birmingham Bldg. Co., Inc.
 Times-World Corp.
 WIBC, Inc. (Keswick Bldg.)

940 kilocycles 319.0 meters

KOIN zk 1000 CT
 WAAT ae 300 D
 WCSI ae 1000 R(2.5)
 WDAY ae 1000 N
 WELW ae 1000 C
 WHA ak 1000 D
 XEFO ak 5000 (35)

Portland, Ore.
 Jersey City, N. J.
 Portland, Maine
 Fargo, N. Dakota
 Hopkinsville, Ky.
 Madison, Wis.
 Mexico City, Mexico

KOIN, Inc. (New Heathman Hotel)
 Bremer Broadcasting Corp.
 Congress Square Hotel Co.
 WDAY, Inc. (Black Bldg.)
 WFTW, Inc.
 University of Wisconsin
 National Revolutionary Party

950 kilocycles 315.6 meters

CMHD z 250
 KEWB ak 1000
 KGHL ak 1000 NJ(2.5)
 KMBC ak 1000 C
 YONA z 100
 WRC ak 500 N

Caibarien, Cuba
 Los Angeles, Calif.
 Billings, Mont.
 Kansas City, Mo.
 St. John's, N. F.
 Washington, D. C.

Manual Alvarez
 Warner Bros. Broadcasting Corp.
 Northwestern Auto Supply Co.
 Midland Bldg. Co. (Pickwick Hotel)
 Lane, Gillard & Avery
 National Broadcasting Co., Inc.

960 kilocycles 312.3 meters

CHCK ak 100 V
 CHWC ak 500 3FL
 CKCK ak 500 3FL
 CKNC ak 500 M
 CMAY z 150 965
 CMBC aeh 150 965
 CMIL z 50
 XED z 1000 965

Charlottetown, P.E. I.
 Regina, Sask.
 Regina, Sask.
 Toronto, Ont.
 Havana, Cuba
 Havana, Cuba
 Camaguey, Cuba
 Reynosa, Mexico

J. A. Gesner & W. E. Burke
 R. H. Williams & Sons, Ltd.
 Leader Post, Ltd. (Leader Bldg.)
 Canadian National Carbon Co., Ltd.
 Efigenio Oliver
 Domingo Fernandez
 Enrique Artimes
 International Broadcasting Co.

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970 kilocycles 309.1 meters

<u>KTR</u>	ae	5000	N	Seattle, Wash.
<u>WCEL</u>	ak	1500	RX	Chicago, Ill.

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Northwest Broadcasting System, Inc.
Chicago Federation of Labor

980 kilocycles 305.9 meters

<u>CFRN</u>	ak	10000	985FL	Calgary, Alberta
<u>CMGF</u>	z	100	987	Matanzas, Cuba
<u>KDKA</u>	ak	50000	B	Pittsburgh, Pa.

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

990 kilocycles 302.8 meters

<u>WBZ</u>	ak	25000	BA	Boston, Mass.
<u>WBZA</u>	ak	1000	BA	Springfield, Mass.
<u>XEK</u>	z	101	Mexico City, Mexico

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

1000 kilocycles 299.8 meters

<u>KEVD</u>	ak	250	Dn	Los Angeles, Calif.
<u>WHO</u>	z	5000	RAX	Des Moines, Iowa
<u>WOC</u>	ak	5000	RAX	Davenport, Iowa
<u>WOKR</u>	aj	1000	D	York, Pa.
<u>XEC</u>	z	50	.....	Toluca, Mexico
<u>XEE</u>	z	105	.....	Oaxaca, Oax., Mexico
<u>XEFE</u>	z	100	.....	N. Laredo, Tams., Mex.
<u>XEFI</u>	z	100	.....	Chihuahua, Mexico
<u>XEFS</u>	z	40	.....	Queretaro, Mexico
<u>XEJ</u>	ak	100	K	Juarez, Mexico
<u>XEL</u>	ak	25	.....	Saltillo, Mexico
<u>XETC</u>	z	100	.....	Jalapa, Ver., Mexico
<u>XETG</u>	z	100	.....	Torreon, Coah., Mex.
<u>XEU</u>	ak	100	1007K	Veracruz, Mexico
<u>XEV</u>	z	100	Puebla, Pue., Mex.
<u>XEY</u>	z	105	Merida, Yuc.

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Los Angeles Broadcasting Co.
Central Broadcasting Co.
Central Broadcasting Co.
York Broadcasting Co.
Jesus R. Benavides
Alfonso Zorilla B.
Rafael T. Carranza
Feliciano Lopez Islas
Salvador Sandhez
Juan G. Buttner & Leo Allande
Antonio Garza Castro y J. T. Perez
Juventino Sanchez
Feliciano Lopez Islas
Baltasar Pazos Sosa
Ciro Molina
Partido Socialista S. E.

KCYS.
1050
MTRS.
285.5
DIAL

1010 kilocycles 296.8 meters

<u>CKIC</u>	ak	50	.....	Wolfville, N. S.
<u>CMBZ</u>	ak	150	.....	Havana, Cuba
<u>CMCX</u>	z	150	.....	Havana, Cuba
<u>KGGF</u>	ak	500	2(1)Y	So. Coffeyville, Okla.
<u>KOW</u>	ae	500	T	San Jose, Calif.
<u>WHN</u>	ae	250	1	New York City
<u>WIS</u>	ae	500	N(1)	Columbia, S. C.
<u>WNAD</u>	ae	500	2	Norman, Okla.
<u>WPAP</u>	ae	250	1a	New York City
<u>WOAO</u>	ae	250	1a	New York City
<u>WRNY</u>	z	250	1	New York City

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Acadia University
Manuel & Guillermo Salas
Diariz "El Mundo"
Powell & Platz
Pacific Agricultural Foundation, Ltd.
Marcus Loew Booking Agency
South Carolina Bdctg. Co., Inc.
University of Oklahoma
Jersey Boulevard Corp.
Jersey Boulevard Corp.
Aviation Radio Station, Inc.

1020 kilocycles 293.9 meters

<u>KYW</u>	ae	10000	N	Chicago, Ill.
<u>WRAX</u>	ae	250	D	Philadelphia, Pa.
<u>XEFD</u>	z	300	Tiajuana, Mex.

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

1030 kilocycles 291.1 meters

<u>CECE</u>	ae	500	NG	Montreal, Que.
<u>CMHI</u>	ck	30	a	Santa Clara, Cuba
<u>CMKC</u>	z	150	1034a	Santiago de Cuba
<u>CNRV</u>	ak	500	Vancouver, B. C.
<u>XEB</u>	ak	1000	Mexico City, Mexico

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

1040 kilocycles 288.3 meters

<u>CMGH</u>	z	15	.....	Matanzas, Cuba
<u>KRLD</u>	ae	10000	1C	Dallas, Tex.
<u>KTHS</u>	ae	10000	1N	Hot Springs, Ark.
<u>WKAR</u>	ae	1000	D	East Lansing, Mich.

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

1050 kilocycles 285.5 meters

<u>CMJG</u>	z	50	.....	Camaguey, Cuba
<u>KEBI</u>	ae	5000	Dn	Abilene, Kans.
<u>KNX</u>	ae	5000	X	Hollywood, Calif.
<u>XEFC</u>	z	10	Merida, Yuc.
<u>XES</u>	adk	500	1055K	Tampico, Mexico

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Jose Antonio Lefran
Farmers & Bankers Life Ins. Co.
Western Broadcast Co.
Hugo Molina Font
Wendell Cox

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1060 kilocycles 282.8 meters

<u>KWJL</u>	z	500	Dn	Portland, Ore.
<u>WBAL</u>	ae	10000	1B	Baltimore, Md.
<u>WTAG</u>	ak	1000	Dn	Norfolk, Neb.
<u>WTIC</u>	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

<u>CMBC</u>	z	225	.....	Havana, Cuba
<u>CMCB</u>	af	150	.....	Havana, Cuba
<u>KIBS</u>	ae	100	D	San Francisco, Calif.
<u>WCAY</u>	ae	50	D	Carthage, Ill.
<u>WDCZ</u>	ak	100	D	Tuscola, Ill.
<u>WTAM</u>	ak	50000	R	Cleveland, Ohio
<u>XFC</u>	z	250	.....	Mexico City, Mexico

John L. Stowers
Metropolitan-Radio de Cuba
Julius Brunton & Sons Co.
Superior Bdctg. Service, Inc.
James L. Bush
National Broadcasting Co., Inc.
Miguel Yarza

1080 kilocycles 277.6 meters

<u>WBT</u>	ae	25000	CU	Charlotte, N. C.
<u>WCBD</u>	ae	5000	1Dn	Zion, Ill.
<u>WMRI</u>	ck	5000	1Dn	Chicago, Ill.

Station WBT, Inc.
Wilbur Glenn Voliva
Moody Bible Institute

1090 kilocycles 275.1 meters

<u>KMOX</u>	ak	50000	C	St. Louis, Mo.
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Voice of St. Louis, Inc.

1100 kilocycles 272.6 meters

<u>KGDM</u>	ak	250	D	Stockton, Calif.
<u>WLWL</u>	ae	5000	1	New York City
<u>WPG</u>	ae	5000	1C	Atlantic City, N. J.

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

1110 kilocycles 270.1 meters

<u>CMJO</u>	z	15		Ciego de Avila, Cuba
<u>KSQO</u>	ae	1000	Dn(2.5)	Sioux Falls, So. Dak.
<u>VONF</u>	z	500	1115	St. John's, N. F.
<u>WRVA</u>	ae	5000	N	Richmond, Va.
<u>XENT</u>	z	50000	1115	Neuvo Laredo, Mex.

Rey-Borges
Sioux Falls Broadcast Assn., Inc.

Larus & Bros. Co., Inc.
Norman T. Baker

1120 kilocycles 267.7 meters

<u>CECA</u>	ak	500	G	Toronto, Ont.
<u>CEFC</u>	ak	100	EL	Kamloops, B. C.
<u>CEGS</u>	ce	100	VX	Summerside, P. E. I.
<u>CJOC</u>	ak	100		Lethbridge, Alta.
<u>CMHJ</u>	ae	40	1125	Cienfuegos, Cuba
<u>KEIQ</u>	ae	100	D	Spokane, Wash.
<u>KFSG</u>	ak	500	3	Los Angeles, Calif.
<u>KSKD</u>	aeH	500	3	Los Angeles, Calif.
<u>KRSC</u>	ak	100	D	Seattle, Wash.
<u>KTRH</u>	ak	500	2C	Houston, Tex.
<u>WDEL</u>	aj	250	(.5)	Wilmington, Del.
<u>WHAD</u>	ae	250	1C	Milwaukee, Wis.
<u>WISN</u>	ak	250	1C	Milwaukee, Wis.
<u>WTAW</u>	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.
Dalton's, Inc. (Arcade Bldg.)
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

<u>KSL</u>	ae	5000	C	Salt Lake City, Utah
<u>WLID</u>	ze	20000	Dn	Chicago, Ill.
<u>WQV</u>	ae	1000	D	New York City
<u>XEH</u>	ak	1000	1132	Monterrey, Mexico

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

1140 kilocycles 263.0 meters

<u>CMBJ</u>	z	150	.....	Havana, Cuba
<u>CMBW</u>	z	150	.....	Havana, Cuba
<u>KVOO</u>	ae	5000	1N	Tulsa, Okla.
<u>WAPI</u>	aj	5000	1N	Birmingham, Ala.
<u>XETA</u>	z	500	.....	Mexico City, Mexico

Emilio Perera
Alvarez-Moris
Southwestern Sales Corp.
WAPI Broadcasting Corp.
Manuel Espinosa Tagle

1150 kilocycles 260.7 meters

<u>CMJH</u>	ak	50	.....	Ciego de Avila, Cuba
<u>WHAM</u>	ae	5000	BX	Rochester, N. Y.
<u>XEA</u>	ak	500	K1155	Guadalajara, Mexico
10-AT	z	25	1155	Trail, B. C.

Luis Marauri Mendoza
Stromberg-Carlson Tel. Mfg. Co.
Radiofonografica de Guadalajara, S. A.
Trail Amateur Radio Assn.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1160 kilocycles 258.5 meters

WOWO	ae	10000	1C	Fort Wayne, Ind.
WVVA	ae	5000	1C	Wheeling, W. Va.

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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.

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Manuel Fernandez
Universal Broadcasting Corp.

1180 kilocycles 254.1 meters

CMW	ae	1400	1185	Havana, Cuba
KEX	ak	5000	2N	Portland, Ore.
KOB	ae	10000	2	Albuquerque, N. M.
WDGY	ak	1000	Dn	Minneapolis, Minn.
WINS	ae	500	New York City
WMAZ	ak	500	Macon, Ga.

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Troncoso y Gil
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
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Southern Equipment Co.

1200 kilocycles 249.9 meters

CHCH	z	100	Montreal, Que.
KCOV	ak	100	.....	Kelowna, B. C.
CMGB	z	30	1205	Matanzas, Cuba
KBTM	ak	100	D	Paragould, Ark.
KERN	ak	100	CT	Bakersfield, Calif.
KELB	ak	100	(.25)	Marshalltown, Iowa
KFWF	ak	100	5	St. Louis, Mo.
KFXD	ae	100	.....	Nampa, Idaho
KGDE	ae	100	(.25)	Fergus Falls, Minn.
KGDY	ak	100	.....	Huron, S. D.
KGEK	ak	100	9	Yuma, Colo.
KGEW	ak	100	9	Ft. Morgan, Colo.
KGEL	ae	100	.....	Los Angeles, Calif.
KGHI	ak	100	.....	Little Rock, Ark.
KCVO	ak	100	.....	Missoula, Mont.
KMLB	ae	100	.....	Monroe, La.
KVOS	z	100	.....	Bellingham, Wash.
KWG	aeh	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.
WFAM	ak	100	8C	South Bend, Ind.
WFBE	ak	100	(.25)	Cincinnati, Ohio
WHBC	ak	10	.....	Canton, Ohio
WHBY	ak	100	.....	Green Bay, Wis.
WIBX	z	100	(.3)	Utica, N. Y.
WIL	ae	100	5(.25)	St. Louis, Mo.
WIBC	ae	100	6	LaSalle, Ill.
WIBL	ae	100	6	Decatur, Ill.
WIRW	ak	100	1	New Orleans, La.
WKIC	ak	100	3	Lancaster, Pa.
WLAP	ae	100	(.25)	Louisville, Ky.
WNBO	aeh	100	.....	Washington, Pa.
WNBC	z	10	(.1)	Carbondale, Pa.
WORC	ak	100	CH	Worcester, Mass.
WPHR	ae	100	(.25)	Petersburg, Va.
WRBL	ak	100	.....	Columbus, Ga.
WVAE	aeh	100	8	Hammond, Ind.
WLAB	ak	25	.....	Moose Jaw, Sask.
WAK	ak	15	.....	Stratford, Ont.
WBI	ak	25	Prince Albert, Sask.
WBP	ak	25	1199	Wingham, Ont.
WBO	ak	15	Brantford, Ont.
WBU	z	15	Canora, Sask.

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Montreal Radio Corp.
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)
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.
Liner'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)
The Post Publishing Co., Opr.
Edward P. Graham
St. Norbert College (Bellin Bldg.)
WIBX, Inc.
Missouri Broadcasting Corp.
Kaskaskia Broadcasting Co.
Commodore Broadcasting, Inc.
C. C. Carlson
Lancaster Bdctg. Service, Inc.
American Broadcasting Corp. of Ky.
Spriggs Symplex
WNBW, Inc.
A. F. Kleindienst
WLBG, Inc.
WRBL Radio Station, Inc.
Hammond-Galumet Bdctg. 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

1210 kilocycles 247.8 meters

CECQ	ak	250	8G	Chatham, Ont.
CFNB	ae	100	E	Fredericton, N. B.

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John Beardall (Wm. Pitt Hotel)
James S. Neill & Sons, Ltd.

INDEX BY FREQUENCIES AND DIAL NUMBERS

<p> <u>CIOR</u> ak 500 E <u>CKMC</u> ak 100 8 <u>KASA</u> ak 100 <u>KDLR</u> ak 100 <u>KFLI</u> ak 100 <u>KFOR</u> ak 100 <u>KFPW</u> ak 100 <u>REVS</u> ae 100 6 <u>REXM</u> ak 100 9 <u>KGCR</u> ah 100 <u>KGNO</u> ak 100 <u>KGY</u> ak 100 <u>KIEM</u> z 100 DP <u>KPPC</u> ak 50 9 <u>KWFA</u> z 100 <u>WALR</u> ae 100 <u>WBAX</u> ae 100 1 <u>WBBI</u> ak 100 7S <u>WBES</u> ak 100 2 <u>WCRW</u> ae 100 4 <u>WQBO</u> ae 100 6 <u>WEDC</u> z 100 4 <u>WEAS</u> ak 100 3 <u>WGBB</u> ae 100 3 <u>WGCM</u> ae 100 5 <u>WHBF</u> ae 100 <u>WHBU</u> aj 100 <u>WHET</u> ak 100 D <u>WIU</u> ae 100 <u>WIBI</u> ak 100 3 <u>WIBU</u> ae 100 1 <u>WIBY</u> aeh 100 <u>WIZ</u> z 100 PD <u>WJW</u> ae 100 <u>WKFL</u> ak 100 5 <u>WMBG</u> aj 100 7C <u>WMT</u> ak 100 3 <u>WOCL</u> ak 50 <u>WDMT</u> ae 100 <u>WPAW</u> ak 100 a <u>WPRO</u> ak 100 a <u>WODX</u> z 100 <u>WSHC</u> z 100 4 <u>WSEK</u> ak 100 <u>WSFX</u> ae 100 <u>WSOC</u> ae 100 <u>WTAX</u> z 100 2 <u>XEX</u> z 500 z 50 P </p>	<p> Vancouver, B. C. Cobalt, Ont. Elk City, Okla. Devils Lake, N. Dak. Klamath Falls, Ore. Lincoln, Neb. Fort Smith, Ark. Cape Girardeau, Mo. San Bernardino, Calif. Watertown, S. Dak. Dodge City, Kans. Olympia, Wash. Eureka, Calif. Pasadena, Calif. Shreveport, La. Zanesville, Ohio Wilkes-Barre, Pa. Richmond, Va. Springfield, Ill. Chicago, Ill. Harrisburg, Ill. Chicago, Ill. White Plains, N. Y. Freeport, N. Y. Gulfport, Miss. Rock Island, Ill. Anderson, Ind. Troy, Ala. Poynette, Wis. Red Bank, N. J. Lewisburg, Pa. Gadsden, Ala. Hagerstown, Md. Akron, Ohio Greenville, Miss. Richmond, Va. Jamaica, N. Y. Jamestown, N. Y. Manitowoc, Wis. Providence, R. I. Providence, R. I. Thomasville, Ga. Chicago, Ill. Columbus, Ohio Springfield, Tenn. Gastonia, N. C. Springfield, Ill. Mexico City, Mexico Chester Twp., N. Y. </p>	<p> George C. Chandler R. L. McAdam E. M. Woody (Casa Grande Hotel) KDLR, Inc. KFJI Broadcasters, Inc. Howard A. Shuman Southwestern Hotel Co. Oscar C. Hirsch J. C. & E. W. Lee Greater Kampeska Radio Corp. Dodge City Broadcasting Co. KGY, Inc. (Capitol Park Bldg.) Harold H. Hanseth Pasadena Presbyterian Church Hello World Broadcasting Corp. WALR Broadcasting Corp. John H. Stenger, Jr. (Morris Bldg.) Grace Covenant Pres. Church Chas. H. Messter & Harold L. Dewing Clinton R. White Harrisburg Broadcasting Co. Emil Denmark, Inc. Westchester Broadcasting Corp. Harry H. Carman Great Southern Land Co. Beardsley Specialty Co. (Harms Hotel) Anderson Broadcasting Corp. Troy Broadcasting Co. Wm. C. Forrest Monmouth Broadcasting Co., Inc. Bucknell University Ingrams Broadcasting Co. A. V. Tidmore John F. Weimer J. Pat Scully Havens & Martin, Inc. Peter J. Prinz A. E. Newton Francis Mangin Kadow Cherry & Webb Broadcasting Co. Cherry & Webb Broadcasting Co. Stevens Luke World Battery Co., Inc. Columbus Bldg. Corp. (Seneca Hotel) 638 Tire & Vulc. Co. (R/C WLW) WSOC, Inc. WTAX, Inc. Excelsior, CIA Editorial S. A. Peter Goelet </p>
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1220 kilocycles 245.8 meters

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

1230 kilocycles 243.8 meters

<p> <u>CMBY</u> z 350 <u>CMCA</u> z 150 <u>KFOA</u> aj 250 <u>KGCM</u> ak 250 (.5) <u>KYA</u> ae 1000 N <u>WBNC</u> aeb 1000 1C <u>WJAC</u> ae 1000 CH <u>WPEC</u> ah 500 D <u>WSBT</u> ak 500 1C <u>XETQ</u> z 100 </p>	<p> Havana, Cuba Havana, Cuba Anchorage, Alaska Albuquerque, N. M. San Francisco, Calif. Indianapolis, Ind. Boston, Mass. State College, Pa. South Bend, Ind. Mexico, Mexico </p>
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Callejas-Estefani
 Manuel Cruz
 Anchorage Radio Club, Inc.
 New Mexico Broadcasting Co.
 Pacific Broadcasting Co.
 Indianapolis Power & Light Co.
 Shepard Broadcasting Service, Inc.
 Pennsylvania State College
 South Bend Tribune (WFAM)
 Carlos G. Caballero

1240 kilocycles 241.8 meters

<p> <u>CMAB</u> z 20 1249 <u>CMJN</u> z 50 <u>KGCV</u> ak 250 3 <u>KLPV</u> ak 250 3 </p>	<p> Pinar del Rio, Cuba Carnagey, Cuba Mandan, N. Dak. Minot, N. Dak. </p>
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Jose Silvera
 E. de Ugarriza
 Mandan Radio Assn.
 John B. Cooley

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
WXXY	ak	1000	.....	Detroit, Mich.	Kingsky-Trendle Broadcasting Corp.

1250 kilocycles 239.9 meters

KEMX	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.
WCSO	ae	1000	2	Northfield, Minn.	St. Olaf College
WDSO	ak	1000	C	New Orleans, La.	Jos. H. Uhalt
WGPC	ak	250	1	Newark, N. J.	May Radio Broadcasting Co.
WOB	ak	1000	2	Minneapolis, Minn.	University of Minnesota
WODA	z	1000	1	Paterson, N. J.	Richard E. O'Dea
WREN	ae	1000	2	Minneapolis, Minn.	Minnesota Broadcasting Corp.
XEFA	z	250	.....	Mexico City, Mexico	Manuel F. Murguia

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.)
WQA	ak	500	P	Tucson, Arizona	Robert M. Riculfi
WVWG	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.
WTQC	ae	500	CU	Savannah, Ga.	Savannah Broadcasting Co., Inc.

1270 kilocycles 236.1 meters

CMBD	z	150	.....	Havana, Cuba	Luis Perez Garcia
KGCN	z	250	.....	Havana, Cuba	Antonio Ginard
KMCA	ak	100	D2	Decorah, Iowa	Chas. W. Greenley
KOL	ae	1000	CT	Seattle, Wash.	Seattle Broadcasting Co.
KWOR	ae	1000	C	Colorado Springs, Col.	Reynolds Radio Co., Inc.
KWIC	ak	100	D2	Decorah, Iowa	Luther College
WASE	ak	500	a	Grand Rapids, Mich.	Kunsky-Trendle Broadcasting Corp.
WESG	ae	1000	D	Ithaca, N. Y.	Cornell University
WFRB	ae	500	R	Baltimore, Md.	Baltimore Radio Show, Inc.
WIOS	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.	Buttrey 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 Edctg. Corp. (Hotel Patten)
WIBA	ae	500	N(1)	Madison, Wis.	Badger Broadcasting Co., Inc.
WOAX	ae	500	1	Trenton, N. J.	Trenton Broadcasting Co.
WRB	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.
KFLC	ak	500	1	Galveston, Texas	News Publishing Co. (Buccaneer Hotel)
KLCN	z	50	D	Blytheville, Ark.	C. L. Lintzenich
KISA	ak	1000	1C(2.5)	San Antonio, Texas	Lone Star Broadcast Co. (Plaza Hotel)
WEBC	ae	1000	N(2.5)	Superior, Wis.	Head of the Lakes Broadcasting Co.
WIAS	ak	1000	C(2.5)	Pittsburgh, Pa.	Pittsburgh Radio Supply House
WNBZ	z	50	D	Saranac Lake, N. Y.	Smith & Mace

1300 kilocycles 230.6 meters

CMKJ	z	20	.....	Guantanamo, Cuba	Luis Morlote
KALE	ak	500	3C	Portland, Ore.	KALE, Inc.
KEAC	aj	1000	C	Los Angeles, Calif.	Los Angeles Broadcasting Co.
KOP	ae	1000	C	Wichita, Kans.	Wichita Eagle-Hotel Lassen
KOP	ag	500	3	Portland, Ore.	Ashley C. Dixon-KFJR, Inc.
WBBR	aej	1000	1	Brooklyn, N. Y.	Peoples Pulpit Assn.
WEAD	ae	500	1	New York City	Debs Memorial Radio Fund, Inc.
WEAP	ae	1000	1	New York City	Defenders of Truth Society, Inc.
WEAZ	z	500	1	Troy, N. Y.	Rensselaer Polytechnic Institute
WHAZ	ae	1000	N	Miami, Fla.	Isle of Dreams Broadcasting Corp.
WIOD	ae	1000	.....	Kansas City, Mo.	Unity School of Christianity
WOO	ak	1000	.....	Tampico, Tams, Mex.	Maria T. de Gutierrez
WEM	z	250	.....	

KYCS.
1300
MTRS.
230.6
DIAL

INDEX BY FREQUENCIES AND DIAL NUMBERS

1310 kilocycles 228.9 meters

<u>CMJP</u>	z	7.5	.....	Moron, Cuba	
<u>KCRI</u>	ak	100	D	Jerome, Arizona	Cesar Canals
<u>KEBK</u>	ak	100	C	Sacramento, Calif.	Chas. C. Robinson
<u>KFGQ</u>	ak	100	7	Boone, Iowa	Jas. McClatchy Co.
<u>KEPL</u>	ck	100	.....	Dublin, Texas	Boone Biblical College
<u>KEPM</u>	ae	15	.....	Greenville, Texas	C. C. Baxter
<u>KEFI</u>	ak	100	.....	Grand Junction, Colo.	New Furniture Co.
<u>KEFR</u>	ak	100	(.25)	Oklahoma City, Okla.	Western Slope Broadcasting Co.
<u>KEYO</u>	z	100	(.25)Z	Lubbock, Texas	Exchange Ave. Baptist Church
<u>KGBX</u>	ae	100	.....	Springfield, Mo.	T. E. Kirksey
<u>KGCX</u>	ak	100	(.25)	Wolf Point, Mont.	KGBX, Inc.
<u>KGEZ</u>	aj	100	.....	Kalispell, Mont.	First State Bank of Vida
<u>KGEW</u>	ah	100	.....	Kearney, Neb.	Donald C. Treloar
<u>KIT</u>	ak	100	.....	Yakima, Wash.	Central Nebraska Bdctg. Corp.
<u>KMED</u>	ak	100	.....	Medford, Ore.	Valley Broadcasters, Inc.
<u>KRMD</u>	ak	100	.....	Shreveport, La.	Mrs. W. J. Virgin
<u>KISM</u>	z	100	a	El Paso, Texas	KRMD, Inc. (Jefferson Hotel)
<u>KXRO</u>	ak	100	.....	Aberdeen, Wash.	Tri-State Broadcasting Co., Inc.
<u>WBEO</u>	z	100	.....	Marquette, Mich.	KXRO, Inc. (Hotel Morck)
<u>WBOW</u>	ak	100	.....	Terre Haute, Ind.	Lake Superior Broadcasting Co.
<u>WBRE</u>	z	100	.....	Wilkes-Barre, Pa.	Banks of Wash. Inc.
<u>WCLS</u>	ae	100	b	Joliet, Ill.	Louis G. Baltimore
<u>WDAH</u>	z	100	a	El Paso, Texas	WCLS, Inc.
<u>WEBB</u>	ae	100	Q(.25)	Buffalo, N. Y.	Tri-State Broadcasting Co., Inc.
<u>WEXL</u>	ak	50	.....	Royal Oak, Mich.	Howell Broadcasting Station
<u>WFBG</u>	ae	100	3	Altoona, Pa.	Royal Oak Broadcasting Co.
<u>WFDF</u>	ae	100	.....	Flint, Mich.	The William F. Gable Co.
<u>WGAL</u>	ae	100	5	Lancaster, Pa.	Frank D. Fallain (Union Ind. Bldg.)
<u>WGH</u>	ae	100	.....	Newport News, Va.	WGAL, Inc. (Lancaster Newsp. Bldg.)
<u>WHAT</u>	ak	100	4	Philadelphia, Pa.	Hampton Roads Broadcasting Corp.
<u>WIAT</u>	ak	100	7	Ottumwa, Iowa	Independence Broadcasting Co.
<u>WIAC</u>	ae	100	3	Johnstown, Pa.	Iowa Bdctg. Co. (Hotel Ottumwa)
<u>WKAY</u>	ae	100	.....	Laconia, N. H.	WJAC, Inc.
<u>WKBB</u>	ae	100	b	Joliet, Ill.	Laconia Radio Club
<u>WKBC</u>	z	100	.....	Birmingham, Ala.	Richard W. Hoffman
<u>WKBS</u>	z	100	.....	Galesburg, Ill.	R. B. Broyles Furniture Co.
<u>WLBC</u>	ak	50	6	Muncie, Ind.	Permil N. Nelson
<u>WMBO</u>	ak	100	.....	Auburn, N. Y.	D. A. Burton—A. J. Marriott
<u>WNBH</u>	ae	100	H(.25)	New Bedford, Mass.	WMBO, Inc. (Masonic Temple)
<u>WOL</u>	ae	100	.....	Washington, D. C.	New Bedford Bdctg. Co. (N. B. Hotel)
<u>WRAW</u>	ak	100	5X	Reading, Pa.	American Broadcasting Co.
<u>WROL</u>	ak	100	.....	Knoxville, Tenn.	Reading Broadcasting Co.
<u>WSAJ</u>	ae	100	.....	Grove City, Pa.	Stuart Bdctg. Co. (Farragut Hotel)
<u>WSIS</u>	ae	100	C	Winston-Salem, N. C.	Grove City College
<u>WTEL</u>	ae	100	4	Philadelphia, Pa.	Winston-Salem Journal Co.
<u>WTIS</u>	ak	100	(.25)	Jackson, Tenn.	Foulkrod Radio Eng. Co., Inc.
<u>WTRC</u>	ak	50	6	Elkhart, Ind.	Sun Publishing Co. (Sun Bldg.)
<u>WTSL</u>	z	100	.....	Laurel, Miss.	Elkhart Daily Truth
<u>WTFB</u>	ak	100	1315	Monterrey, N. L., Mex.	G. A. Houseman
<u>XET</u>	ak	150	.....	Morelia, Mexico	Quintanilla y Stevenson
					Carlos Gutierrez M.

1320 kilocycles 227.1 meters

<u>CMCR</u>	z	150	1325	Havana, Cuba	Aurelio Hernandez
<u>CMCW</u>	z	150	1325	Havana, Cuba	Jose Lorenzo
<u>KGHE</u>	ak	250	(.5)	Pueblo, Colo.	C. P. Ritchie & J. E. Finch
<u>KGMB</u>	ak	250	C	Honolulu, Hawaii	Honolulu Broadcasting Co.
<u>KID</u>	ae	250	(.5)	Idaho Falls, Idaho	KID Broadcasting Co., Inc.
<u>WADC</u>	ae	1000	C	Akron, Ohio	Allan T. Simmons
<u>WSMB</u>	ae	500	N	New Orleans, La.	WSMB, Inc.

1330 kilocycles 225.4 meters

<u>KGB</u>	ae	1000	CT	San Diego, Calif.	Don Lee Broadcasting System
<u>KMO</u>	ak	250	.....	Tacoma, Wash.	KMO, Inc. (Hotel Winthrop)
<u>KSCJ</u>	ah	1000	1C(.25)	Sioux City, Iowa	Perkins Bros. Co.
<u>WDRC</u>	ae	500	CH	Hartford, Conn.	WDRC, Inc.
<u>WSAT</u>	ae	500	R(1)	Cincinnati, Ohio	The Crosley Radio Corp.
<u>WTAQ</u>	ae	1000	IC	Eau Claire, Wis.	The Gillette Rubber Co.

1340 kilocycles 223.7 meters

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

1350 kilocycles 222.1 meters



KIDO	ak	1000	.....	Boise, Idaho
KWK	ae	1000	B	St. Louis, Mo.
WAWZ	ae	250	1	Zarephath, N. J.
WBNX	ae	250	1a	New York City
WCDA	ae	250	1a	New York City
WEHC	ae	500	D	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



CMBF	z	150	1365	Havana, Cuba
CMCY	ak	1000	1365	Havana, Cuba
KGIR	ah	1000	.....	Long Beach, Calif.
KGIR	ak	500	NJ	Butte, Mont.
WCSC	ae	500	.....	Charleston, S. C.
WBEI	ak	1000	C(2.2)	Syracuse, N. Y.
WGES	ae	500	1(1)	Chicago, Ill.
WTKS	agj	1000	1Z	Gary, Ind.
WORC	ak	500	.....	Vicksburg, Miss.

Ramon Bardales
M. D. Aufran
Consolidated Bdctg. Co. (R/C Los An.)
KGIR, 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)

1370 kilocycles 218.7 meters



CMGE	z	30	1375	Cardenas, Cuba
KCRC	ak	100	2(.25)	Enid, Okla.
KFBL	aj	50	3	Everett, Wash.
KFIM	zk	100	.....	Grand Forks, N. Dak.
KFTX	ae	100	.....	Fort Worth, Texas
KFTX	z	100	.....	Galveston, Texas
KGAR	ae	100	(.25)	Tucson, Arizona
KGDA	ak	100	.....	Mitchell, S. Dak.
KGFG	bk	100	2	Oklahoma City, Okla.
KGHI	zk	100	4	Santa Fe, N. Mex.
KGKI	ak	100	.....	San Angelo, Texas
KJIA	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.
KUI	ak	100	D	Walla Walla, Wash.
KUI	z	100	3	Seattle, Wash.
KWKC	z	100	.....	Kansas City, Mo.
WBIM	ak	100	7	Danville, Va.
WCBM	ae	100	Z(.25)	Baltimore, Md.
WDAS	ae	100	(.25)	Philadelphia, Pa.
WGCL	z	50	.....	Glens Falls, N. Y.
WGL	ae	100	C	Fort Wayne, Ind.
WHBD	bk	100	.....	Mount Orab, Ohio
WHBO	ak	100	.....	Memphis, Tenn.
WHDE	ak	100	(.25)	Calumet, Mich.
WIBM	ae	100	1	Jackson, Mich.
WIBK	ae	50	1Q	Detroit, Mich.
WJEQ	z	100	6P	Williamsport, Pa.
WITL	z	100	.....	Atlanta, Ga.
WITL	ae	100	(.25)	Lexington, Mass.
WIVA	ck	100	7	Lynchburg, Va.
WVBB	ak	100	.....	Tampa, Fla.
WPEB	ak	100	.....	Hattiesburg, Miss.
WODM	ae	100	D	St. Albans, Vt.
WRAC	ak	100	6	Williamsport, Pa.
WRAM	ae	100	.....	Wilmington, N. C.
WRAM	ae	100	.....	Augusta, Maine
WRJN	ae	100	.....	Racine, Wis.
WSVS	ak	50	.....	Buffalo, N. Y.
XEFZ	ae	100	.....	Coyoacan, Mexico

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)
W. E. Whitmore
Walmac Co., Inc. (Blue Bonnet Stud.)
Mission Broadcasting Co.
H. H. Hanseth, Inc. (Hall Bldg.)
First Cong. Church of Berkeley
KUJ, Inc. (Marcus Whitman Hotel)
KVL, Inc.
Wilson Duncan Broadcasting Co.
Piedmont Broadcasting Corp.
Baltimore Broadcasting Corp.
WDAS Bdctg. Sta., Inc. (Elks Hotel)
W. N. Parker and H. H. Metcalfe
F. C. Ziegler
F. P. Moler
Station WHBQ, Inc. (Hotel Claridge)
Upper Michigan Broadcasting Co.
WIBM, Inc. (Otsego 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
Manuel Zetina

KCY.S.

1380

MTRS.

217.3

DIAL

1380 kilocycles 217.3 meters



CMIC	z	150	1382	Camaguey, Cuba
KOH	ak	500	C	Reno, Nevada
KOY	ak	500	2	Pittsburgh, Pa.
KSO	z	500	Y	Clarinda, Iowa
WKBH	aj	1000	1C	LaCrosse, Wis.
WSMK	ak	200	2	Dayton, Ohio
XETB	z	125	.....	Torreón, Coah., Mex.

Feliciano Isaac
McClatchy Newspapers
KQV Bdctg. Co. (Investment Bldg.)
Iowa Broadcasting Co.
WKBH, Inc. (Radio Bldg.)
Stanley M. Krohn, Jr.
Jose A. Berumen

INDEX BY FREQUENCIES AND DIAL NUMBERS

1390 kilocycles 215.7 meters

<u>KLR</u>	ae	1000	1C
<u>ROY</u>	ae	500	C
<u>KTOA</u>	bk	1000	1
<u>WHK</u>	ae	1000	C

Little Rock, Ark.
Phoenix, Arizona
Fayetteville, Ark.
Cleveland, Ohio

Arkansas Broadcasting Co.
Nielsen Radio & Sporting Goods Co.
Southwestern Hotel Co. (Ft. Smith)
Radio Air Service Corp. (Higbee Stor e)

1400 kilocycles 214.2 meters

CMCH	ak	50	1405
CMCM	z	15	1405
CMDB	z	40	1405
KLO	ae	500	
<u>KOCW</u>	z	250	(.5)
WBAA	ak	500	1
WBEC	ae	500	2
<u>WCCD</u>	ak	500	2
WCMA	ak	500	1
WFOA	ak	500	2
WKBF	ak	500	1W
<u>WLFI</u>	neh	500	2
XEP	z	200	

Havana, Cuba
Havana, Cuba
Havana, Cuba
Salt Lake City, Utah
Chickasha, Okla.
Lafayette, Ind.
Brooklyn, N. Y.
Brooklyn, N. Y.
Culver, Ind.
Brooklyn, N. Y.
Indianapolis, Ind.
Brooklyn, N. Y.
Laredo, Mexico

Wifredo & Hum. Fontanals Sanchez
Aurelio Balino
Julio Powers
Interstate Bcg. Corp. (Hotel Bigelow
College for Women
Purdue University
Brooklyn Broadcasting Corp.
United States Broadcasting Corp.
General Broadcasting, Inc.
Paramount Broadcasting Co.
Indianapolis Broadcasting, Inc.
Voice of Brooklyn, Inc.
La Voz Latino

1410 kilocycles 212.6 meters

<u>KELY</u>	ak	500	4
<u>KGRS</u>	ae	1000	1
<u>WAAB</u>	ae	500	CH
<u>WBECM</u>	ae	500	C
WDAG	ae	1000	1
<u>WBBL</u>	ae	500	4
<u>WHIS</u>	ak	250	2
<u>WODX</u>	ea	500	3CU
<u>WRBX</u>	ae	250	2
<u>WSFA</u>	ak	500	3C

Rockford, Ill.
Amarillo, Texas
Boston, Mass.
Bay City, Mich.
Amarillo, Texas
Sheboygan, Wis.
Bluefield, W. Va.
Mobile, Ala.
Roanoke, Va.
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

<u>KABC</u>	ak	100	
<u>KBPS</u>	aj	100	4
<u>KCMC</u>	ak	100	
<u>KEFZ</u>	ak	100	
<u>KGEE</u>	ak	100	
<u>KGGC</u>	ak	100	5
<u>KGIW</u>	ak	100	1
<u>KGIJ</u>	ak	100	
<u>KGKX</u>	z	100	
<u>KICK</u>	z	100	Y
<u>KIDW</u>	ak	100	I
<u>KORE</u>	neh	100	
<u>KUMA</u>	ak	100	
<u>KWCR</u>	ae	100	B(.25)
<u>KXL</u>	ae	100	4
<u>WAGM</u>	ae	100	
<u>WAMC</u>	ae	100	
<u>WEHS</u>	ak	100	a
<u>WELL</u>	z	50	
<u>WENC</u>	ak	100	D
<u>WERE</u>	ae	100	
<u>WHDL</u>	neh	100	D
<u>WHFC</u>	ae	100	a
<u>WILM</u>	ae	100	D
<u>WIBO</u>	z	100	D
<u>WJMS</u>	ak	100	
<u>WKBI</u>	ak	100	a
<u>WKEA</u>	z	100	P2
<u>WLBF</u>	ae	100	
<u>WNAS</u>	ak	100	CH
<u>WNBH</u>	ae	100	(.25)
<u>WMBH</u>	ak	100	(.25)
<u>WPAD</u>	ak	100	
<u>WSPA</u>	neh	100	(.25)
<u>WTBO</u>	ae	100	(.25)

San Antonio, Texas
Portland, Ore.
Texarkana, Ark.
Fond du Lac, Wis.
Shawnee, Okla.
San Francisco, Calif.
Trinidad, Colo.
Las Vegas, Nevada
Lewiston, Idaho
Red Oak, Iowa
Lamar, Colo.
Yuma, Arizona
Cedar Rapids, Iowa
Portland, Ore.
Presque Isle, Maine
Anniston, Ala
Cicero, Ill.
Battle Creek, Mich.
Americus, Ga.
Erie, Pa.
Tupper Lake, N. Y.
Cicero, Ill.
Wilmington, Del.
New Orleans, La.
Ironwood, Mich.
Cicero, Ill.
Hazleton, Pa.
Kansas City, Kans.
Springfield, Mass.
Detroit, Mich.
Joplin, Mo.
Paducah, Ky.
Spartanburg, S. C.
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.
Southwest 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.)
WEHS, Inc.
Enquirer-News Co.
Americus Broadcast Co.
Erie Bdctg. Corp. (Lawrence Hotel)
Tupper Lake Broadcasting Co., Inc.
WHFC, Inc.
Delaware Broadcasting Co.
Valdemar Jensen
WJMS, Inc. (St. James Hotel)
WKBI, Inc.
Herman G. Halsted
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

<u>KECA</u>	ah	1000	N
<u>KGNE</u>	ak	500	D
<u>WEAK</u>	ak	500	1(1)

Los Angeles, Calif.
North Platte, Neb.
Harrisburg, Pa.

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

<u>WCAH</u>	ae	500	CA	Columbus, Ohio
<u>WFEA</u>	ae	500	CH	Manchester, N. H.
<u>WHEC</u>	ae	500	CA	Rochester, N. Y.
<u>WHP</u>	ak	500	1CA(1)	Harrisburg, Pa.
<u>WNR</u>	ae	500	.....	Memphis, Tenn.
<u>WOKO</u>	ae	500	CA	Albany, N. Y.

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

1440 kilocycles 208.2 meters

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<u>CMBL</u>	ak	20	1445	Havana, Cuba
<u>CMBN</u>	ak	30	1445	Havana, Cuba
<u>KDEN</u>	ak	500	Casper, Wyo.
<u>KLS</u>	ae	250	D	Oakland, Calif.
<u>KXYZ</u>	ak	250	.....	Houston, Texas
<u>WBIG</u>	ae	500	C(1)	Greensboro, N. C.
<u>WCHA</u>	ah	250	.....	Allentown, Pa.
<u>WMBD</u>	ae	500	3C(1)	Peoria, Ill.
<u>WSAN</u>	z	250	a	Allentown, Pa.
<u>WTAD</u>	ak	500	3	Quincy, Ill.

Julio C. Hidalgo
Armando Romeu Marrero
Donald L. Hathaway
Warner Bros.
Harris County Broadcast 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

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<u>KTBS</u>	ae	1000	N	Shreveport, La.
<u>WBMS</u>	ak	250	1	Hackensack, N. J.
<u>WGAR</u>	ak	500	B	Cleveland, Ohio
<u>WHOM</u>	ae	250	1	Jersey City, N. J.
<u>WNI</u>	ak	250	1	Newark, N. J.
<u>WSAR</u>	ae	250	.....	Fall River, Mass.
<u>WTFI</u>	ak	500	.....	Athens, Ga.

Tri-State Bdctg. System, Inc.
WBMS Broadcasting Corp.
WGAR Broadcasting Co., Inc.
New Jersey Broadcasting Corp.
The Radio Investment Co., Inc.
Doughty & Welch Electric Co., Inc.
Liberty Broadcasting Co.

1460 kilocycles 205.4 meters

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<u>KSTP</u>	ae	10000	N	St. Paul, Minn.
<u>WISY</u>	ck	10000	C	Washington, D. C.

National Battery Broadcasting Co.
Old Dominion Broadcasting Co.

1470 kilocycles 204.0 meters

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<u>KGA</u>	ak	5000	B	Spokane, Wash.
<u>WLAG</u>	ae	5000	C	Nashville, Tenn.

Northwest Broadcasting System
Life & Casualty Insurance Co.

1480 kilocycles 202.6 meters

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<u>CMBK</u>	z	15	1485	Havana, Cuba
<u>CMBR</u>	z	40	Havana, Cuba
<u>KOMA</u>	ak	5000	C	Oklahoma City, Okla.
<u>WKBY</u>	ae	5000	C	Buffalo, N. Y.

Alberto Alvarez
Tomas Basal
National Radio Mfg. Co.
Buffalo Broadcasting Corp.

1490 kilocycles 201.2 meters

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<u>WCKY</u>	ae	5000	N	Covington, Ky.
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L. B. Wilson, Inc. (Mabley & Carew)

1500 kilocycles 199.9 meters

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<u>KBD</u>	ak	100	CT	Santa Barbara, Calif.
<u>KCEI</u>	aj	100	(.25)	Corpus Christi, Texas
<u>KCFX</u>	ak	50	Moorhead, Minn.
<u>KGIC</u>	ak	100	.....	Grant City, Mo.
<u>KGRB</u>	dk	100	.....	Tyler, Texas
<u>KGRB</u>	ck	100	.....	Scottsbluff, Neb.
<u>KNOW</u>	ak	100	.....	Austin, Texas
<u>KPDM</u>	z	50	.....	Prescott, Arizona
<u>KPO</u>	aj	50	.....	Wenatchee, Wash.
<u>KREG</u>	ak	100	.....	Santa Ana, Calif.
<u>KXO</u>	z	100	.....	El Centro, Calif.
<u>WDFY</u>	ak	100	.....	Rome, Ga.
<u>WHEF</u>	ak	100	(.25)	Kosciusko, Miss.
<u>WKBY</u>	z	100	.....	Connerville, Ind.
<u>WKBZ</u>	ak	100	.....	Ludington, Mich.
<u>WLGO</u>	ae	100	(.25)	Boston, Mass.
<u>WMBQ</u>	ae	100	1	Brooklyn, N. Y.
<u>WMIL</u>	ak	100	1	Brooklyn, N. Y.
<u>WMPC</u>	ak	100	.....	Lapeer, Mich.
<u>WNBF</u>	ae	100	.....	Binghamton, N. Y.
<u>WOPJ</u>	ae	100	.....	Bristol, Tenn.
<u>WPEN</u>	ae	100	(.25)	Philadelphia, Pa.
<u>WRDW</u>	ae	100	.....	Augusta, Ga.
<u>WSYE</u>	ae	100	.....	Rutland, Vt.
<u>WVRL</u>	ak	100	1	Woodside, N. Y.
<u>WWSW</u>	ae	100	X(.25)	Pittsburgh, Pa.

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 Bdctg. Co. (Driskill Hotel)
A. P. Miller
Westcoast Broadcasting Co.
J. S. Edwards
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 Faske
First Methodist Protestant Church
Howitt-Wood Radio Co., Inc.
Radiophone Bdctg. Station WOPJ
Wm. Penn Broadcasting Co.
Musicove, Inc. (Relays WLW)
Philip Weiss Music Co.
Long Island Broadcasting Corp.
Walker & Downing Radio Corp.

CKYS.

1500

MTRS.

199.9

DIAL

INDEX BY LOCATIONS WITH MAP KEY

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

ALABAMA

	Watts		Keys.
<u>Anniston</u> O-21 tr	100	WAMC	1420
<u>Birmingham</u> O-21	5000	WAPI N	1140
	500	WBRC C	930
	100	WKBC	1310
<u>Gadsden</u> O-21	100	WJBY	1210
<u>Huntsville</u> N-21 c	100	WBHS	1200
<u>Mobile</u> Q-20	500	WODX C	1410
<u>Montgomery</u> P-21	500	WSEA C	1410
<u>Troy</u> P-21 rc	100	WHET	1210

ALASKA

<u>Anchorage</u>	250	KFQD	1230
<u>Ketchikan</u>	500	KGBU	900

ARIZONA

<u>Jerome</u> M-6	100	KCRI	1310
<u>Phoenix</u> N-6	500	KOY C	1390
	500	KTAB N	620
<u>Prescott</u> M-6	100	KPIM	1500
<u>Tucson</u> O-7	100	KGAR	1370
	500	KVOA	1260
<u>Yuma</u> O-5 tl	100	KUMA	1420

ARKANSAS

<u>Blytheville</u> M-19	50	KLCN	1290
<u>Fayetteville</u> M-16	1000	KUOA	1390
<u>Fort Smith</u> N-16	100	KFPW	1210
<u>Hot Springs</u> N-17	10000	KTHS N	1040
<u>Little Rock</u> N-17	250	KARK	890
	100	KGHI	1200
	1000	KLRA C	1390
<u>Paragould</u> M-18	100	KBTM	1200
<u>Texarkana</u> O-17 bl	100	KCMC	1420

CALIFORNIA

<u>Bakersfield</u> L-2 br	100	KERN	C 1200
<u>Berkeley</u> J-2	100	KRE	1370
<u>Beverly Hills</u> M-3 bl	500	KMPC	710
<u>Burbank</u> M-3	500	KELW	780
<u>El Centro</u> N-4	100	KXO	1500
<u>Eureka</u> H-1 tc	100	KIEM	1210
<u>Fresno</u> K-2	500	KMJ C	580
<u>Glendale</u> M-3	100	KIEV	850
<u>Hollywood</u> M-3	500	KMTR	570
	5000	KNX	1050
<u>Long Beach</u> M-3	1000	KFOX C	1250
	1000	KGER	1360
<u>Los Angeles</u> M-3	1000	KELA N	1430
	1000	KFAC	1300
	50000	KFI N	640
	500	KESG	1120
	250	KFVD	1000
	1000	KFWB	950
	100	KGEJ	1200
	1000	KHT C	900
	500	KRKD	1120
	500	KIM	780
<u>Oakland</u> J-1	250	KLS	1440
	500	KLX	880
	500	KROW	930
<u>Pasadena</u> M-3	50	KPPC	1210
<u>Sacramento</u> J-2	100	KFBK C	1310
<u>San Bernardino</u> M-3	100	KFXM	1210
<u>San Diego</u> N-3	500	KESD N	600
	1000	KGB C	1330
<u>San Francisco</u> J-1	1000	KERC C	610
	500	KFWI	930
	100	KGGC	1420
	7500	KGO N	790
	100	KHS	1070
	5000	KPO N	680
	1000	KTAB	560
	1000	KVA N	1230

	Watts		Keys.
<u>San Jose</u> J-1	500	KOW	1010
<u>Santa Ana</u> M-3	100	KREG	1500
<u>Santa Barbara</u> M-2	100	KDB C	1500
<u>Stockton</u> J-2	250	KGDM	1100
	100	KWG C	1200

COLORADO

<u>Colorado Springs</u> K-11	1000	KVOR C	1270
<u>Denver</u> K-11	500	KEEL	920
	500	KFXF	920
	1000	KLZ C	560
	12500	KQA N	830
	500	KPOF	880
<u>Fort Morgan</u> J-11	100	KGEW	1200
<u>Grand Junction</u> K-9 lc	100	KFXJ	1310
<u>Greeley</u> J-11	500	KFKA	880
<u>Lamar</u> L-12 lc	100	KIDW	1420
<u>Pueblo</u> L-11	250	KGHE	1320
<u>Trinidad</u> L-11	100	KGIW	1420
<u>Yuma</u> J-12	100	KGEK	1200

CONNECTICUT

<u>Bridgeport</u> H-27	250	WICC C	600
<u>Hartford</u> H-27	500	WDRG C	1330
	5000	WTIC R	1060
<u>Storrs</u> H-28	250	WCAC	600

DELAWARE

<u>Wilmington</u> J-26	250	WDEL	1120
	100	WILM	1420

DISTRICT OF COLUMBIA

<u>Washington</u> J-26	10000	WISV C	1460
	250	WMAJ C	630
	500	WRC N	950
	100	WOL	1310

FLORIDA

<u>Clearwater</u> R-24	1000	WFLA N	620
<u>Gainesville</u> Q-24	5000	WROF C	830
<u>Jacksonville</u> Q-24	1000	WJAX N	900
<u>Miami</u> T-25	1000	WIOD N	1300
	1000	WQAM C	560
<u>Orlando</u> R-24	250	WDBO C	580
<u>Pensacola</u> Q-21	500	WCOA	1340
<u>St. Petersburg</u> S-24	1000	WSUN N	620
<u>Tampa</u> R-24	1000	WDAE C	1220
	100	WMBR	1370

GEORGIA

<u>Americus</u> P-22 c	100	WENC	1420
<u>Athens</u> N-23 bc	500	WTFI	1450
<u>Atlanta</u> O-22	250	WGST C	890
	100	WTIL	1370
	5000	WSB N	740
<u>Augusta</u> O-23	100	WRDW	1500
<u>Columbus</u> O-22	100	WRBL	1200
<u>Macon</u> O-23	500	WMAZ	1180
<u>Rome</u> N-22	100	WFDV	1500
<u>Savannah</u> O-24	500	WTOX C	1260
<u>Thomasville</u> Q-22	100	WQDX	1210

HAWAII

<u>Honolulu</u>	250	KGMB C	1320
	1000	KGU N	750

IDAHO

<u>Boise</u> G-5	1000	KIDO	1350
<u>Idaho Falls</u> G-7	250	KID	1320
<u>Nampa</u> G-5	100	KFXD	1200
<u>Pocatello</u> H-7	250	KSEI	890
<u>Lewiston</u> E-5 rc	100	KGKX	1420
<u>Twin Falls</u> H-6	500	KTEL	1240

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	WBBM C	770
	1500	WCFL R	970
	100	WCRW	1210
	100	WEDC	1210
	50000	WENR N	870
	500	WGES	1360
	25000	WCN C	720
	1000	WIBO	560
	20000	WIID	1130
	50000	WLS N	870
	5000	WMBQ N	670
	5000	WMB	1080
	500	WBC	560
	100	WIBC	1210
	100	WEBS	1420
	100	WHQC	1420
	100	WBBI	1420
	100	WIBL	1200
	100	WKBS	1310
	100	WEBC	1210
	100	WCLS	1310
	100	WKBB	1310
	100	WIBC	1200
	500	WMBD C	1440
	500	WTAD	1440
	500	KELY	1410
	100	WHBE	1210
	100	WCBS	1210
	100	WTAX	1210
	100	WDZ	1070
	250	WILL	890
	5000	WCBD	1080

INDIANA

Anderson J-21	100	WHBU	1210
Connersville K-21	100	WKVB	1500
Culver I-20	500	WCMA	1400
Elkhart I-21 bc	50	WTRC	1310
Evansville L-20	500	WCBF	630
Fort Wayne J-21	100	WCL C	1370
	10000	WOWO C	1160
Gary J-20	1000	WTKS	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 J-17	5000	WQI	640
Boone I-17	100	KFGO	1310
Cedar Rapids I-18	100	KVCR B	1420
Clarinda J-16	500	KSO	1380
Council Bluffs J-16	1000	KOIL B	1260
Davenport J-18	5000	WOC R	1000
Decorah H-18	100	KGCA	1270
	100	KWLC	1270
Des Moines J-17	5000	WHO R	1000
Iowa City I-18	500	WSTU	880
Marshalltown I-17	100	KEIB	1200
Ottumwa J-17	100	WLAS	1310
Red Oak J-16	100	KICK	1420
Shenandoah J-16	500	KENE	890
	500	KMA	930
Sioux City I-15	1000	KSTC C	1330
Waterloo I-17	500	WMI C	600

KANSAS

	Watts		Kcys.
Abilene K-15 bl	5000	KFBI	1050
Coffeyville M-15 tr	500	KGGF	1010
Dodge City L-13	100	KGNO	1210
Kansas City K-16	100	WLB	1420
Lawrence J-16	500	KFRU	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	WFLW 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
	100	WABZ	1200
New Orleans R-19	1000	WDSU C	1250
	100	WBO	1420
	100	WIBW	1200
	500	WSMB N	1320
	5000	WNL	850
Shreveport P-17	100	KRMD	1310
	1000	KLBS N	1450
	100	KWEA	1210
	10000	KWKH	850

MAINE

Augusta F-28	100	WRDO	1370
Bangor F-29	100	WABI	1200
	500	WLBZ 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	WAB	C 1410
	25000	WBZ B	990
	1000	WEEL R	590
	1000	WHDH	830
	100	WLOE	1500
	1000	WNAO C	1230
Fall River H-28	250	WSAR	1450
Lexington G-28	100	WLEY	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	WTAC R	580

MICHIGAN

Battle Creek I-21	50	WELL	1420
Bay City H-22	500	WBCM C	1410
Calumet E-19	100	WHDE	1370
Detroit H-22	50	WIBK	1370
	10000	WTR B	750
	100	WMBC	1420
	1000	WWJ R	920
	1000	WXYZ	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.
<u>Flint H-22</u>	100	<u>WEDE</u>	1310
<u>Grand Rapids H-21</u>	500	<u>WASH</u>	1270
	500	<u>WOOD</u>	1270
<u>Ironwood F-18 rc</u>	100	<u>WINS</u>	1420
<u>Jackson J-21</u>	100	<u>WTBM</u>	1370
<u>Kalamazoo I-21 tl</u>	1000	<u>WRZO</u>	590
<u>Lapeer H-27</u>	100	<u>WMPD</u>	1500
<u>Ludington H-20</u>	100	<u>WKBY</u>	1500
<u>Marquette F-19</u>	100	<u>WBEO</u>	1310
<u>Royal Oak H-22</u>	50	<u>WEXT</u>	1310

MINNESOTA

<u>Fergus Falls F-15</u>	100	<u>KGDE</u>	1200
<u>Minneapolis G-17</u>	5000	<u>WCCO</u>	C 810
	1000	<u>WDGY</u>	1180
	1000	<u>WLPB</u>	1250
	1000	<u>WRBM</u>	1250
<u>Moorhead F-15</u>	50	<u>KGDK</u>	1500
<u>North St. Paul G-17</u>	1000	<u>KFMY</u>	1250
	1000	<u>WCAJ</u>	1250
<u>St. Paul G-17</u>	10000	<u>KSTP</u>	N 1460

MISSISSIPPI

<u>Greenville O-18</u>	100	<u>WKEL</u>	1210
<u>Gulfport Q-19</u>	100	<u>WGCM</u>	1210
<u>Hattiesburg Q-19</u>	100	<u>WPBB</u>	1370
<u>Jackson P-19</u>	1000	<u>WIDX</u>	N 1270
<u>Kosciusko O-19 bc</u>	100	<u>WHEF</u>	1500
<u>Laurel P-19 br</u>	100	<u>WTSL</u>	1310
<u>Meridian P-20</u>	500	<u>WCOC</u>	880
<u>Vicksburg P-18</u>	500	<u>WOBC</u>	1360

MISSOURI

<u>Ca. Girardeau L-19</u>	100	<u>KFVS</u>	1210
<u>Columbia K-17</u>	500	<u>KFRU</u>	630
<u>Grant City J-16</u>	100	<u>KGJZ</u>	1500
<u>Jefferson City L-17</u>	500	<u>WOS</u>	630
<u>Joplin M-16</u>	100	<u>WMBL</u>	1420
<u>Kansas City K-16</u>	1000	<u>KMBC</u>	C 950
	100	<u>KWKC</u>	1370
	1000	<u>WDAS</u>	R 610
	500	<u>WHB</u>	860
	1000	<u>WOOD</u>	1300
<u>St. Joseph K-16</u>	2500	<u>KFEQ</u>	680
<u>St. Louis J-18</u>	500	<u>KTUD</u>	550
	100	<u>KFWF</u>	1200
	50000	<u>KMOX</u>	C 1090
	500	<u>KSD</u>	B 550
	1000	<u>KWLX</u>	R 1350
	1000	<u>WFL</u>	760
	100	<u>WTM</u>	1200
<u>Springfield M-17</u>	100	<u>KGBX</u>	1310

MONTANA

<u>Billings F-9</u>	1000	<u>KGHL</u>	N 950
<u>Butte F-7</u>	500	<u>KGIR</u>	N 1360
<u>Great Falls E-8</u>	1000	<u>KPBB</u>	1280
<u>Kalispell D-7</u>	100	<u>KGZB</u>	1310
<u>Missoula E-7</u>	100	<u>KGVO</u>	1200
<u>Wolf Point E-11</u>	100	<u>KGCV</u>	1310

NEBRASKA

<u>Clay Center J-14</u>	1000	<u>KMMI</u>	740
<u>Kearney J-14 bc</u>	100	<u>KQEW</u>	1310
<u>Lincoln J-15</u>	5000	<u>KFAB</u>	C 770
	100	<u>KFOR</u>	1210
	500	<u>WCAJ</u>	590
<u>Norfolk J-15</u>	1000	<u>WJAG</u>	1060
<u>North Platte J-13</u>	500	<u>KANF</u>	1430
<u>Omaha J-15</u>	500	<u>WAWW</u>	660
	1000	<u>WOW</u>	R 590
<u>Scottsbluff J-11</u>	100	<u>KGRY</u>	1500
<u>York J-15</u>	500	<u>KGBZ</u>	930

NEVADA

<u>Las Vegas L-5</u>	100	<u>KGIX</u>	1420
<u>Reno I-3</u>	500	<u>KOH</u>	C 1380

NEW HAMPSHIRE

<u>Laconia G-28 lc</u>	100	<u>WKAV</u>	C 1310
<u>Manchester G-28</u>	500	<u>WFEA</u>	C 1430
<u>Portsmouth G-28 tc</u>	250	<u>WHBB</u>	740

NEW JERSEY

<u>Asbury Park I-27</u>	500	<u>WCAP</u>	C 1280
<u>Atlantic City J-27</u>	5000	<u>WPG</u>	C 1100
<u>Camden I-26</u>	500	<u>WCAM</u>	1280
<u>Hackensack I-27</u>	250	<u>WBMS</u>	1450
<u>Jersey City I-27</u>	300	<u>WAAT</u>	940
	250	<u>WHOM</u>	1450
<u>Newark I-27</u>	1000	<u>WAAM</u>	1250
	250	<u>WGCP</u>	1250
	250	<u>WNI</u>	1450
	5000	<u>WOR</u>	710
<u>Paterson I-27</u>	1000	<u>WODA</u>	1250
<u>Red Bank I-27</u>	100	<u>WBIJ</u>	1210
<u>Trenton I-26</u>	500	<u>WOAX</u>	1280
<u>Zarchoath I-27</u>	250	<u>WAWZ</u>	1350

NEW MEXICO

<u>Albuquerque N-7</u>	250	<u>KGGM</u>	1230
	10000	<u>KOB</u>	1180
<u>Clovis O-11 tr</u>	100	<u>KICA</u>	1370
<u>Santa Fe M-10</u>	100	<u>KGFL</u>	1370

NEW YORK

<u>Albany G-27 bl</u>	500	<u>WOKO</u>	C 1430
<u>Auburn H-25</u>	100	<u>WMBO</u>	1310
<u>Binghamton H-26</u>	100	<u>WMBF</u>	1500
<u>Brooklyn I-27</u>	500	<u>WBBC</u>	1400
	1000	<u>WBBS</u>	1300
	500	<u>WCGU</u>	1400
	500	<u>WFOJ</u>	1400
	500	<u>WLTH</u>	1400
	100	<u>WMBO</u>	1500
	100	<u>WMIL</u>	1500
<u>Buffalo H-24</u>	1000	<u>WBEN</u>	R 900
	100	<u>WBR</u>	1310
	1000	<u>WGR</u>	C 550
	5000	<u>WRBW</u>	C 1480
	50	<u>WSVS</u>	1370
	500	<u>WCAD</u>	1220
<u>Canton F-26</u>	50		1210
<u>Chester Twp.</u>	100	<u>WGBB</u>	1210
<u>Essexport I-27</u>	50	<u>WGCL</u>	1370
<u>Glens Falls G-27</u>	1000	<u>WESG</u>	1270
<u>Ithaca H-25</u>	100	<u>WMRJ</u>	1210
<u>Jamaica H-27</u>	50	<u>WOJL</u>	1210
<u>Jamestown H-24</u>	50000	<u>WABC</u>	C 860
<u>New York City I-27</u>	250	<u>WBXX</u>	1350
	50000	<u>WBOQ</u>	860
	250	<u>WCDA</u>	1350
	50000	<u>WEAF</u>	R 660
	500	<u>WVD</u>	1300
	1000	<u>WEAB</u>	1300
	500	<u>WINS</u>	1180
	250	<u>WHN</u>	1010
	30000	<u>WLZ</u>	B 760
	5000	<u>WLWL</u>	1100
	500	<u>WMCA</u>	570
	250	<u>WMSG</u>	1350
	500	<u>WNYC</u>	570
	1000	<u>WOV</u>	1130
	250	<u>WPAP</u>	1010
	500	<u>WPCB</u>	810
	250	<u>WQAO</u>	1010
	250	<u>WRNY</u>	1010
<u>Rochester G-25</u>	5000	<u>WHAM</u>	B 1150
	500	<u>WHBC</u>	C 1430

INDEX BY LOCATIONS WITH MAP KEY

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

	Watts		Keys.
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	WWRL	1500
White Plains H-27 bl	100	WFAS	1210

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	WBIG	C 1440
Raleigh M-25	1000	WPTF	N 680
Wilmington N-26	100	WRAM	C 1370
Winston-Salem M-24	100	WSJS	C 1310

NORTH DAKOTA

Bismarck F-13	1000	KEYR	N 550
Devils Lake E-14	100	KDLR	1210
Fargo F-15	1000	WDAY	N 940
Grand Forks E-15	100	KEIM	1370
Mandan F-13	250	KCGU	1240
Minot F-13	250	KDPM	1240

OHIO

Akron I-23	1000	WADC	C 1320
	100	WTV	1210
Canton I-23	10	WHBC	1200
Cincinnati K-22	100	WEFE	1200
	1000	WKRC	C 550
	50000	WLW	B 700
	500	WSAT	R 1330
Cleveland I-23	500	WGAR	B 1450
	1000	WHK	C 1390
	500	WTAM	R 610
Columbus J-22	50000	WTAU	R 1070
	500	WCAH	C 640
	750	WEAO	570
	100	WSEN	1210
Dayton J-22	200	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	KNAD	1010
Oklahoma N-15	100	KPEX	1310
	100	KCEG	1370
	5000	KOMA	N 1480
	1000	WKY	900
Ponca City M-15	100	WBEZ	1200
Shawnee N-15	100	KCFE	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	KFII	1210
Marshfield F-1	100	KOOS	1370
Medford G-2	100	KMED	1310

	Watts		Keys.
Portland E-3	500	KALE	C 1300
	5000	KEX	N 1180
	100	KCBS	1420
	500	KETB	1300
	1000	KGW	N 620
	1000	KOIN	C 940
	500	KWTI	1060
	100	KXL	1420

PENNSYLVANIA

Allentown I-26	250	WCBA	1440
	250	WSAN	1440
Altoona I-25	100	WFBG	1310
Carbondale H-26	10	WNBW	1200
Eric H-24	100	WERE	1420
	500	WLBY	C 1260
	25	WIBC	930
Glenside I-26 rc	100	WSAJ	1310
Grove City I-24	500	WBAK	1430
Harrisburg I-25	100	WCOB	1200
	500	WTP	C 1430
	100	WKEA	1420
Hazleton I-26 lc	100	WJAC	1310
Johstown J-24	100	WGAL	1310
Lancaster I-26	100	WKIC	1200
	100	WJBU	1210
Lewisburg I-26	50000	WCAU	C 1170
Philadelphia I-26	100	WDAS	1370
	500	WEAN	C 610
	500	WEI	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	KOV	1380
	1000	WCAE	R 1220
	1000	WIAS	C 1290
	100	WWSV	1500
Reading I-26	1000	WEEU	830
	100	WRAV	1310
Scranton H-26	250	WGBI	880
	250	WQAN	880
State College I-25	500	WPSC	1230
Washington J-24	100	WNBQ	1200
Wilkes-Barre I-26	100	WBAX	1210
	100	WBRE	1310
Williamsport I-25	100	WRAK	1370
	100	WJEO	1370
York I-25 tr	1000	WORK	1000

PHILIPPINES

Cebu	500	KZRC	937.5
Manila	1000	KZKA	1110
	50000	KZRM	618.5

PORTO RICO

San Juan W-34	1000	WKAQ	1240
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RHODE ISLAND

Providence H-28	250	WEAN	C 780
	250	WJAR	R 890
	100	WPAV	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
<u>Brookings</u> H-15	500	<u>KFDY</u>	550
<u>Huron</u> H-14	100	<u>KGDY</u>	1200
<u>Mitchell</u> H-14	100	<u>KGDA</u>	1370
<u>Pierre</u> G-13	200	<u>KGFX</u>	630
<u>Rapid City</u> H-12	100	<u>WCAT</u>	1200
<u>Sioux Falls</u> H-15	1000	<u>KSOQ</u>	1110
<u>Vermillion</u> I-15	500	<u>KUSD</u>	890
<u>Watertown</u> G-15	100	<u>KGCR</u>	1210
<u>Yankton</u> I-15	1000	<u>WNAX</u>	C 570

TENNESSEE		Watts	Keys
<u>Bristol</u> L-23	100	<u>WOPI</u>	1500
<u>Chattanooga</u> N-21	1000	<u>WDOD</u>	C 1280
<u>Jackson</u> M-19 br	100	<u>WTJS</u>	1310
<u>Knoxville</u> M-22	1000	<u>WNOX</u>	C 560
	100	<u>WROL</u>	1310
<u>Memphis</u> N-19	100	<u>WHBQ</u>	1370
	500	<u>WMC</u>	N 780
	500	<u>WNBR</u>	1430
	500	<u>WREC</u>	C 600
<u>Nashville</u> M-21	5000	<u>WLAC</u>	C 1470
	50000	<u>WSM</u>	N 650
<u>Springfield</u> M-20	100	<u>WSIX</u>	1210

TEXAS		Watts	Keys
<u>Amarillo</u> N-12	1000	<u>KGRS</u>	1410
	1000	<u>WDAG</u>	1410
<u>Austin</u> Q-14	100	<u>KNOW</u>	1500
<u>Beaumont</u> R-17	500	<u>KEDM</u>	560
<u>Brownsville</u> U-15	500	<u>KWVG</u>	1260
<u>College Sta.</u> Q-15	500	<u>WTAW</u>	1120
<u>Corpus Christi</u> S-14	100	<u>KCFE</u>	1500
<u>Dallas</u> P-15	10000	<u>KRLD</u>	1040
	50000	<u>WFAA</u>	C 800
	500	<u>WRR</u>	C 1280
<u>Dublin</u> P-14	100	<u>KFPL</u>	1310
<u>El Paso</u> P-9	100	<u>KTSM</u>	1310
<u>Fort Worth</u> P-15	100	<u>WDMH</u>	1310
	100	<u>KFJZ</u>	1370
	1000	<u>KTVB</u>	1240
	10000	<u>WBAD</u>	N 800
<u>Galveston</u> R-16	100	<u>KELX</u>	1370
	500	<u>KFUL</u>	1290
<u>Greenville</u> Q-15	15	<u>KFPM</u>	1310
<u>Harlingen</u> T-14	500	<u>KRCV</u>	1260
<u>Houston</u> R-16	1000	<u>KPRC</u>	N 920
	500	<u>KTRH</u>	C 1120
	250	<u>KXYZ</u>	1440
<u>Lubbock</u> Q-12 tr	100	<u>KFYD</u>	1310
<u>San Angelo</u> Q-13	100	<u>KGKT</u>	1370
<u>San Antonio</u> R-14	100	<u>KABC</u>	1420
	100	<u>KMAC</u>	1370
	1000	<u>KONO</u>	1370
	50000	<u>KTSA</u>	C 1290
	100	<u>KQAJ</u>	N 1190
<u>Tyler</u> P-16 rc	100	<u>KGKB</u>	1500
<u>Waco</u> Q-15	1000	<u>WACO</u>	C 1240
<u>Wichita Falls</u> O-14	250	<u>KGKO</u>	570

UTAH		Watts	Keys
<u>Salt Lake City</u> I-7	2500	<u>KDYL</u>	N 1290
	500	<u>KLO</u>	1400
	5000	<u>KSL</u>	C 1130

VERMONT		Watts	Keys
<u>Burlington</u> F-27	100	<u>WCAX</u>	1200
<u>Rutland</u> G-27	100	<u>WSYB</u>	1500
<u>St. Albans</u> F-27	100	<u>WODM</u>	1370
<u>Springfield</u> G-27	250	<u>WNBX</u>	1260
<u>Waterbury</u> F-27 c	500	<u>WDEV</u>	550

VIRGINIA		Watts	Keys
<u>Arlington</u> J-25	1000	<u>NAA</u>	690
<u>Danville</u> L-25	100	<u>WBTM</u>	1370
<u>Emory</u> I-23	500	<u>WBHC</u>	1350
<u>Lynchburg</u> L-25	100	<u>WLVA</u>	1370
<u>Newport News</u> L-26	100	<u>WGH</u>	1310
<u>Norfolk</u> L-26	500	<u>WPHR</u>	C 780
<u>Petersburg</u> L-26	100	<u>WPAR</u>	1200
<u>Portsmouth</u> L-26 tc	500	<u>WPOP</u>	780
<u>Richmond</u> K-26	100	<u>WBBL</u>	1210
	100	<u>WMBG</u>	C 1210
	5000	<u>WRVA</u>	C 1110
<u>Roanoke</u> L-24	250	<u>WDBJ</u>	C 930
	250	<u>WRBX</u>	1410

WASHINGTON		Watts	Keys
<u>Aberdeen</u> D-2	100	<u>KXRO</u>	1310
<u>Bellingham</u> C-3	100	<u>KVOS</u>	1200
<u>Everett</u> C-3	50	<u>KFBL</u>	1370
<u>Olympia</u> D-3 tl	100	<u>KGY</u>	1210
<u>Pullman</u> E-5	1000	<u>KWSC</u>	1220
<u>Seattle</u> C-3	5000	<u>KJR</u>	C 970
	1000	<u>KOL</u>	C 1270
	1000	<u>KOMO</u>	C 920
	100	<u>KPCB</u>	650
	100	<u>KRSC</u>	1120
	1000	<u>KTW</u>	1220
	100	<u>KVL</u>	1370
	250	<u>KXA</u>	760
<u>Spokane</u> D-5	100	<u>KFIQ</u>	1120
	1000	<u>KFPY</u>	C 1340
	5000	<u>KGA</u>	B 1470
	1000	<u>KHO</u>	N 590
<u>Tacoma</u> D-3	250	<u>KMO</u>	1330
	500	<u>KVI</u>	C 570
<u>Walla Walla</u> E-5	100	<u>KUJ</u>	1370
<u>Wenatche</u> D-4	50	<u>KPO</u>	1500
<u>Yakima</u> D-4	100	<u>KIT</u>	1310

WEST VIRGINIA		Watts	Keys
<u>Bluefield</u> L-24	250	<u>WBIS</u>	1410
<u>Charleston</u> K-23	250	<u>WOBV</u>	580
<u>Fairmont</u> J-24	250	<u>WMVN</u>	890
<u>Huntington</u> K-23	250	<u>WSAZ</u>	580
<u>Wheeling</u> J-24	5000	<u>WWVA</u>	C 1160

WISCONSIN		Watts	Keys
<u>Eau Claire</u> G-18	1000	<u>WTAQ</u>	C 1330
<u>Fond du Lac</u> H-19	100	<u>KFJZ</u>	1420
<u>Green Bay</u> G-19	100	<u>WHBY</u>	1200
<u>Janesville</u> I-19	100	<u>WKLO</u>	1200
<u>La Crosse</u> H-18	1000	<u>WKBH</u>	C 1380
<u>Madison</u> H-19	1000	<u>WHA</u>	940
	500	<u>WIBA</u>	N 1280
<u>Manitowoc</u> H-20	100	<u>WOMT</u>	1210
<u>Milwaukee</u> H-19	250	<u>WHAD</u>	C 1120
	250	<u>WISN</u>	C 1120
	1000	<u>WTMJ</u>	N 620
<u>Poynette</u> H-19	100	<u>WIBU</u>	1210
<u>Racine</u> T-20	100	<u>WRJN</u>	1370
<u>Sheboygan</u> H-20	500	<u>WHBL</u>	1410
<u>Stevens Point</u> G-19	2000	<u>WLBL</u>	900
<u>Superior</u> F-17	1000	<u>WEBC</u>	N 1290

WYOMING		Watts	Keys
<u>Casper</u> H-10	500	<u>KDFN</u>	1440

CANADA

ALBERTA		Watts	Keys
<u>Calgary</u> B-7	500	<u>CFAC</u>	690
	10000	<u>CFCN</u>	985
	500	<u>CICI</u>	690

INDEX BY LOCATIONS WITH MAP KEY

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

	Watts		Keys		Watts		Keys
<u>Edmonton A-8</u>	250	CHMA	580	<u>Quebec D-27</u>	100	CHRC	6.5
	500	CJCA	745		100	CKCI	645
	500	CKUA	580		100	CKCV	880
<u>Lebridge C-8</u>	100	CJOC	1120	SASKATCHEWAN			
<u>Rea Deer A-8</u>	1000	CKLC	840	<u>Canora B-13 tl</u>	15	10-BU	1200
BRITISH COLUMBIA				<u>Fleming C-13</u>	1000	CJRW	665
<u>Chilliwack B-3</u>	100	CHWK	665	<u>Moose Jaw C-11</u>	500	CJRM	665
<u>Kamloops B-5</u>	100	CJEC	1120		25	10-AB	1200
<u>Kelowna C-6 tl</u>	100	CKOV	1200	<u>Prince Albert A-11 rc</u>	25	10-BI	1200
<u>Trail C-6 c</u>	25	10-AT	1155	<u>Regina C-12</u>	500	CHWC	960
<u>Vancouver B-3</u>	100	CHLS	730		500	CKCK	960
	500	CJOB	1210	<u>Saskatoon B-11</u>	500	CFQC	910
	100	CKCD	730	<u>Yorkton B-13</u>	500	CJGX	630
	50	CKEC	730	NEWFOUNDLAND			
	100	CKMO	730	<u>St. Johns A-35</u>	200	VOAS	810
	100	CKVX	730		500	VOGY	910
	500	CNRV	1030		100	VONA	950
<u>Victoria C-3</u>	500	CJCT	630		500	VONE	1115
					750	VOWR	750
MANITOBA				<u>Wabana A-35</u>	400	VOGT	893
<u>Brandon D-14</u>	500	CKX	930	CENTRAL AMERICA			
<u>Winnipeg D-15</u>	5000	CKY	780	COSTA RICA			
NEW BRUNSWICK				<u>San Jose FF-23</u>	50	TICR	911
<u>Fredericton D-29</u>	100	CFNB	1210	GUATAMALA			
<u>Moncton D-30</u>	700	CNRA	630	<u>Guatamala CC-18 tr</u>	50	TGW	570
<u>St. John D-30</u>	500	CFBO	890	SALVADOR			
NOVA SCOTIA				<u>Salvador CC-19 br</u>	500	RUS	664
<u>Glace Bay C-32</u>	2000	VAS	685	MEXICO			
<u>Halifax E-31</u>	500	CHNS	815	AGUASCALIENTES			
	500	CNRH	815	<u>Aguascalientes W-11 bc</u>	250	XFC	810
	100	VXX	690	BAJA CALIFORNIA			
<u>Sydney C-32</u>	100	CJCB	880	<u>Tiajuana N-3 bc</u>	300	XEFD	1020
<u>Wolfville D-31</u>	50	CKIC	1010	CHIHUAHUA			
ONTARIO				<u>Chihuahua R-9</u>	100	XEFI	1000
<u>Brantford H-23 tr</u>	15	10-BQ	1200		250	XFF	875
<u>Chatham H-22</u>	250	CFCO	1210	<u>Juarez P-9</u>	101	XEI	1000
<u>Cobalt E-23</u>	100	CKMC	890		5000	XEQ	750
<u>Ft. William E-19 bl</u>	100	CKPR	880	COAHUILA			
<u>Hamilton H-24</u>	50	CHML	635	<u>Saltillo, Coah. U-12</u>	25	XEL	1000
	1000	CKOC	930	<u>Torreón U-11 tl</u>	125	XETB	1380
<u>Kingston G-25</u>	50	CFEC	595		100	XETG	1000
<u>London H-23</u>	5000	CJCG	930	<u>Villa Acuna R-12 c</u>	75000	XER-XEF	735
<u>North Bay F-23 c</u>	100	CFCH	890	D. F.			
<u>Ottawa F-25</u>	500	CKCO	600	<u>Coyoacan Y-13</u>	100	XEFZ	1370
	100	CFLC	915	<u>Mexico City Y-13</u>	1000	XEB	1030
<u>Prescott F-25</u>	100	CKPC	880		250	XEFA	1250
<u>Preston H-23</u>	100	CKPB	635		250	XEG	1070
<u>St. Catharines H-24 tl</u>	1000	CKTB	1200		101	XEK	990
<u>Stratford H-23 tc</u>	15	10-AK	1120		1000	XEN	711
<u>Toronto G-24</u>	500	CECA	690		5000	XEFO	940
	10000	CFBC	840		500	XETA	1140
	5000	CHNC	580		100	XETQ	1230
	500	CKCL	840		2500	XETR	610
	5000	CKGW	960		5000	XEW	910
	500	CKNC	840		500	XEX	1210
	5000	OPRY	840		500	XEZ	780
<u>Waterloo G-23</u>	100	CKCR	645		2000	XFG	638
<u>Windsor I-22 tc</u>	5000	CKOK	1199		500	XFX	867
<u>Wingham G-23</u>	25	10-BP	1199	<u>Toluca Y-12</u>	50	XEC	1000
PRINCE EDWARD ISLAND							
<u>Charlottetown C-31</u>	500	CFCY	580				
	100	CHCK	960				
<u>Summerside C-31</u>	100	CHGS	1120				
QUEBEC							
<u>Montreal E-26</u>	500	CFCE	N 1030				
	100	CHCH	1200				
	5000	CHYC	730				
	5000	CKAC	C 730				

INDEX BY LOCATIONS WITH MAP KEY

	Watts		Kcys.		Watts		Kcys.
JALISCO							
Guadalajara, Jal. X-10	500	XEA	1155	Cienfuegos W-25	40	CMHJ	1125
MICHOACAN					20	CMHL	1290
Morelia, Mich. Y-12	150	XEI	1310	Colon W-24	100	CMGA	834
NEUVO LEON				Cruces	15	CMHK	1225
Monterrey, N. L. U-13	100	XEBB	1315	Guantanamo X-28 tc	20	CMKJ	1300
	1000	XEB	1132	Havana W-23	500	CMAF	680
	500	XET	690		150	CMAY	965
OAXACA					150	CMBC	965
Oaxaca, Oax. AA-14	105	XEE	1000		150	CMBD	1270
PUEBLA					150	CMBF	1365
Puebla Z-13	101	XEV	1000		225	CMBG	1070
QUERETARO					150	CMBJ	1140
Queretaro X-12 br	40	XEFS	1000		15	CMBK	1485
TAMAULIPAS					20	CMBL	1445
N. Laredo S-13	101	XEFE	1000		30	CMBN	1445
	50000	XENT	1115		40	CMBR	1485
	200	XEP	1400		150	CMBS	780
Reynosa, Tams. T-14	10000	XED	965		150	CMBW	1140
Tampico, Tams. W-14	500	XEM	730		350	CMBY	1230
	500	XES	1055		150	CMBZ	1010
VERA CRUZ					500	CMC	840
Jalapa Y-14	100	XETC	1000		150	CMCA	1230
Vera Cruz, Ver. Z-14	500	XETF	630		150	CMCB	1070
	100	XEU	1007		250	CMCD	925
YUCATAN					250	CMCE	890
Merida, Yuc. X-19	10	XEFC	1050		50	CMCF	1405
	105	XEY	1000		250	CMCG	588
WEST INDIES					15	CMCM	1405
BAHAMA					250	CMCN	1270
Nassau T-27 c	500	VPN	610		1000	CMCO	780
CUBA					150	CMCR	1325
Caibarien W-25	250	CMHD	950		150	CMCU	630
Camaguey W-26	150	CMIC	1382		150	CMCV	1325
	50	CMIE	1175		150	CMCW	1010
	200	CMIF	930		1000	CMCX	1365
	50	CMJG	1050		40	CMDB	1405
	50	CMJL	960		150	CMDD	588
	50	CMJN	1240		250	CMDE	925
Cardenas W-24	30	CMGE	1375		3150	CMK	730
Ciego de Avila W-26	50	CMJH	1150		250	CMO	630
	5	CMJI	1260		1400	CMW	1185
	15	CMJO	1110		500	CMX	890
				Matanzas W-24	30	CMGB	1205
					30	CMGC	820
					100	CMGF	987
					15	CMGH	1040
				Moron	7.5	CMJP	1310
				Pinar del Rio W-22	20	CMAB	1249
				Santa Clara W-25	30	CMHI	1030
				Santiago X-28	150	CMKC	1034
				Tuinucu W-25 rc	250	CMHC	790
				DOMINICAN REPUBLIC			
				Santo Domingo X-31	1000	HIX	630
				HAITI			
				Port au Prince X-30	1000	HHK	920

TIME CONVERSION TABLE

Atlantic	Eastern	Central	Mountain	Pacific	Atlantic	Eastern	Central	Mountain	Pacific
1:00	12:00	11:00	10:00	9:00	7:00	6:00	5:00	4:00	3:00
2:00	1:00	12:00	11:00	10:00	8:00	7:00	6:00	5:00	4:00
3:00	2:00	1:00	12:00	11:00	9:00	8:00	7:00	6:00	5:00
4:00	3:00	2:00	1:00	12:00	10:00	9:00	8:00	7:00	6:00
5:00	4:00	3:00	2:00	1:00	11:00	10:00	9:00	8:00	7:00
6:00	5:00	4:00	3:00	2:00	12:00	11:00	10:00	9:00	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.; 7-9 p.m.	CJRW	665 Fleming, Sask., <i>MST</i> . Noon-1 p.m.; 4:30-7:30 p.m.	CMCB	1070 Havana, Cuba, <i>EST</i> . 11:30 a.m.-1 p.m.; 5-6 p.m.; 7:30-10 p.m.
CFBO	890 St. John, N. B.	CKAC	730 Montreal, Que., <i>EST</i> . 7:30 a.m.-mid.	CMCD	925 Havana, Cuba, <i>EST</i> . Noon-3 p.m.; 8 p.m.-mid.
CFCA	1120 Toronto, Ont., <i>EST</i> . 7:15-noon; 1-10:30 p.m.	CKCD	730 Vancouver, B. C.	CMCF	890 Havana, Cuba, <i>EST</i> . 5-8 p.m.; 9-11 p.m.
CFCF	1030 Montreal, Que., <i>EST</i> . 8 a.m.-mid.	CKCI	645 Quebec, Que., <i>EST</i> . 1-1:30 p.m.	CMCH	1405 Havana, Cuba, <i>EST</i> . 5-9 p.m.
CFCH	930 North Bay, Ont., <i>EST</i> . 8-8:30 a.m.; noon-1 p.m.; 5-8 p.m.	CKCK	960 Regina, Sask., <i>MST</i> . 9-10 a.m.; 11 a.m.-noon; 1-3:30 p.m.; 5:30-mid.	CMCJ	588 Havana, Cuba
CFCN	985 Calgary, Alta., <i>MST</i> . 7:30 a.m.-1:30 p.m.; 5-11 p.m.	CKCL	580 Toronto, Ont., <i>EST</i> . 8:30 a.m.-mid.	CMCM	1405 Havana, Cuba
CFCO	1210 Chatham, Ont., <i>EST</i> . 9-10 p.m.	CKCO	890 Ottawa, Ont.	CMCN	1270 Havana, Cuba
CFCT	630 Victoria, B. C., <i>PST</i> . 8 a.m.-12:30 p.m.; 6-8 p.m.	CKCR	645 Waterloo, Ont., <i>EST</i> . 10 a.m.-1:15 p.m.; 4-10 p.m.	CMCQ	780 Havana, Cuba
CFCY	580 Charlottetown, P. E. I., <i>AST</i> . 11:30 a.m.-noon; 4:30-8 p.m.	CKCV	880 Quebec, Que., <i>EST</i> . Noon-2 p.m.; 6:30-11 p.m.	CMCR	1325 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.	CKFC	730 Vancouver, B. C. Silent.	CMCU	830 Havana, Cuba
CFLE	915 Prescott, Ont., <i>EST</i> . 8-10 a.m.; noon-2 p.m.; 5-7:30 p.m.; 8-10 p.m.	CKGW	840 Toronto, Ont., <i>EST</i> . 6:45 a.m.-mid.	CMCV	1212 Havana, Cuba
CFNB	1210 Fredericton, N. B., <i>AST</i> . 8:30-9:30 a.m.; 12:30-2 p.m.	CKKW	1010 Wolfville, N. S., <i>AST</i> . 7:30-8:30 a.m.; 12:15-1:15 p.m.; 6-7 p.m.	CMCW	1012 Havana, Cuba
CFQC	910 Saskatoon, Sask.	CKLC	840 Red Deer, Alta., <i>MST</i> . 8 a.m.-8:15 p.m.	CMCX	1365 Havana, Cuba, <i>EST</i> . 8:30-10:30 p.m.
CFRB	690 Toronto, Ont., <i>EST</i> . 8 a.m.-mid.	CKMC	1210 Cobalt, Ont.	CMDB	1405 Havana, Cuba
CFRC	930 Kingston, Ont.	CKMO	730 Vancouver, B. C.	CMDD	588 Havana, Cuba
CHCH	1200 Montreal, Que.	CKNC	960 Toronto, Ont., <i>EST</i> . 8 a.m.-12:30 p.m.; 2:30-11:15 p.m.	CMDE	925 Havana, Cuba
CHCK	960 Charlottetown, P. E. I., <i>AST</i> . Noon-2 p.m.; 5-7:30 p.m.	CKOC	635 Hamilton, Ont., <i>EST</i> . 8 a.m.-10:30 p.m.	CMDF	834 Colón, Cuba
CHGS	1120 Summerside, P. E. I., <i>AST</i> . 10 a.m.-2 p.m.; 4-8 p.m.	CKOK	540 Windsor, Ont., <i>EST</i> . 7:30 a.m.-mid.	CMDB	1205 Matanzas, Cuba
CHLS	730 Vancouver, B. C., <i>PST</i> . 8:50-10:30 p.m.	CKOV	1200 Kelowna, B. C., <i>PST</i> . 8-9 a.m.; 11:30 a.m.-2 p.m.; 4:30-7:30 p.m.; 9-11 p.m.	CMGE	820 Matanzas, Cuba
CHMA	580 Edmonton, Alta., <i>MST</i> . Silent.	CKPC	880 Preston, Ont., <i>EST</i> . 4 p.m.-mid.	CMGG	1375 Cardenas, Cuba
CHML	880 Hamilton, Ont., <i>EST</i> . 9 a.m.-2 p.m.	CKPR	890 Ft. William, Ont., <i>EST</i> . 9 a.m.-2 p.m.; 5:30-11 p.m.	CMGF	987 Matanzas, Cuba
CHNC	840 Toronto, Ont.	CKTB	635 St. Catharines, Ont., <i>EST</i> . 1:30-5 p.m.; 6:30-8 p.m.	CMGH	1040 Matanzas, Cuba
CHNS	815 Halifax, N. S., <i>AST</i> . 8 a.m.-2 p.m.; 6 p.m.-mid.	CKUA	580 Edmonton, Alta., <i>MST</i> . Silent.	CMHG	790 Tuinucu, Cuba
CHRC	645 Quebec, Que., <i>EST</i> . 9 a.m.-2 p.m.; 5 p.m.-mid.	CKWX	730 Vancouver, B. C., <i>PST</i> . 8-8:30 a.m.; 10:30 a.m.-noon; 4:30-7:30 p.m.	CMHD	950 Caibarien, 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.	CKX	930 Brandon, Man., <i>CST</i> . 8:30-9:30 a.m.	CMHI	1030 Santa Clara, Cuba, <i>EST</i> . 11 a.m.-1 p.m.; 8-10 p.m.
CHWK	665 Chilliwack, B. C., <i>PST</i> . Noon-8 p.m.	CKY	780 Winnipeg, Man., <i>CST</i> . 8:30 a.m.-2 p.m.; 3:30-6 p.m.; 7-11 p.m.	CMHJ	1125 Cienfuegos, Cuba, <i>EST</i> . 11 a.m.-1 p.m.; 7-9 p.m.
CHYC	730 Montreal, Que.	CMAB	1249 Pinar del Rio, Cuba.	CMHK	1225 Cruces, Cuba
CJCA	745 Edmonton, Alta., <i>MST</i> . 7:45-9:15 a.m.; noon-1 p.m.; 3:30-4:30 p.m.; 5-10 p.m.	CMAF	660 Havana, Cuba.	CMHL	1290 Cienfuegos, Cuba.
CJCB	880 Sydney, N. S., <i>AST</i> . 10 a.m.-2 p.m.; 6-10 p.m.	CMAY	965 Havana, Cuba.	CMJ	1382 Camaguey, Cuba.
CJCC	690 Calgary, Alta., <i>MST</i> . 9-11:30 a.m.; 1:45-3 p.m.; 6-7 p.m.	CMBC	965 Havana, Cuba, <i>EST</i> . 11 a.m.-5 p.m.	CMJE	1175 Camaguey, Cuba.
CJGC	595 London, Ont., <i>EST</i> . 8:45 a.m.-1:15 p.m.; 5:30-10 p.m.	CMBD	1270 Havana, Cuba.	CMJF	930 Camaguey, Cuba.
CJGX	630 Yorkton, Sask., <i>CST</i> . 8:30-9:15 a.m.; 10:30-10:45 a.m.; 12:40-1:15 p.m.; 7:15-8 p.m.	CMBF	1365 Havana, Cuba.	CMJG	1050 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.	CMBG	1070 Havana, Cuba.	CMJH	1150 Ciego de Avila, Cuba, <i>EST</i> . 10 a.m.-2 p.m.; 5-10 p.m.
CJOR	1210 Vancouver, B. C., <i>PST</i> . 7:30 a.m.-1 p.m.; 4-11:30 p.m.	CMBJ	1040 Havana, Cuba.	CMJI	1260 Ciego de Avila, Cuba, <i>EST</i> . 10 a.m.-1:30 p.m.; 6-10 p.m.
CJRM	665 Moose Jaw, Sask., <i>MST</i> . 8-10:30 a.m.; noon-2:30 p.m.; 7:30-10 p.m.	CMBK	1485 Havana, Cuba.	CMJL	960 Camaguey, Cuba.
		CMBL	1445 Havana, Cuba, <i>EST</i> . 3-5 p.m.	CMJO	1110 Ciego de Avila, Cuba.
		CMBN	1445 Havana, Cuba, <i>EST</i> . 2-3 p.m.; 9:15-11 p.m.	CMJP	1310 Moron, Cuba.
		CMBR	1485 Havana, Cuba.	CMK	730 Havana, Cuba, <i>EST</i> . 10 a.m.-noon; 6 p.m.-mid.
		CMBS	780 Havana, Cuba.	CMKC	1034 Santiago, Cuba.
		CMBW	1140 Havana, Cuba.	CMKJ	1300 Guantanamo, Cuba.
		CMBY	1230 Havana, Cuba.	CMKQ	630 Havana, Cuba.
		CMBZ	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.	CMW	1185 Havana, Cuba, <i>EST</i> . 7:30 a.m.-11:30 p.m.
		CMC	840 Havana, Cuba.	CMX	890 Havana, Cuba, <i>EST</i> . 11 a.m.-2 p.m.; 8-11 p.m.
		CMCA	1230 Havana, Cuba.	CMRA	630 Moncton, N. B., <i>AST</i> . 12:30-2 p.m.; 6:15-7:15 p.m.; 8-10 p.m.
				CMRH	815 Halifax, N. S., <i>AST</i> . Silent.
				CMRO	600 Ottawa, Ont., <i>EST</i> . Noon-1 p.m.; 6-11 p.m.
				CMRV	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.; 7:45-8:30; 9:30-10 p.m.
				HHK	920 Portau 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> . 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.	KFJR 1300 Portland, Ore., <i>PST</i> . 10:30 a.m.-2:30 p.m.; 5-6 p.m.; 7-mid.	KFYD 1310 Lubbock, Texas. KFYR 550 Bismarck, N. D., <i>CST</i> . 6:30 a.m.-12:30 p.m.; 2-11 p.m.
KBPS 1200 Portland, Ore., <i>PST</i> . 11 a.m.-12:30 p.m.; 3-5 p.m.	KFJZ 1370 Fort Worth, Texas, <i>CST</i> . 7 a.m.-11 p.m.	KGA 1470 Spokane, Wash., <i>PST</i> . 6 a.m.-mid.
KBTM 1200 Paragould, Ark., <i>CST</i> . 7:30 a.m.-1:30 p.m.; 3:15-6:15	KFKA 880 Greeley, Colo., <i>MST</i> . 6-7:30 a.m.; 9 a.m.-2:30 p.m.; 8-11 p.m.	KGAR 1370 Tucson, Ariz., <i>MST</i> . 7 a.m.-1:30 p.m.; 4-11
KCMC 1420 Texarkana, Ark., <i>CST</i> . 6:45 a.m.-2 p.m.; 4-9 p.m.	KFKU 1220 Lawrence, Kans., <i>CST</i> . 2:30-3 p.m.; 6-6:15 p.m.	KGB 1330 San Diego, Calif., <i>PST</i> . 7 a.m.-mid.
KCRC 1370 Enid, Okla., <i>CST</i> . 10 a.m.-2 p.m.; 3:45-7:45 p.m.	KFKX 1020 Chicago, Ill.	KGBU 900 Ketchikan, Alaska.
KCRJ 1310 Jerome, Ariz., <i>MST</i> . 7:30-9:30 a.m.; noon-1 p.m.; 3:45-6 p.m.	KFLV 1410 Rockford, Ill., <i>CST</i> . 10 a.m.-12:30 p.m.; 3-6 p.m.; 8-10 p.m.	KGBX 1310 Springfield, Mo., <i>CST</i> . 6:30-9:30 a.m.; 11 a.m.-2 p.m.; 4-10 p.m.
KDB 1500 Santa Barbara, Calif., <i>PST</i> . 8 a.m.-mid.	KFLX 1370 Galveston, Texas	KGBZ 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-mid.
KDFN 1440 Casper, Wyo., <i>MST</i> . 9 a.m.-9 p.m.	KFMX 1250 Northfield, Minn. Silent.	KGCA 1270 Decorah, Iowa, <i>CST</i> . 8:30-9:45 a.m.; 10:45-11:30 a.m.; 12:30-2:30
KDKA 980 Pittsburgh, Pa., <i>EST</i> . 7 a.m.-12:30 a.m. next day.	KFNF 890 Shenandoah, Ia., <i>CST</i> . 5-8 a.m.; 9-10 a.m.; 12:15-5 p.m.; 6-10 p.m.	KGCR 1210 Watertown, S. D., <i>CST</i> . 6:30 a.m.-3 p.m.; 6:45-9 p.m.
KDLR 1210 Devils Lake, N. D., <i>CST</i> . 7 a.m.-3 p.m.; 5:30-9:30 p.m.	KFOR 1210 Lincoln, Nebr., <i>CST</i> . 7 a.m.-10 p.m.	KGCU 1240 Mandan, N. D., <i>CST</i> . Noon-5 p.m.; 6:45-9 p.m.
KDYL 1290 Salt Lake City, Utah, <i>MST</i> . 6:30 a.m.-1 a.m. next day.	KFOX 1250 Long Beach, Calif., <i>PST</i> . 6 a.m.-mid.	KGCX 1310 Wolf Point, Mont., <i>MST</i> . 7:30-9 a.m.; noon-3 p.m.; 6-7:30
KECA 1430 Los Angeles, Calif., <i>PST</i> . 9 a.m.-11 p.m.	KFPL 1310 Dublin, Texas, <i>CST</i> . 6 a.m.-10:30 p.m.	KGDA 1370 Mitchell, S. D., <i>CST</i> . 8 a.m.-4:30 p.m.; 5:30-9
KELW 780 Burbank, Calif., <i>PST</i> . 10 a.m.-1 p.m.; 5-8 p.m.	KFPM 1310 Greenville, Texas, <i>CST</i> . 7:45-9 a.m.; 1-2:45 p.m.; 6-9 p.m.	KGDE 1200 Fergus Falls, Minn., <i>CST</i> . 7 a.m.-9 p.m.
KERN 1200 Bakersfield, Calif., <i>PST</i> . 7:30 a.m.-Mid.	KFPW 1210 Fort Smith, Ark., <i>CST</i> . 6:30 a.m.-2 p.m.; 5-10:30 p.m.	KGDM 1100 Stockton, Calif., <i>PST</i> . 6 a.m.-sunset.
KEX 1180 Portland, Ore., <i>PST</i> . 7 a.m.-noon; 1 p.m.-mid.	KFPY 1340 Spokane, Wash., <i>PST</i> . 7 a.m.-12:30 a.m. next day.	KGDY 1200 Huron, S. D., <i>CST</i> . 7 a.m.-2 p.m.; 4-9 p.m.
KFAB 770 Lincoln, Neb., <i>CST</i> . 6 a.m.-10:30 p.m.	KFQD 1230 Anchorage, Alaska. 6 p.m.-mid. (Zone 6)	KGDK 1200 Yuma, Colo., <i>MST</i> . 11 a.m.-1:30 p.m.
KFAC 1300 Los Angeles, Calif., <i>PST</i> . 7 a.m.-mid.	KFRD 610 San Francisco, Calif., <i>PST</i> . 7 a.m.-1 a.m. next day.	KGER 1360 Long Beach, Calif., <i>PST</i> . 6 a.m.-mid.
KFBB 1280 Great Falls, Mont., <i>MST</i> . 8 a.m.-3 p.m.; 5-10 p.m.	KFRU 630 Columbia, Mo., <i>CST</i> . 6:30 a.m.-9; 4-8 p.m.	KGEW 1200 Ft. Morgan, Colo., <i>MST</i> . 6:30-9:30 p.m.
KFBI 1050 Abilene, Kans., <i>CST</i> . 5 a.m.-9 p.m.	KFSD 600 San Diego, Calif., <i>PST</i> . 7:30 a.m.-mid.	KGEZ 1310 Kalispell, Mont., <i>MST</i> . 8 a.m.-9 p.m.
KFBK 1310 Sacramento, Calif., <i>PST</i> . 7 a.m.-11 p.m.	KFSG 1120 Los Angeles, Calif., <i>PST</i> . 1:30-3 p.m.; 7:30-mid.	KGFF 1420 Shawnee, Okla., <i>CST</i> . 7:30 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.	KFUL 1290 Galveston, Texas, <i>CST</i> . 8-9:30 a.m.; 11 a.m.-1 p.m.; 2-3:4 p.m.; 5:30-8 p.m.; 10: 15 p.m.-mid.	KGFG 1370 Oklahoma City, Okla., <i>CST</i> . 7.1-10 a.m.; 3-3:45 p.m.; 7:45- 10 p.m.
KFDM 560 Beaumont, Texas, <i>CST</i> . 7 a.m.-2 p.m.; 4:30-10:30 p.m.	KFUO 550 St. Louis, Mo., <i>CST</i> . 6:30-7 a.m.; 12:15-12:40 p.m.; 11 p.m. unlimited.	KGFI 1500 Corpus Christi, Texas, <i>CST</i> . 7 a.m.-3 p.m.; 6-10 p.m.
KFDY 550 Brookings, S. D., <i>CST</i> . 12:30-2 p.m.	KFVD 1000 Los Angeles, Calif., <i>PST</i> . 6 a.m.-6:45 p.m.; 10 p.m.-mid.	KGFL 1200 Los Angeles, Calif. 24 hours daily.
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.	KFVS 1210 Cape Girardeau, Mo., <i>CST</i> . 9 a.m.-noon; 4-7:30; 9-mid.	KGFK 1500 Moorhead, Minn., <i>CST</i> . 8 a.m.-9 p.m.
KFEQ 680 St. Joseph, Mo., <i>CST</i> . 6 a.m.-7:45 p.m.	KFWB 950 Los Angeles, Calif., <i>PST</i> . 7:30 a.m.-mid.	KGFL 1370 Santa Fe, N. M., <i>MST</i> . 9-10 a.m.; 11 a.m.-3 p.m.; 4-5:30 p.m.;
KFGQ 1310 Boone, Iowa, <i>CST</i> . 6-7:30 a.m.; 1:30-2:30 p.m.	KFWF 1200 St. Louis, Mo., <i>CST</i> . 9:15 a.m.-11:15 a.m.	KGFW 1310 Kearney, Neb., <i>CST</i> . 7:30 a.m.-1:30 p.m.; 5-10:30 p.m.
KFH 1300 Wichita, Kans., <i>CST</i> . 7-8:30 a.m.; 9-11 a.m.; 11:30 a.m.-2 p.m.; 3-11 p.m.	KFWI 930 San Francisco, Calif., <i>PST</i> . 7-8 a.m.; 9 a.m.-1 p.m.; 6-7:30 p.m.; 11 p.m.-1 a.m.	KGFX 630 Pierre, S. D.
KFI 640 Los Angeles, Calif., <i>PST</i> . 6:30 a.m.-mid.	KFXD 1200 Nampa, Idaho, <i>MST</i> . 7 a.m.-9 p.m.	KGGC 1420 San Francisco, Calif., <i>PST</i> . 9 a.m.-9 p.m.
KFIO 1120 Spokane, Wash., <i>PST</i> . 6 a.m.-sunset.	KFXF 920 Denver, Colo., <i>MST</i> . 8:30-10 a.m.; 12:30-3; 4:30-6; 7:30-mid.	KGGF 1010 Coffeyville, Kans., <i>CST</i> . 7:30 a.m.-2 p.m.; 5-10:30
KFIZ 1420 Fond du Lac, Wis., <i>CST</i> . 10 a.m.-1 p.m.; 4-10 p.m.	KFXJ 1310 Grand Jet, Colo., <i>MST</i> . 8 a.m.-2 p.m.; 6-9 p.m.	KGGM 1230 Albuquerque, N. M., <i>MST</i> . 8 a.m.-2 p.m.; 4-10 p.m.
KFJB 1200 Marshalltown, Iowa, 6-9 a.m.; noon-3 p.m.; 6-9 p.m.	KFXM 1210 San Bernardino, Calif., <i>PST</i> . 7 a.m.-mid.	KGHF 1320 Pueblo, Colo., <i>MST</i> . 7 a.m.-1 p.m.; 4-10 p.m.
KFJI 1210 Klamath Falls, Ore., <i>PST</i> . 7:30 a.m.-9 p.m.	KFXR 1310 Oklahoma City, Okla., <i>CST</i> . 7:30 a.m.-2 p.m.; 4-10	KGHI 1200 Little Rock, Ark., <i>CST</i> . 8:30 a.m.-1:30 p.m.; 5-9; mid- 3 a.m.

KGHL 950 Billings, Mont., <i>MST</i> . 7:30 a.m.-4 p.m.; 5:30-11	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.
KGIR 1360 Butte, Mont., <i>MST</i> . 7 a.m.-mid.	KLZ 560 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.
KGIW 1420 Trinidad, Colo.	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	KQW 1010 San Jose, Calif., <i>PST</i> . 7 a.m.-3 p.m.; 4:30-10 p.m.
KGIX 1420 Las Vegas, Nev., <i>PST</i> . 6-9 a.m.; noon-3 p.m.; 6-9 p.m.	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.
KGIZ 1500 Grant City, Mo., <i>CST</i> . 7-11 a.m.; noon-5 p.m.-6-9 p.m.	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.
KGKB 1500 Tyler, Texas, <i>CST</i> . 7 a.m.-2 p.m.; 4-10 p.m.	KMED 1310 Medford, Ore., <i>PST</i> . 8 a.m.-9:30 p.m.	KRGV 1260 Hurling, Texas, <i>CST</i> . 7-9:30 a.m.; 12:30-3:30 p.m.
KGKL 1370 San Angelo, Texas, <i>CST</i> . 8 a.m.-9:30 p.m.	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.; 3-7:30 p.m.
KGKO 570 Wichita Falls, Texas.	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.; 12:30-1:30 p.m.; 5:30-8 p.m.; 9:30-10:30 p.m.
KGKX 1420 Lewiston, Idaho.	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.
KGKY 1500 Scottsbluff, Neb., <i>MST</i> . 6:30 a.m.-2 p.m.; 4:30-9	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.; 7:30-11 p.m.
KGMB 1320 Honolulu, Hawaii. 7-9 a.m.; 10:40 a.m.-11 p.m. (Zone 5)	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.
KGNF 1430 North Platte, Neb., <i>MST</i> . 7 a.m.-sunset.	KMPK 710 Beverly Hills, Calif.	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.
KGNO 1210 Dodge City, Kans., <i>MST</i> . 7:30 a.m.-3:30 p.m.; 5-9	KMTR 570 Hollywood, Calif., <i>PST</i> . 6:30 a.m.-mid.	KSCJ 1330 Sioux City, Iowa, <i>CST</i> . 6:30 a.m.-11 p.m.
KGQ 790 San Francisco, Calif., <i>PST</i> . 7 a.m.-12:30 a.m. next day.	KNOW 1500 Austin, Texas, <i>CST</i> . 7:30 a.m.-1 p.m.; 5-11 p.m.	KSD 550 St. Louis, Mo., <i>CST</i> . 7 a.m.-12:15 p.m.; 12:40-11 p.m.
KGRS 1410 Amarillo, Texas, <i>CST</i> . 6-8 a.m.; 10 a.m.-12:30 p.m.; 3-4:30 p.m.; 6-7:30 p.m.; 9-10 p.m.	KNX 1050 Hollywood, Calif., <i>PST</i> . 6:30 a.m.-1 a.m. next day.	KSEI 890 Pocatello, Idaho, <i>MST</i> . 8 a.m.-11 p.m.
KGU 750 Honolulu, Hawaii (Zone 5). 6:15 a.m.-11:15; noon-1; 4:45-11 p.m.	KOA 830 Denver, Colo., <i>MST</i> . 7 a.m.-mid.	KSL 1130 Salt Lake City, Utah, <i>MST</i> . 7 a.m.-mid.
KGVO 1200 Missoula, Mont., <i>MST</i> . 6 a.m.-mid.	KOAC 550 Corvallis, Ore., <i>PST</i> . 6:30 a.m.-4 p.m.; 6-8:30 p.m.	KSO 1389 Clarinda, Iowa.
KGW 620 Portland, Ore., <i>PST</i> . 6:30 a.m.-mid.	KOB 1180 Albuquerque, N. M., <i>MST</i> . 7 a.m.-9 p.m.	KSOO 1110 Sioux Falls, S. D., <i>CST</i> . 6 a.m.-8 p.m.
KGY 1210 Olympia, Wash., <i>PST</i> . 6 a.m.-6 p.m.	KOCW 1300 Chickasha, Okla.	KSTP 1460 St. Paul, Minn., <i>CST</i> . 6:30 a.m.-12:30 a.m. next day.
KHJ 900 Los Angeles, Calif., <i>PST</i> . 7 a.m.-1 a.m. next day.	KOH 1380 Reno, Nev., <i>PST</i> . 8 a.m.-9 p.m.	KTAB 560 San Francisco, Calif., <i>PST</i> . 6:45 a.m.-1 a.m. next day.
KHQ 590 Spokane, Wash., <i>PST</i> . 7 a.m.-mid.	KOIL 1260 Council Bluffs, Ia., <i>CST</i> . 6 a.m.-1 a.m. next day.	KTAR 620 Phoenix, Ariz., <i>MST</i> . 7 a.m.-11:15 p.m.
KICA 1370 Clovis, N. M.	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-mi l.
KICK 1420 Red Oak, Iowa.	KOL 1270 Seattle, Wash., <i>PST</i> . 6:45 a.m.-mid.	KTBS 1450 Shreveport, La., <i>CST</i> . 6 a.m.-mid.
KID 1320 Idaho Falls, Idaho, <i>MST</i> . 9 a.m.-mid.	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.
KIDO 1350 Boise, Idaho, <i>MST</i> . 7 a.m.-10 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.; 4:30-5:30 p.m.; 8-9:30 p.m.; 10:30-11:30 p.m.
KIDW 1420 Lamar, Colo., <i>MST</i> . 6 a.m.-8 a.m.; 2-6 p.m.; 8-10	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.
KIT 1310 Yakima, Wash., <i>PST</i> . 7 a.m.-11 p.m.	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.
KJBS 1070 San Francisco, Calif., <i>PST</i> . Mid. to local sunset.	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.
KJR 970 Seattle, Wash., <i>PST</i> . 7 a.m.-mid.	KOY 1390 Phoenix, Ariz., <i>MST</i> . 7 a.m.-10 p.m.	KTSM 1310 El Paso, Texas.
KLCN 1290 Blytheville, Ark.	KPCB 650 Seattle, Wash., <i>PST</i> . 5:30 a.m.-8 p.m.; 10 p.m.-4 a.m. next day.	KTW 1220 Seattle, Wash.
KLO 1400 Salt Lake City, Utah, <i>MST</i> . 8:30 a.m.-10:30 p.m.	KPJM 1500 Prescott, Ariz.	KUJ 1370 Walla Walla, Wash., <i>PST</i> . 6 a.m.-sunset.
KLPM 1240 Minot, N. D., <i>CST</i> . 7 a.m.-1 p.m.; 6-7:45 p.m.; 10-11:30 p.m.	KPO 680 San Francisco, Calif., <i>PST</i> . 7:30 a.m.-mid.	KUMA 1420 Yuma, Ariz., <i>MST</i> . 7-9 a.m.; noon-3 p.m.; 6-9 p.m.
KLRA 1390 Little Rock, Ark., <i>CST</i> . 8-11 a.m.; 1-5 p.m.; 6:30-11 p.m.	KPOF 880 Denver, Colo., <i>MST</i> . 7:30-9 a.m.; 2:30-4:30 p.m.; 6-8 p.m.	KUOA 1390 Fayetteville, Ark., <i>CST</i> . 7-8 a.m.; 11 a.m.-1 p.m.; 5-6:30
KLS 1440 Oakland, Calif., <i>PST</i> . 8:30 a.m.-7:30 p.m.	KPPC 1210 Pasadena, Calif. Silent.	KUSD 890 Vermillion, S. D., <i>CST</i> . Silent.
	KPQ 1500 Wenatchee, Wash., <i>PST</i> . 7 a.m.-10 p.m.	KVI 570 Tacoma, Wash., <i>PST</i> . 6:30 a.m.-mid.

KVL 1370 Seattle, Wash.	WAGO 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.
KVOA 1260 Tucson, Ariz. 6-9 a.m.; noon-3 p.m.; 6-9 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 p.m.; 9-10
KVOO 1140 Tulsa, Okla., <i>CST.</i> 7 a.m.-1:45 p.m.; 3-9 p.m.	WAGM 1420 Presque Isle, Me., <i>EST.</i> 7 a.m.-1 p.m.; 3-9 p.m.	WCAL 1250 Northfield, Minn., <i>CST.</i> 9:45-10:15 a.m.
KVOR 1270 Colorado Springs, Colo., <i>MST.</i> 7 a.m.-10 p.m.	WAIU 640 Columbus, Ohio, <i>EST.</i> 7 a.m.-sunset.	WCAM 1280 Camden, N. J., <i>EST.</i> 2-5 p.m.
KVOS 1200 Bellingham, Wash.	WALR 1210 Zanesville, Ohio, <i>EST.</i> 9 a.m.-10 p.m.	WCAO 600 Baltimore, Md., <i>EST.</i> 7 a.m.-mid.
KWGR 1420 Cedar Rapids, Ia., <i>CST.</i> 6:30 a.m.-mid.	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 a.m.-noon; 5-mid.
KWEA 1210 Shreveport, La.	WAPI 1140 Birmingham, Ala., <i>CST.</i> 6:30 a.m.-sunset; 9 p.m.-mid.	WCAT 1200 Rapid City, S. D., <i>CST.</i> 12:30 p.m.-1:30 p.m.
KWG 1200 Stockton, Calif., <i>PST.</i> 7 a.m.-mid.	WASH 1270 Gd. Rapids, Mich., <i>CST.</i> 7 a.m.-mid.	WCAU 1170 Philadelphia, Pa., <i>EST.</i> 8 a.m.-1 a.m. next day.
KWJJ 1060 Portland, Ore.	WAWZ 1350 Zarephath, N. J., <i>EST.</i> 7:45-8:45 a.m.; noon-1:30 p.m.	WCAX 1200 Burlington, Vt., <i>EST.</i> Noon-1 p.m.
KWK 1350 St. Louis, Mo., <i>CST.</i> 6:55 a.m.-12:15 a.m. next day.	WBAA 1400 Lafayette, Ind., <i>CST.</i> Silent.	WCAZ 1070 Carthage, Ill., <i>CST.</i> 9:30 a.m.-3:30 p.m.
KWKC 1370 Kansas City, Mo.	WBAC 1430 Harrisburg, Pa., <i>EST.</i> 10:30-11:30 a.m.; 1:30-2:30 p.m.; 4-4:30 p.m.	WCBA 1440 Allentown, Pa., <i>EST.</i> 7:30 a.m.-1 p.m.
KWKH 850 Shreveport, La., <i>CST.</i> 8:30 p.m.-mid.	WBAL 1060 Baltimore, Md., <i>EST.</i> 7 a.m.-mid.	WCBD 1080 Zion, Ill., <i>CST.</i> 6-7 a.m.; 7:30-10:30 a.m.; 1:30-3 p.m.; 4:30-5:30 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.	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.; 6-9 p.m.	WCBM 1370 Baltimore, Md., <i>EST.</i> 7 a.m.-1:30 p.m.; 5-11 p.m.
KWSC 1220 Pullman, Wash., <i>PST.</i> 6:45-8 a.m.; 10:30-9:30 p.m.	WBAX 1210 Wilkes Barre, Pa., <i>EST.</i> 7:30 a.m.-noon; 6-11 p.m.	WCBS 1210 Springfield, Ill., <i>CST.</i> 11:30 a.m.-3 p.m.; 6:45-9 p.m.
KWWG 1250 Brownsville, Texas.	WBBC 1400 Brooklyn, N. Y., <i>EST.</i> 7-11:30 a.m.; 6-7:30 p.m.	WCCO 810 Minneapolis, Minn., <i>CST.</i> 6:45 a.m.-mid.
KXA 760 Seattle, Wash., <i>PST.</i> 7 a.m.-sundown; 9 p.m.-mid.	WBBL 1210 Richmond, Va., <i>EST.</i> Silent.	WCDA 1350 New York City, <i>EST.</i> 6:7-30 a.m.; 9-noon; 6-9 p.m.
KXL 1420 Portland, Ore., <i>PST.</i> 7 a.m.-mid.	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.
KXO 1500 El Centro, Calif.	WBBR 1300 Brooklyn, N. Y., <i>EST.</i> 10 a.m.-noon; 6-8 p.m.	WCGU 1400 Brooklyn, N. Y., <i>EST.</i> 3:45-6 p.m.; 9-10:30 p.m.
KXRO 1310 Aberdeen, Wash., <i>PST.</i> 7:30 a.m.-10 p.m.	WBBZ 1200 Ponca City, Okla., <i>CST.</i> 6 a.m.-10 p.m.	WCKY 1490 Covington, Ky., <i>CST.</i> Mid.-mid.
KXYZ 1440 Houston, Texas, <i>CST.</i> 7-10 a.m.; 11 a.m.-1:15 p.m.; 3:30-10:30 p.m.	WBCM 1410 Bay City, Mich., <i>CST.</i> 8 a.m.-mid.	WCLO 1200 Janesville, Wis., <i>CST.</i> 7:30 a.m.-3:30 p.m.; 5-9 p.m.
KYA 1230 San Francisco, Calif., <i>PST.</i> 7:30 a.m.-mid.	WBEN 900 Buffalo, N. Y., <i>EST.</i> 6:45 a.m.-1 a.m. next day.	WCLS 1310 Joliet, Ill., <i>CST.</i> 11 a.m.-noon; 3-8 p.m.
KYW 1020 Chicago, Ill., <i>CST.</i> 7 a.m.-1 a.m. next day.	WBEO 1310 Marquette, Mich.	WCMA 1400 Culver, Ind., <i>CST.</i> 6-6:30 a.m.; 1:15-4:15 p.m.; 11- mid.
NAA 690 Arlington, Va.	WBES 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.
RUS 664 Salvador.	WBIG 1440 Greensboro, N. C., <i>EST.</i> 8 a.m.-3 p.m.; 5-11 p.m.	WCCO 880 Meridian, Miss., <i>CST.</i> 7:30 a.m.-2 p.m.; 5-11 p.m.
TGW 570 Guatemala.	WBMS 1450 Hackensack, N. J., <i>EST.</i> Noon-3 p.m.	WCOD 1200 Harrisburg, Pa., <i>EST.</i> 8-11 a.m.; 3-6 p.m.; 8-11 p.m.
TICR 911 San Jose, C. R.	WBNX 1350 New York City, <i>EST.</i> 1:30-6 p.m.	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.
VAS 685 Glace Bay, N. S., <i>AST.</i> 1-1:15 p.m.; mid.-12:15 a.m.	WBOQ 860 New York City.	WCSC 1350 Charleston, S. C., <i>EST.</i> 8 a.m.-3 p.m.; 6-11 p.m.
VOAS 810 St. Johns, N. F. 11 a.m.-12:30 p.m.; 4-5:30 p.m. (Zone 19)	WBOW 1310 Terre Haute, Ind., <i>CST.</i> 7 a.m.-2 p.m.; 4-11 p.m.	WCSH 940 Portland, Maine, <i>EST.</i> 7:45 a.m.-1:30 p.m.; 2-11:15
VOGT 893 Wabana, N. F. Silent.	WBRC 930 Birmingham, Ala., <i>CST.</i> 7 a.m.-11 p.m.	WDAE 1220 Tampa, Fla., <i>EST.</i> 8 a.m.-mid.
VONA 950 St. Johns, N. F. 12:30-2 p.m.; 6:30-8 p.m. (Zone 19)	WBRE 1310 Wilkes Barre, Pa.	WDAF 610 Kansas City, Mo., <i>CST.</i> 6:26 a.m.-mid.
VONF 1115 St. Johns, N. F. 1-2 p.m.; 6:30-8 p.m. (Zone 19)	WBSO 920 Babson Park, Mass., <i>EST.</i> 7 a.m.-5 p.m.	WDAG 1410 Amarillo, Texas, <i>CST.</i> 8-10 a.m.; 12:30-3 p.m.; 4:30-6 p.m.; 7:30-9 p.m.; 10 p.m.- mid.
VOWR 750 St. Johns, N. F. 8:15-10 p.m. (Zone 19)	WBT 1080 Charlotte, N. C., <i>EST.</i> 7 a.m.-mid.	WDAL 1310 El Paso, Texas.
VOX 690 Halifax, N. S.	WBTM 1370 Danville, Va., <i>EST.</i> 11 a.m.-1 p.m.; 6-6:30 p.m.; 7- 10:30 p.m.	WDAS 1370 Philadelphia, Pa., <i>EST.</i> 9 a.m.-10:30 p.m.
VPN 610 Nassau, B. I.	WBZ 990 Boston, Mass., <i>EST.</i> 7 a.m.-mid.	WDAY 940 Fargo, N. D., <i>CST.</i> 6 a.m.-11 p.m.
WAAB 1410 Boston, Mass., <i>EST.</i> 7:45 a.m.-mid.	WBZA 990 Springfield, Mass., <i>EST.</i> 7 a.m.-mid.	WDBJ 930 Roanoke, Va., <i>EST.</i> 8 a.m.-mid.
WAAF 920 Chicago, Ill., <i>CST.</i> 6 a.m.-local sunset.	WCAC 600 Storrs, Conn., <i>EST.</i> 12:30-1 p.m.; 7-8 p.m.	WDBO 580 Orlando, Fla., <i>EST.</i> 7 a.m.-mid.
WAAM 1250 Newark, N. J., <i>EST.</i> 7-9 a.m.; 10 a.m.-noon; 2-4:30 p.m.; 6-9 p.m.	WCAD 1220 Canton, N. Y., <i>EST.</i> 12:30-1:20 p.m.	
WAAT 940 Jersey City, N. J., <i>EST.</i> 6 a.m.-6 p.m.	WCAE 1220 Pittsburgh, Pa., <i>EST.</i> 6:45 a.m.-mid.	
WAAW 660 Omaha, Neb., <i>CST.</i> 6 a.m.-6 p.m.		
WABC 860 New York City, <i>EST.</i> 7:30 a.m.-2 a.m. next day.		
WABI 1200 Bangor, Maine, <i>EST.</i> 6-9 a.m.; noon-3 p.m.; 6-9 p.m.		
WABZ 1200 New Orleans, La., <i>CST.</i> Noon-4 p.m.; 8 p.m.-mid.		

WDEL 1120	Wilmington, Del., <i>EST</i> 9 a.m.-10 p.m.	WFBM 1230	Indianapolis, Ind., <i>CST.</i> 7:30-10:15 a.m.; noon-3 p.m.; 5:30 p.m.-mid.	WHBU 1310	Anderson, Ind., <i>CST.</i> 7 a.m.-1 p.m.; 3-9:15 p.m.
WDEV 550	Waterbury, Vt., <i>EST.</i> 9:30-11 a.m.; noon-2 p.m.	WFBR 1270	Baltimore, Md., <i>EST.</i> 7 a.m.-mid.	WHBY 1200	Green Bay, Wis., <i>CST.</i> 7 a.m.-10 p.m.
WDGY 1180	Minneapolis, Minn. <i>CST.</i> 6:30 a.m.-8:15 p.m.	WFDF 1310	Flint, Mich., <i>CST.</i> 7 a.m.-11 p.m.	WHDF 1370	Calumet, Mich., <i>CST.</i> 9-9:45 a.m.; noon-1 p.m.; 4:40-7 8:30 Boston, Mass., <i>EST.</i>
WDOD 1280	Chattanooga, Tenn., <i>CST.</i> 7:30 a.m.-11 p.m.	WFDV 1500	Rome, Ga., <i>CST.</i> 6-9 a.m.; noon-3 p.m.; 6-9 p.m.	WHDL 1420	Tupper Lake, N. Y., <i>EST.</i> 7:45 a.m.-1 p.m.; 3-7:45 p.m.
WDRC 1330	Hartford, Conn., <i>EST.</i> 8 a.m.-mid.	WFEA 1430	Manchester, N. H., <i>EST.</i> 9 a.m.-11 p.m.	WHEB 740	Portsmouth, N. H., <i>EST.</i> 10 a.m.-sunset.
WDSU 1250	New Orleans, La., <i>CST.</i> 7 a.m.-11:45 p.m.	WFI 560	Philadelphia, Pa., <i>EST.</i> 6:45-9 a.m.; 9:45-11 p.m.; 1-2 p.m.; 3:4-3:30 p.m.; 6 p.m.-mid.	WHEC 1430	Rochester, N. Y., <i>EST.</i> 8 a.m.-mid.
WDZ 1070	Tuscola, Ill., <i>CST.</i> 7 a.m.-4:30 p.m.	WFIW 940	Hopkinsville, Ky., <i>CST.</i> 6 a.m.-3 p.m.; 5 p.m.-mid.	WHFE 1500	Kosciusko, Miss.
WEAF 660	New York City, <i>EST.</i> 6:45 a.m.-1 a.m. next day.	WFLA 620	Clearwater, Fla., <i>EST.</i> 7:15 a.m.-mid.	WHET 1210	Troy, Ala., <i>CST.</i> 6-8 a.m.; 11 a.m.-5 p.m.
WEAI 1270	Ithaca, N. Y. Variable.	WFOX 1400	Brooklyn, N. Y., <i>EST.</i> 1:30-3:45 p.m.; 10:30-mid.	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.
WEAN 780	Providence, R. I., <i>EST.</i> 7:30 a.m.-1 a.m. next day.	WGAL 1310	Lancaster, Pa., <i>EST.</i> 10 a.m.-noon; 1:30-6 p.m.	WHIS 1410	Bluefield, W. Va., <i>EST.</i> 8-9 a.m.; noon-2 p.m.; 6-8 p.m.
WEAO 570	Columbus, Ohio, <i>EST.</i> 9-11 a.m.; 1-3 p.m.	WGAR 1450	Cleveland, Ohio, <i>EST.</i> 6 a.m.-1 a.m. next day.	WHK 1390	Cleveland, Ohio, <i>EST.</i> 7 a.m.-mid.
WEBC 1290	Superior, Wis., <i>CST.</i> 7 a.m.-11 p.m.	WGBB 1210	Freeport, N. Y., <i>EST.</i> 7-9 p.m.	WHN 1010	New York City, <i>EST.</i> 1:30-5:30 p.m.
WEBQ 1210	Harrisburg, Ill., <i>CST.</i> 6-9 a.m.; noon-4 p.m.; 7:30-9 p.m.	WGBF 530	Evansville, Ind., <i>CST.</i> 6:30 a.m.-3 p.m.; 4-6:45 p.m.; 8-11 p.m.	WHO 1000	Des Moines, Iowa.
WEBR 1310	Buffalo, N. Y., <i>EST.</i> 7 a.m.-2 a.m. next day.	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.	WHOM 1450	Jersey City, N. J., <i>EST.</i> 8-10 a.m.; 3-9 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 a.m.-4:30 p.m.; 2:30-4 p.m.; 4:30 p.m.- 1 a.m.
WEEI 590	Boston, Mass., <i>EST.</i> 6:45 a.m.-mid.	WGES 1360	Chicago, Ill., <i>CST.</i> 8 a.m.-12:30 p.m.; 6:15-8:30 p.m.	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., <i>EST.</i> 7 a.m.-2 p.m.; 5-11 p.m.	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 p.m.	WGL 1370	Fort Wayne, Ind., <i>CST</i> 6:15 a.m.-9:30 p.m.	WIBG 930	Glenside, Pa., <i>EST.</i> Daybreak to sunset.
WEHS 1420	Cicero, Ill., <i>CST.</i> 4-6 p.m.	WGN 720	Chicago, Ill., <i>CST.</i> 7:30 a.m.-1:30 a.m. next day.	WIBM 1370	Jackson, Mich., <i>CST.</i> 7:30 a.m.-8:15 p.m.; 11 p.m.- mid.
WELL 1420	Battle Creek, Mich.	WGR 550	Buffalo, N. Y., <i>EST.</i> 7:30 a.m.-mid.	WIBO 560	Chicago, Ill., <i>CST.</i> 6:30 a.m.-mid.
WENG 1420	Americus, Ga., <i>EST.</i> 7 a.m.-2 p.m.; 4 p.m.-sunset.	WGST 890	Atlanta, Ga., <i>CST.</i> 7 a.m.-11 p.m.	WIBU 1210	Poyntette, 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.; 8:30-10:1 a.m. next day.	WGY 790	Schenectady, N. Y., <i>EST.</i> 6:45 a.m.-1 a.m. next day.	WIBW 560	Topeka, Kans., <i>CST.</i> 6 a.m.-mid.
WERE 1420	Eric, Pa., <i>EST.</i> 8 a.m.-1:30 p.m.; 3:45-10:45 p.m.	WHA 940	Madison, Wis., <i>CST.</i> 8 a.m.-3:30 p.m.	WIBX 1200	Utica, N. Y.
WESG 1370	Glens Falls, N. Y.	WHAD 1120	Milwaukee, Wis., <i>CST.</i> 9:30-10:15 a.m.; 3-4 p.m.; 8:30- 9:30 p.m.	WICC 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.	WHAM 1150	Rochester, N. Y., <i>EST.</i> 7:45 a.m.-mid.	WIL 1200	St. Louis, Mo., <i>CST.</i> 7-9:45 a.m.; 11:15 a.m.-mid.
WEW 760	St. Louis, Mo., <i>CST.</i> 8 a.m.-5 p.m.	WHAS 820	Louisville, Ky., <i>CST.</i> 7 a.m.-mid.	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.	WHAT 1310	Philadelphia, Pa., <i>EST.</i> 9 a.m.-noon; 1-2 p.m.; 8:30-mid.	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.; 5:30-6 p.m.; 9-11:30 p.m.	WHAZ 1300	Troy, N. Y., <i>EST.</i> Mid-1 a.m.	WINS 1180	New York City, <i>EST.</i> 7 a.m.-10:15 p.m.
WFAB 1300	New York City	WHB 860	Kansas City, Mo., <i>CST.</i> 6 a.m.-sunset.	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.	WHBC 1200	Canton, Ohio, <i>EST.</i> 6-9 a.m.; noon-3 p.m.; 6-9 p.m.	WIP 610	Philadelphia, Pa., <i>EST.</i> 9 a.m.-mid.
WFAN 610	Philadelphia, Pa., <i>EST.</i> 9 a.m.-mid.	WHBD 1370	Mt. Orab, Ohio, <i>EST.</i> 7-11 a.m.; noon-5 p.m.; 6-9 p.m.	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., <i>EST.</i> 9 a.m.-noon; 9 p.m.-mid.	WHBF 1210	Rock Island, Ill., <i>CST.</i> 10 a.m.-3 p.m.; 5 p.m.-mid.	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.
WFBE 1200	Cincinnati, Ohio, <i>EST.</i> 7 a.m.-11 p.m.	WHBL 1410	Sheboygan, Wis., <i>CST.</i> 7-10 a.m.; 12:30-3 p.m.; 6-8 p.m.; 10 p.m.-mid.	WJAC 1310	Johnstown, Pa., <i>EST.</i> 8:30-10:30 a.m.; 4:30-7 p.m.
WFBG 1310	Altoona, Pa., 10:30 a.m.-4:30 p.m.; 7-10:30 p.m.	WHBQ 1370	Memphis, Tenn., <i>CST.</i> 7:55 a.m.-10:30 p.m.	WJAG 1060	Norfolk, Neb., <i>CST.</i> 6 a.m.-sunset.
WFBL 1360	Syracuse, N. Y., <i>EST.</i> 7:30 a.m.-mid.			WJAR 890	Providence, R. I., <i>EST.</i> 8 a.m.-mid.
				WJAS 1290	Pittsburgh, Pa., <i>EST.</i> 7:30 a.m.-11:30 p.m.

WJAX 900 Jacksonville, Fla., <i>EST.</i> 7 a.m.-11 p.m.	WLAP 1200 Louisville, Ky., <i>CST.</i> 7 a.m.-11 p.m.	WMSG Noon-5 p.m. 1350 New York City, <i>EST.</i>
WJAY 610 Cleveland, Ohio, <i>EST.</i> 6 a.m.-6:45 p.m.	WLB 1250 Minneapolis, Minn., <i>CST.</i>	WMT 600 Waterloo, Iowa, <i>CST.</i> 7 a.m.-11 p.m.
WJBC 1200 LaSalle, Ill., <i>CST.</i> 8-9 a.m.; 10 a.m.-12:30 p.m.; 3:30-6:30 p.m.	WLBC 8-9 p.m. 1310 Muncie, Ind., <i>CST.</i>	WNAC 1230 Boston, Mass., <i>EST.</i> 8 a.m.-1 a.m. next day.
WJBI 1210 Red Bank, N. J., <i>EST.</i> 5-7 p.m.	WLBK 1420 Kansas City, Kans., <i>CST.</i>	WNAD 1010 Norman, Okla. 7:15-9:15 p.m.
WJBK 1370 Detroit, Mich., <i>EST.</i> 7 a.m.-11 p.m.	WLB 7 a.m.-11 p.m. 900 Stevens Point, Wis., <i>CST.</i>	WNAX 570 Yankton, S. D., <i>CST.</i> 6 a.m.-mid.
WJBL 1200 Decatur, Ill., <i>CST.</i> 6:30-8 a.m.; 9-10 p.m.; 12:30-3 p.m.; 6:30 p.m.-mid.	WLBL 8 a.m.-3:30 p.m. 1260 Erie, Pa., <i>EST.</i>	WNB 1500 Binghamton, N. Y., <i>EST.</i> 7 a.m.-10 p.m.
WJBO 1420 New Orleans, La.	WLBW 820 Bangor, Maine, <i>EST.</i> 8 a.m.-1 a.m. next day	WNBH 1310 New Bedford, Mass., <i>EST.</i>
WJBU 1210 Lewisburg, Pa., <i>EST.</i> Noon-2 p.m.; 4-6 p.m.	WLBZ 8:30 a.m.-mid. 1370 Lexington, Mass., <i>EST.</i>	WNBO 8:30 a.m.-1:10 p.m.; 3-11 p.m. 1200 Washington, Pa., <i>EST.</i>
WJBW 1200 New Orleans, La., <i>CST.</i> 8 a.m.-noon; 4-8 p.m.	WLEY 1370 Lexington, Mass., <i>EST.</i> Noon-3 p.m.; 6-9 p.m.	WNBR 1430 Memphis, Tenn., <i>CST.</i> 7:30 a.m.-12:30 p.m.; 3-10:15
WJBY 1210 Gadsden, Ala., <i>CST.</i> 6 a.m.-12:10 next day.	WLIT 503 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.	WNB 1200 Carbondale, Pa.
WJDX 1270 Jackson, Miss., <i>CST.</i> 6:15-10 a.m.; 11:30 a.m.-10 p.m.	WLOE 1500 Boston, Mass., <i>EST.</i> 10 a.m.-1:30 p.m.; 4:30-10 p.m.	WNBX 1260 Springfield, Vt., <i>EST.</i> 6 a.m.-sunset.
WJEG 1210 Hagerstown, Md.	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.	WNBZ 1290 Saranac Lake, N. Y.
WJEQ 1370 Williamsport, Pa.	WLTH 1400 Brooklyn, N. Y., <i>EST.</i> 11:30 a.m.-1:30 p.m.; 7:30-9	WNJ 1450 Newark, N. J., <i>EST.</i> 10 a.m.-noon; 9 p.m.-mid.
WJJD 1130 Chicago, Ill., <i>CST.</i> 6 a.m.-8:30 p.m.	WLVA 1370 Lynchburg, Va., <i>EST.</i> 8-11 a.m.; 1-6 p.m.	WNOX 560 Knoxville, Tenn., <i>CST.</i> 6:45 a.m.-11 p.m.
WJKS 1360 Gary, Ind., <i>CST.</i> 12:30-6:15 p.m.; 8:30 p.m.-mid.	WLW 700 Cincinnati, Ohio, <i>EST.</i> 6:30 a.m.-1 a.m. next day.	WNYC 570 New York City, <i>EST.</i> 11 a.m.-noon; 6-9:30 p.m.
WJMS 1420 Ironwood, Mich., <i>CST.</i> 7 a.m.-2:30 p.m.; 4:30 p.m.-sun- set.	WLWL 1100 New York City, <i>EST.</i>	WOAI 1190 San Antonio, Tex., <i>CST.</i> 6:30-9:45 a.m.; 11:15 a.m.-3 p.m.; 4:45-10:45 p.m.
WJR 750 Detroit, Mich., <i>EST.</i> 6:00 a.m.-1 a.m. next day.	WMAC 570 Syracuse, N. Y.	WOAX 1280 Trenton, N. J., <i>EST.</i> Noon-2 p.m.
WJSV 1460 Washington, D. C., <i>EST.</i> 7:30 a.m.-1 a.m. next day.	WMAL 630 Washington, D. C., <i>EST.</i> 8 a.m.-mid.	WOBU 580 Charleston, W. Va., <i>EST.</i> 9 a.m.-noon; 2-4 p.m.; 8:30 p.m.- mid.
WJTL 1370 Atlanta, Ga., <i>CST.</i> 6:45 a.m.-mid.	WMAQ 670 Chicago, Ill., <i>CST.</i> 7 a.m.-1 a.m. next day.	WOC 1000 Davenport, Iowa, <i>CST.</i> 7 a.m.-11 p.m.
WJW 1210 Akron, Ohio, <i>EST.</i> 8 a.m.-10 p.m.	WMAS 1420 Springfield, Mass., <i>EST.</i> 7:45 a.m.-mid.	WOCL 1210 Jamestown, N. Y., <i>EST.</i> Noon-mid.
WJZ 760 New York City, <i>EST.</i> 7:30 a.m.-1 a.m. next day.	WMAZ 1180 Macon, Ga., <i>EST.</i> 7 a.m.-9:30 p.m.	WODA 1250 Paterson, N. J.
WKAQ 1240 San Juan, P. R., <i>AST.</i> 2:30-4:30 p.m.; 6:30-10 p.m.	WMBC 1420 Detroit, Mich., <i>EST.</i> 7:30 a.m.-mid.	WODX 1410 Mobile, Ala., <i>CST.</i> 9 a.m.-4 p.m.; 5:30-9 p.m.
WKAR 1040 E. Lansing, Mich., <i>CST.</i> Noon-12:30 p.m.	WMBD 1440 Peoria, Ill., <i>CST.</i> 6-9:30 a.m.; 1-2:30 p.m.; 8 p.m.- mid.	WOI 640 Ames, Iowa, <i>CST.</i> 6:30 a.m.-1:30 p.m.
WKAV 1310 Laconia, N. H., <i>EST.</i> 9 a.m.-1 p.m.; 3-8 p.m.	WMBG 1210 Richmond, Va., <i>EST.</i> 7:30 a.m.-1:30 p.m.; 5-11 p.m.	WOKO 1430 Albany, N. Y., <i>EST.</i> 9 a.m.-1 a.m. next day.
WKBB 1310 Joliet, Ill., <i>CST.</i> 8-11 a.m.; noon-3 p.m.; 8 p.m.- mid.	WMBH 1420 Joplin, Mo., <i>CST.</i>	WOL 1310 Washington, D. C., <i>EST.</i> 7 a.m.-1 p.m.; 3-9 p.m.
WKBC 1310 Birmingham, Ala.	WMBI 1080 Chicago, Ill., <i>CST.</i> 7-7:30 a.m.; 10:30-11:30 a.m.; noon-1:30 p.m.; 3-4:30 p.m.; 5:30-8 p.m.	WOMT 1210 Manitowoc, Wis., <i>CST.</i> 7 a.m.-9 p.m.
WKBF 1400 Indianapolis, Ind., <i>CST.</i> 6:30 a.m.-1:15 p.m.; 4:15-11	WMBQ 1500 Brooklyn, N. Y., <i>EST.</i> 9-11 a.m.; 8-10 p.m.	WOOD 1270 Gd. Rapids, Mich., <i>CST.</i> 7 a.m.-mid.
WKBH 1380 LaCrosse, Wis., <i>CST.</i> 7:30 a.m.-10 p.m.	WMBR 1370 Tampa, Fla., <i>EST.</i> 6:45 a.m.-10 p.m.	WOPI 1500 Bristol, Tenn., <i>EST.</i> 7 a.m.-2 p.m.; 4-9 p.m.
WKBI 1420 Cicero, Ill., <i>CST.</i> 1:30-4 p.m.; 9-11 p.m.	WMC 780 Memphis, Tenn., <i>CST.</i> 7 a.m.-11 p.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.; 11-mid.
WKBK 570 Youngstown, Ohio, <i>EST.</i> 7-9 a.m.; 11 a.m.-1 p.m.; 3-mid.	WMCA 570 New York City, <i>EST.</i> 8-11 a.m.; noon-6 p.m.; 9:30 p.m.-2 a.m.	WOR 1170 Newark, N. J., <i>EST.</i> 6:45 a.m.-mid.
WKB 1310 Galesburg, Ill.	WMIL 1500 Brooklyn, N. Y., <i>EST.</i> 2-6 p.m.	WORC 1200 Worcester, Mass., <i>EST.</i> 8 a.m.-mid.
WKBV 1500 Connerville, Ind., <i>CST.</i> 10 a.m.-noon; 6-10 p.m.	WMMN 890 Fairmont, W. Va., <i>EST.</i> 7 a.m.-9 p.m.	WORK 1000 York, Pa., <i>EST.</i> 7:55 a.m.-sunset.
WKBW 1480 Buffalo, N. Y., <i>EST.</i> 9:15 a.m.-1 a.m. next day.	WMPC 1500 Lapeer, Mich., <i>EST.</i> 10 a.m.-2 p.m.; 3:30-6 p.m.; 7-10:30 p.m.	WOS 630 Jefferson City, Mo., <i>CST.</i>
WKBZ 1500 Ludington, Mich., <i>CST.</i> 9:15 a.m.-9:30 p.m.	WMRJ 1210 Jamaica, N. Y., <i>EST.</i>	WOV 1130 New York City, <i>EST.</i> 8 a.m.-6 p.m.
WKFI 1210 Greenville, Miss., <i>CST.</i> 7 a.m.-2 p.m.; 4-9 p.m.		WOW 590 Omaha, Neb., <i>CST.</i> 6:15-10 a.m.; 10:45 a.m.-3:30 p.m.; 4-9 p.m.; 10-11:30 p.m.
WKJC 1200 Lancaster, Pa., <i>EST.</i> 11 a.m.-3 p.m.; 6-8 p.m.		WOWO 1160 Fort Wayne, Ind., <i>CST.</i> 7:30 a.m.-7:45 p.m.; 9:15 p.m.- mid.
WKRC 550 Cincinnati, Ohio, <i>EST.</i> 6:45 a.m.-mid.		
WKY 900 Oklahoma City, Okla., <i>CST.</i> 6:30 a.m.-11:30 p.m.		
WKZO 590 Kalamazoo, Mich., <i>CST.</i> 6:30 a.m.-8:15 p.m.		
WLAC 1470 Nashville, Tenn., <i>CST.</i>		

WPAD 1420 Paducah, Ky., <i>CST.</i> 7-9:30 a.m.; 11 a.m.-2 p.m.; 4-10:30 p.m.	WRVA 1110 Richmond, Va., <i>EST.</i> 7 a.m.-3 p.m.; 4:15 p.m.-mid.	WTOC 1260 Savannah, Ga., <i>EST.</i> 7 a.m.-mid.
WPAP 1010 New York City, <i>EST.</i> 11 p.m.-1 a.m.	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 p.m.
WPAW 1210 Providence, R. I., <i>EST.</i> 9 a.m.-1:45 p.m.; 3 p.m.-mid.	WSAJ 1310 Grove City, Pa. Silent.	WTSL 1310 Laurel, Miss.
WPCC 560 Chicago, Ill. Silent.	WSAN 1440 Allentown, Pa., <i>EST.</i> 5 p.m.-mid.	WWAE 1200 Hammond, Ind., <i>CST.</i> 7 a.m.-8:30; 11-1 p.m.; 4-9 9-11:30 p.m.
WPCB 810 New York City, <i>EST.</i> 8 a.m.-sunset.	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.
WPEN 1500 Philadelphia, Pa., <i>EST.</i> 7:30 a.m.-10:30 p.m.	WSAZ 580 Huntington, W. Va., <i>EST.</i> 6-9 a.m.; noon-2 p.m.; 4-8:30 7 a.m.-mid.	WWL 850 New Orleans, La., <i>CST.</i> 8 a.m.-3:30 p.m.
WPFB 1370 Hattiesburg, Miss., <i>CST.</i> 7 a.m.-2 p.m.; 4-9 p.m.	WSB 740 Atlanta, Ga., <i>CST.</i> 7 a.m.-mid.	WWNC 570 Asheville, N. C., <i>CST.</i> 7 a.m.-mid.
WPG 1100 Atlantic City, N. J., <i>EST.</i> 8:15 a.m.-6 p.m.; 8 p.m.-1 a.m. next day.	WSBC 1210 Chicago, Ill.	WWRL 1500 Woodside, N. Y., <i>EST.</i> 9-9 a.m.; 11 a.m.-noon; 1-2 p.m.; 6-8 p.m.
WPHR 1200 Petersburg, Va., <i>EST.</i> 7-11 a.m.; noon-5 p.m.; 6-9 p.m.	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.
WPOR 780 Norfolk, Va.	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.
WPRO 1210 Providence, R. I., <i>EST.</i> 9 a.m.-1:45 p.m.; 3 p.m.-mid.	WSFA 1410 Montgomery, Ala., <i>CST.</i> 6:30 a.m.-sunset; 9-11 p.m.	WXYZ 1240 Detroit, Mich., <i>EST.</i> 7:30 a.m.-mid.
WPSC 1230 State College, Pa., <i>EST.</i> 11:45 a.m.-12:15 p.m.; 4-5:30 6:45 a.m.-8 p.m.	WSIX 1210 Springfield, Tenn., <i>CST.</i> 6 a.m.-3 p.m.; 6-9 p.m.	XEA 1155 Guadalajara, Mex., <i>CST.</i> 11 a.m.-noon; 2-3 p.m.; 5-11 8 a.m.-mid.
WPTF 680 Raleigh, N. C., <i>EST.</i> 6:45 a.m.-8 p.m.	WSJS 1310 Winston-Salem, N. C., <i>EST.</i> 8 a.m.-mid.	XEB 1030 Mexico City, Mex., <i>CST.</i> 8 a.m.-mid.
WQAM 560 Miami, Fla., <i>EST.</i> 7 a.m.-mid.	WSM 650 Nashville, Tenn., <i>CST.</i> 6:30 a.m.-mid.	XEC 1000 Toluca, Mex.
WQAN 880 Scranton, Pa., <i>EST.</i> 12:30-1:30 p.m.; 4:30-5:30 p.m.; 8-11 p.m.	WSMB 1320 New Orleans, La., <i>CST.</i> 7 a.m.-mid.	XED 965 Reynosa, Mex.
WQAO 1010 New York City. Silent.	WSMK 1380 Dayton, Ohio, <i>EST.</i> 7 a.m.-8 p.m.; 10 p.m.-mid	XEE 1000 Oaxaco, Mex.
WQBC 1360 Vicksburg, Miss., <i>CST.</i> 7:30 a.m.-2:30 p.m.; 5-10 p.m.	WSOC 1210 Gastonia, N. C., <i>EST.</i> 8 a.m.-10 p.m.	XEF 735 Villa Acuna, Mex., 24 hours daily.
WQDM 1370 St. Albans, Vt., <i>EST.</i> 8-9 a.m.; 11 a.m.-2 p.m.	WSPA 1420 Spartanburg, S.C., <i>EST.</i> 7:30 a.m.-11 p.m.	XEFA 1250 Mexico City, Mex.
WQDX 1210 Thomasville, Ga.	WSPD 1340 Toledo, Ohio, <i>EST.</i> 7:30 a.m.-mid.	XEFB 1315 Monterrey, Mex., <i>CST.</i> 11 a.m.-2 p.m.; 6-10 p.m.
WRAK 1370 Williamsport, Pa., <i>EST.</i> 8:30 a.m.-2:30 p.m.; 4:30-10:30 7:30 a.m.	WSUI 880 Iowa City, Iowa, <i>CST.</i> 9 a.m.-10; 11-12:30; 2-4; 6-10 p.m.; mid.-4 a.m.	XEFC 1050 Merida, Mex.
WRAM 1370 Wilmington, N. C., <i>EST.</i> 7:30 a.m.-3 p.m.; 6:30-11 p.m.	WSUN 620 St. Petersburg, Fla., <i>EST.</i> 7:15 a.m.-mid.	XEFD 1020 Tijuana, Mex.
WRAW 1310 Reading, Pa., <i>EST.</i> 7-9:30 a.m.; 6 p.m.-mid.	WSVS 1370 Buffalo, N. Y., <i>EST.</i> 8:30 a.m.-10 a.m.; 2-3 p.m.	XEFE 1000 Laredo, Mex.
WRAX 1020 Philadelphia, Pa., <i>EST.</i> 7 a.m.-sunset.	WSYB 1500 Rutland, Vt., <i>EST.</i> 10 a.m.-1 p.m.; 5-9 p.m.	XEFI 1000 Chihuahua, Mex.
WRBL 1200 Columbus, Ga., <i>CST.</i> 7 a.m.-9 p.m.	WSYR 570 Syracuse, N. Y., <i>EST.</i> 7 a.m.-3 p.m.; 4-11 p.m.	XEFO 940 Mexico City, Mex., <i>CST.</i> 2-3 p.m.; 7-11 p.m.
WRBX 1410 Roanoke, Va., <i>EST.</i> 9 a.m.-noon; 3-6 p.m.; 8 p.m.-1 9 a.m.-1 a.m. next day.	WTAD 1440 Quincy, Ill., <i>CST.</i> 9:30 a.m.-1 p.m.; 2:30-8 p.m.	XEFS 1000 Queretaro, Mex., <i>CST.</i> 7:30-10:30 p.m.
WRC 950 Washington, D. C., <i>EST.</i> 6:45 a.m.-1 a.m. next day.	WTAG 580 Worcester, Mass., <i>EST.</i> 8 a.m.-11:15 p.m.	XEFZ 1370 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.	WTAM 1070 Cleveland, Ohio, <i>EST.</i> 6:30 a.m.-1 a.m. next day.	XEG 1070 Mexico City, Mex.
WRDW 1500 Augusta, Ga., <i>EST.</i> 8 a.m.-2 p.m.; 5-11 p.m.	WTAQ 1330 Eau Claire, Wis., <i>CST.</i> 7 a.m.-8 p.m.	XEH 1132 Monterrey, Mex., <i>CST.</i> 9 a.m.-1:30 p.m.; 6-mid.
WREC 600 Memphis, Tenn.	WTAR 780 Norfolk, Va., <i>EST.</i> 7 a.m.-mid.	XEI 1310 Morelia, Mex., <i>CST.</i> 2-3:30 p.m.; 8:30-10 p.m.
WREN 1220 Lawrence, Kans., <i>CST.</i> 7 a.m.-mid.	WTAW 1120 College Station, Texas. Silent.	XEJ 1000 Juarez, Mex., <i>CST.</i> 11 a.m.-4 p.m.; 6-11 p.m.
WRHM 1250 Minneapolis, Minn., <i>CST.</i> 6:15-9:45 a.m.; 10:35 a.m.-8 p.m.; 9 p.m.-1 a.m.	WTAX 1210 Springfield, Ill.	XEK 990 Mexico City, Mex.
WRJN 1370 Racine, Wis., <i>CST.</i> 8 a.m.-10:30 p.m.	WTBD 1420 Cumberland, Md., <i>EST.</i> 7 a.m.-1:30 p.m.; 2:30-8 p.m.	XEL 1000 Sthillo, Mex., <i>CST.</i> 11 a.m.-1 p.m.; 6-9 p.m.
WRNY 1010 New York City.	WTEL 1310 Philadelphia, Pa., <i>EST.</i> 7 a.m.-9; 11-1 p.m.; 5-8:30 p.m.	XEM 1300 Tampico, Mex.
WROL 1310 Knoxville, Tenn., <i>CST.</i> 7 a.m.-10 p.m.	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 p.m.
WRR 1280 Dallas, Texas, <i>CST.</i> 6:30 a.m.-11 p.m.	WTIC 1060 Hartford, Conn., <i>EST.</i> 7 a.m.-4 p.m.	XENT 1115 Nuevo Laredo, Mex.
WRUF 830 Gainesville, Fla., <i>EST.</i> 8 a.m.-6:45 p.m.	WTJS 1310 Jackson, Tenn., <i>CST.</i> 7 a.m.-1 p.m.; 3-9 p.m.	XEP 1400 Laredo, Mex.
	WTMJ 620 Milwaukee, Wis., <i>CST.</i> 6:45 a.m.-mid.	XEQ 750 Juarez, Mex., <i>MST.</i> 9 a.m.-2 p.m.; 5-11 p.m.
		XER 735 Villa Acuna, Mex. 24 hours daily
		XES 1055 Tampico, Mex., <i>CST.</i> 9-10:30 a.m.; noon-2 p.m.; 7:15- 10 p.m.
		XET 690 Monterrey, Mex., <i>CST.</i> 9 a.m.-2 p.m.; 6-10 p.m.
		XETA 1140 Mexico City, Mex.
		XETB 1380 Torreon, Mex.
		XETC 1000 Jalapa, Mex.
		XETF 730 Veraacruz, Mex., <i>CST.</i> 6-8 a.m.; noon-2 p.m.; 7 p.m.- mid.

XETG	1000	Torreon, Mex.	KEY	1000	Merida, Mex.	10-AT	1155	Trail, B. C.
XETQ	1230	Mexico City, Mex.	KEZ	780	Mexico City, Mex.	10-BI	1200	Prince Albert, Sask., <i>MST.</i>
XETR	610	Mexico City, Mex.	XFC	810	Aguascalientes, Mex.			Noon-1 p.m.; 6-8 p.m.
XEU	1007	Veracruz, Mex., <i>CST.</i>	XFF	875	Chihuahua, Mex.	10-BP	1199	Wingham, Ont., <i>EST.</i>
		7-8 a.m.; 10-11 a.m.; noon-3 p.m.; 6-mid.	XFG	683.3	Mexico City, Mex.			noon-1 p.m.
XEV	1000	Puebla, Mex.	XFX	867	Mexico City, Mex.	10-BQ	1200	Brantford, Ont., <i>EST.</i>
XEW	910	Mexico City, Mex.	10-AB	1200	Moose Jaw, Sask., <i>MST.</i>			6 p.m.-7; 8-10 p.m.
XEX	1210	Mexico City, Mex.			6-7 p.m.	10-BU	1200	Canora, Sask.
			10-AK	1200	Stratford, Ont., <i>EST.</i>			
					6-8 p.m.			

SHORT WAVE STATIONS *of* UNITED STATES

According to Frequencies in Megacycles (thousands of kilocycles) and Wave Lengths in Meters. Time is given in EST. The Foreign Short Wave Stations were given by Countries in the September issue and by frequencies in October.

Call	Megs.	Meters	Call	Megs.	Meters
Tuscaloosa—ALABAMA					
WSDE	3.490	85.91	Oakland		
WSDE	5.630	53.25	KFO	3.170	94.58
Klingman—ARIZONA					
KGPL	3.100	96.72	KFO	5.600	53.54
KGPL	5.560	53.92	W6XAJ	17.300	17.34
Bakersfield—CALIFORNIA					
KGPS	2.414	124.27	Palo Alto		
KQX	3.179	94.30	W6XD	27.800	10.78
KQX	5.657	53.00	Pasadena		
Kekeley			KGJX	1.712	175.23
KSW	2.422	123.86	Sacramento		
Bolinás			KFM	3.178	94.30
KEL	6.860	43.70	KFM	5.657	53.00
lar J1AA.			San Francisco		
KEE	7.715	38.86	KGPD	1.558	192.4
larly.			KGPD	2.470	121.50
KEJ	9.012	33.27	San Jose		
larly.			KGPM	2.470	121.50
KEZ	10.410	28.80	San Mateo		
KKQ	11.945	25.10	W6XQ	24.000	12.48
KKQ	11.970	25.05	Tulare		
larly.			WPDA	2.414	124.27
KKX	13.690	21.90	Vallajo		
larly.			KGPG	2.422	123.86
KKZ	14.150	21.17	Denver—COLORADO		
KQJ	18.000	16.67	2.422	123.86	P. S.
ke.?)			Washington—DISTRICT OF COLUMBIA		
Burbank			WPDW	2.408	124.50
KEU	3.189	94.30	W3XZ	4.795	62.53
KEU	5.657	53.00	W3XX	8.650	34.66
Dixon			W4XG		
KWY	7.562	39.65	Miami—FLORIDA		
nights.			8.650	34.66	
KWX	7.605	39.42	Atlanta—GEORGIA		
nights.			2.414	124.27	P. S.
KWV	10.830	27.68	WQDP	3.490	85.91
irregular.			WQDP	5.630	53.23
KKW	13.776	21.77	S. A. T.		
larly.			Honolulu—HAWAII		
KWU	15.344	19.54	KGPO	2.450	122.40
2 till 7 p. m.			KEQ	6.888	43.54
KWO	15.410	19.46	nights.		
2 to 7 p. m.			KDK-KKH	7.518	39.89
Fresno			p. m. to 2 a. m.		
KGZA	2.415	124.17	KIO	11.690	25.65
KGT	3.178	94.30	to 8 p. m., irregularly (11670 kc.?)		
Los Angeles			KKP	16.024	18.71
KGPL	1.710	175.23	to 7 p. m.		
KSI	3.100	96.72	Bolsa—IDAHO		
KSI	5.560	53.92	3.170	94.58	B. A. T.
			5.600	53.54	B. A. T.

Call	Megs.	Meters	Call	Megs.	Meters
Aurora—ILLINOIS			Detroit—MICHIGAN		
WQDU	3.170	94.58 B. A. T.	WKDT	1.596	187.97 P. S.
WQDU	5.600	53.64 B. A. T.	WCK	2.414	124.27 P. S. WCK, Belle
Chicago			WPDX		Island
WPDB	1.712	175.23 P. S.	East Lansing		
WPDC			WRDS	1.574	189.50 P. S.
WPDD			Flint		
W9XL	3.076	97.53	WPDF	2.442	122.80 P. S.
W9XL	3.256	92.24	Grand Rapids		
W9XL	4.795	62.53	WPEB	2.442	122.80 P. S.
W9XF	6.020	49.80	Grosse Pointe		
Downers Grove; Relays WENR 2:30 to 7 p. m.; 8:30 p. m. to 1 a. m.			WRDR	2.414	124.27 P. S.
W9XAA	6.072	49.34	Highland Park		
a. m. to 9 p. m.; Wed., Sat., 8:30 a. m. to 9 p. m.			WMO	2.414	124.27 P. S.
Tues., Thurs., 8:30 a. m. to 8 p. m. (6080 kc.)			Lansing		
W9XL	8.650	34.66	WPDL	2.442	122.80 P. S.
W9XAA	11.840	25.33	Anoka—MINNESOTA		
Relays WCFL irregularly 7 to 8 a. m., 1 to 2, 4 to 5:30; 6 to 7:30 p. m.			W9XL	6.425	46.66
W9XF	6.095	49.18	W9XL	12.850	23.35
Labor, Downers Grove; 3:30 p. m. to 1 a. m. daily.			W9XL	17.300	17.33
W9XAA	18.105	16.57	Minneapolis		
Relays WCFL; testing mornings (17780 kc.?)			KGFB	2.416	124.17 P. S.
W9XF	20.500	14.63	St. Paul		
Elgin			WPDS	2.416	124.17 P. S.
W9XAM	4.795	62.53	Jackson—MISSISSIPPI		
Time signals.			WSDB	3.490	85.91 S. A. T.
Fort Wayne—INDIANA			WSDB	5.630	53.25 S. A. T.
WPDZ	2.470	121.40 P. S.	Kansas City—MISSOURI		
Indianapolis			KGPE	2.422	123.86 P. S.
WMDZ	2.422	123.86 P. S.	KST	3.100	96.72 T. A. T.
WAEA	3.100	96.72 T. A. T.	KST	5.560	53.92 T. A. T.
WAEA	5.560	53.92 T. A. T.	St. Louis		
Kokomo			KGPC	1.712	175.23 P. S.
WPDZ	2.470	121.40 P. S.	KGTR	3.100	96.72 T. A. T.
Richmond			KGTR	5.560	53.92 T. A. T.
WPDH	2.422	123.86 P. S.	Lincoln—NEBRASKA		
Cedar Rapids—IOWA			KRF	3.170	94.58 B. A. T.
KGQZ	2.470	121.40 P. S.	KRF	5.600	53.54 B. A. T.
Davenport			North Platte		
KGPN	2.470	121.40 P. S.	KMR	3.170	94.58 B. A. T.
Des Moines			KMR	5.600	53.54 B. A. T.
KGPN	2.502	119.71 P. S.	Omaha		
KQM	3.170	94.58 B. A. T.	KGPI	2.470	121.40 P. S.
KQM	5.600	53.54 B. A. T.	KMP	3.170	94.58 B. A. T.
Iowa City			KMP	5.600	53.54 B. A. T.
KQQ	3.170	94.58 B. A. T.	Eiko—NEVADA		
KQQ	5.600	53.54 B. A. T.	KKO	3.170	94.58 B. A. T.
Sioux City			KKO	5.600	53.54 B. A. T.
KGPK	2.470	121.40 P. S.	Las Vegas		
Wichita—KANSAS			KG TJ	3.100	96.72 T. A. T.
KGPK	2.450	122.40 P. S.	KG TJ	5.560	53.92 T. A. T.
KGTD	3.100	96.72 T. A. T.	Reno		
KGTD	5.560	53.92 T. A. T.	KJE	3.170	94.58 B. A. T.
Louisville—KENTUCKY			KJE	5.600	53.54 B. A. T.
WPDE	2.422	123.86 P. S.	Ampere—NEW JERSEY		
Shreveport—LOUISIANA			W2XCU	12.850	23.33
WGPY	1.575	191.60 P. S. (1574 kc.)	W2XCU	17.300	17.33
KGUK	3.490	85.91 S. A. T.	W3XAL	17.772	16.87 7 a. m. to 3 p. m.
KGUK	5.630	53.25 S. A. T.	Bound Brook		
Portland—MAINE			W3XAL	6.096	49.18 Sat. 5 to 11 p. m.;
W1XAB	4.700	63.79	National Broadcasting Co. (6100 keys.?)		
Annapolis—MARYLAND			W3XL	6.386	46.96 National Broadcasting
NSS	12.045	24.89	Co. Relays WJZ irregularly. (6425 keys.?)		
Time signals 9:57 to 10 p. m.			Camden		
W3XE	8.650	34.62	WAE	3.100	96.72 T. A. T.
12:15 to 1:15 p. m.;			WAE	5.560	53.92 T. A. T.
10:15 to 11:15 p. m.			Deal		
Arlington—MASSACHUSETTS			WOO	3.124	96.03
WPED	1.712	175.23 P. S.	WOO	4.116	72.87
Boston			WOO	6.515	46.02
WEY	1.558	192.55 P. S. Marine	WND	6.753	44.40
W1XAL	11.790	25.42 Testing irregularly.	WOO	8.030	34.74
Frammingham			WNC	9.750	30.75
WMP	1.574	190.60 P. S.	WND	13.400	22.37
Somerville			Transatlantic telephony		
WPEH	1.712	175.23 P. S.	WNC	14.480	20.70
Springfield			WND	18.350	16.35
W1XAZ	9.570	31.33	Transatlantic telephony.		
Relays WBZ.					

Call	Megs.	Meters		Call	Megs.	Meters		
WNC	19.220	15.62		Richmond Hill				
WMI	19.850	15.05		W2XE	6.120	48.99	Columbia Broadcast-	
W2XDJ	21.420	14.00		System.			Relays WABC 7:30 a. m. to 2 a. m.;	
Lawrenceville				W2XE	11.840	25.34	Columbia Broadcast-	
WNB	5.868	51.09	Phones Bermuda	System			7:30 a. m. to 2 a. m. Sunday, 8 a. m. to 1 a. m.	
			nights.	W2XE	15.280	19.62	Sun., 8 a. m. to 1 a. m.	
WOA	6.752	44.41	Phones VRT nights.	Rochester				
WOB	6.752	44.41	Phones England nights	WPDV	2.458	122.05	P. S.	
WNA	9.162	32.72	Phones England nights	Rocky Point				
WOF	9.742	30.77	Phones England nights	WEJ	} 6.732	44.54	Testing irregularly, evenings	
WON	9.862	30.40	Phones England nights	W2XBJ				
WLO	10.540	28.44		WEM	} 7.396	40.54	Testing irregularly, evenings	
WOK	10.540	28.44	Phones LSN evenings.	W2XBJ				
WMA	13.380	22.40	Phones England	WEL				
			daylight.	W2XBJ	8.945	33.52	Testing irregularly, evenings	
WMF	14.464	20.73	Phones England	WES	} 9.448	31.74	Testing irregularly, evenings	
			daylight.	W2XBJ				
WMN	14.854	20.56	Phones England	WIY	} 13.860	21.63	Testing irregularly.	
			daylight.	W2XBJ				
WLK	16.260	18.44	Phones England.	WKU	} 14.796	20.27	Testing In daytime.	
WLO	16.300	18.39		W2XBJ				
WLA	18.340	16.35	Phones England 8 a.	WEP	} 18.976	31.60	Testing irregularly, evenings.	
				W2XBJ				
WKF	m. to 4 p. m.	19.206	15.61	Phones England 8 a.	WKV	} 19.016	Testing mornings.	
WKN	m. to 4 p. m.	19.816	15.13	Phones England 8 a.	W2XBJ			
WKA	m. to 4 p. m.	21.195	14.24	Phones England 8 a.	Schenectady			
WLO	m. to 4 p. m.	21.400	14.01	American Telephone & Telegraph Co.; transatlantic phone.	W2XAC	8.600	34.50	
WKK		21.425	14.01	Phones 8 a. m.- 4 p. m.	W2XAF	9.530	31.46	Relays WGY daily 5 to 11 p. m.
Newark				W2XAD	15.320	19.57	Daily, 3 to 6 p. m.	
WAEF	3.100	96.72	T. A. T.	Sat. & Sun. 1 to 6 p. m. (15337 kays.)	W2XK	17.300	17.34	General Electric Co. Tues., Thur., Sat. 12 to 5 p. m.
WAEF	5.560	53.92	T. A. T.					
WSDC	5.657	53.00	A. A. S.					
New Brunswick				Syracuse				
W2XAO	17.850	16.80		WPEA	2.458	122.05	P. S.	
W2XB	34.600	8.67						
W2XBC	51.400	5.83		Charlotte—NORTH CAROLINA				
Oceangate				WPDV	2.458	122.05	P. S.	
WOO	4.748	63.13	Phones ships irregular-ly.					
WOO	8.562	35.02	Phones ships irregular-ly.	Akron—OHIO				
W2XDO	8.630	34.74		WPDO	2.458	122.05	P. S.	
WOO	12.836	23.36	Phones ships irregular-ly.	Cincinnati				
WOO	17.110	17.52	Phones ships irregular-ly.	WKDU	1.712	175.15	P. S.	
W2XDO	17.110	17.52	Amer. Tel. & Tel. Co.	W8XAL	6.060	49.48	Crosley Radio Corp. Relays WLW 6:30 to 10 a. m., 1 to 3 p. m.; 6 p. m. to 2 a. m. Daily. Sunday after 1 p. m.	
Passaic				Cleveland				
WPDJ	2.414	124.17	P. S.	WRBH	2.450	122.40	P. S.	
				WSDQ	5.657	53.00	A. A. S.	
				Columbus				
				WPDI	2.430	123.45	P. S.	
				WAEB	3.100	96.72	T. A. T.	
				WAEB	5.560	53.92	T. A. T.	
				Dayton				
				WPDW	2.414	124.17	P. S.	
				W8XAG	8.650	34.66		
				W8XL	17.300	17.34		
				Toledo				
				WRDQ	2.470	121.40	P. S.	
				Youngstown				
				WPDG	2.458	122.05	P. S.	
				Okiahoma City—OKLAHOMA				
				KGPH	2.450	122.40	P. S.	
				Tulsa				
				KGPO	2.450	122.40	P. S.	
				KSY	3.100	96.72	T. A. T.	
				KSY	5.560	53.92	T. A. T.	
				Medford—OREGON				
				KGE	3.178	94.30	U. A.	
				KGE	5.657	53.00	U. A.	
				Portland				
				KGPP	2.422	123.86	P. S.	
				KVO	3.178	94.30	U. A.	
				KVO	5.657	53.00	U. A.	
				W7XA	17.300	17.33		

Call	Megs.	Meters	
Harrisburg—PENNSYLVANIA			
WAED	3.100	96.72	T. A. T.
WAED	5.560	53.92	T. A. T.
Philadelphia			
WPDP	2.470	121.40	P. S.
W3XZU	9.585	31.28	Daily, ex. Thurs., Fri. 3 p. m. to midnight.
Pittsburgh			
WPDU	1.712	175.15	P. S.
WAEC	3.100	96.72	T. A. T.
WAEC	5.560	53.92	T. A. T.
W8XK	6.140	48.83	Westinghouse Elec. & Mfg. Co. Relays KDKA Tues., Thur., Sat., Sun. 4 p. m. to midnight.
W8XK	11.872	25.25	Westinghouse Elec. & Mfg. Co., 3 to 9 p. m. Sat. night Arctic programs. Television, Mon. & Fri. 2:30 p. m., 60 lines, 1200 r. p. m. (11,881 kc.).
W8XK	14.480	20.70	
W8XK	15.204	19.72	6:30 a. m. to 4 p. m.
W8XK	17.780	16.87	Westinghouse Elec. & Mfg. Co.
W8XK	21.540	13.92	6:30 a. m. to 11 a. m.
W8XI	31.000	9.67	
Manila—PHILIPPINE ISLANDS			
KZRM	6.140	48.83	Radio Corp. of Philip-pines.
NPO	8.872	33.78	Time signals 9:55 to 10 p. m. (Cavite, Manila).
K1XR	9.560	31.36	
KZRM	9.570	31.33	Radio Corp. of Philip-pines.
K1XR	11.440	26.20	11:15 a. m. to 12:15 p. m.; 1 a. m. to 3 a. m.; 5 to 10 a. m.
K1XR	11.820	25.39	11:15 a. m. to 12:15 p. m.; 1 a. m. to 3 a. m.; 5 to 10 a. m.
KZRM	11.840	25.33	Radio Corp. of Philip-pines.
KA1XR	12.245	24.49	
K1XR	12.250	24.46	5 to 9 a. m., ex. Sunday
Memphis—TENNESSEE			
WPEC	2.470	121.40	P. S.
Ahlens—TEXAS			
KGUL	3.490	85.91	S. A. T.
KGUL	5.630	53.25	S. A. T.
Amarillo			
KSW	3.100	96.72	T. A. T.
KSW	5.560	53.92	T. A. T.

Call	Megs.	Meters	
Beaumont			
KGPI	1.712	175.15	P. S.
Big Springs			
KGUG	3.490	85.91	S. A. T.
KGUG	5.630	53.25	S. A. T.
Dallas			
KVP	1.712	175.15	P. S.
KGUF	3.490	85.91	S. A. T.
KGUF	5.630	53.25	S. A. T.
El Paso			
KGUA	3.490	85.91	S. A. T.
KGUA	5.630	53.25	S. A. T.
Fort Worth			
KGPR	1.712	175.23	P. S.
KGUC	3.490	85.91	S. A. T.
KGUC	5.630	53.25	S. A. T.
Houston			
KGZB	1.712	175.23	P. S.
Salt Lake City—UTAH			
KGPR	2.470	121.40	P. S.
KQD	3.170	94.58	B. A. T.
KQD	5.600	53.54	B. A. T.
Arlington—VIRGINIA			
NAA	4.105	73.03	Time signals 9:57 to 10 p. m.; 11:57 to noon.
NAA	8.872	33.60	Time signals 9:57 to 10 p. m.; 2:57 to 3 p. m.
NAA	12.045	24.07	Time signals 11:45 to noon.
NAA	16.060	18.05	U. S. Navy time sig-nals 11:57 to noon.
Pasco—WASHINGTON			
KDD	3.170	94.58	B. A. T.
KDD	5.600	53.54	B. A. T.
Seattle			
KGPA	2.414	124.27	P. S.
KZJ	3.178	94.30	U. A.
KZJ	5.657	53.00	U. A.
W7XC	17.300	17.33	
Milwaukee—WISCONSIN			
WPKD	2.450	122.40	P. S.
Cheyenne—WYOMING			
KQE	3.170	94.58	B. A. T.
KQE	5.600	53.54	B. A. T.
Rock Springs			
KQC	3.170	94.58	B. A. T.
KQC	5.600	53.54	B. A. T.

PRINCIPAL BROADCASTING STATIONS *of the* WORLD ¹²⁷

Fill in your dial numbers and you will then know where these foreign stations should be received on your set

500				
Keys.	Power	Call	City	Country
551	1000	RW17	Kazan	Russia
554	4000	IIPA	Palermo	Italy
554	10000	SBD	Sundsvall	Sweden
560	7500	2CO	Corowa	Australia
560	1200	RW41	Veliki Oustug	Russia
563	1700		Munich	Germany
569	3000		Ljubljana	Jugoslavia
571	10000	YLZ	Riga	Latvia
580	600	VLZL	Hobart	Australia
581			Vienna	Austria
587	1000	RV50	Armavir	Russia
588	750		Bloemfontaine	So. Africa
589	3600	ON4RB	Brussels	Belgium

600				
Keys.	Power	Call	City	Country
589	15000		Velthem	Belgium
590		LP6	Buenos Aires	Argentina
590	10000	JOAK	Tokyo	Japan
599	8500	IMI	Milan	Italy
600	1750		Colombo	Ceylon
600	120	ZL2ZK	Wanganui	New Zealand
600	20	RA51	Ulyanovsk	Russia
604	1200	RW31	Ivanovo-	
			Vosnesensk	Russia
606	500	XGZ	Nanking	China
608	500	LKT	Trondelag	Norway
608	1200	RW32	Stavropol	Russia
610	1000	VK3AR	Melbourne	Australia

Keys.	Power	Call	City	Country	Keys.	Power	Call	City	Country
616	5000	OKP	Prague	Czechoslovakia	750	10000	JOBK	Osaka	Japan
621	1200	RW40	Gonel	Russia	750	1000	VQ7LO	Nairobi	Kenya
625	1000	CMAB	Santiago	Chile	750	700	RA8	Bogorodsk	Russia
625	500	XOL	Tientsin	China	750	750	EAJ2	Madrid	Spain
628	500	JOJK	Niigata	Japan	752	1000	G5SC	Glasgow	Scotland
628	25000	G5GB	Davenport	England	759	500	LT4	Monteideo	Argentina
628	30000		Huddersfield	England	759	12000		Bucharest	Rumania
630	50	ZL1ZH	Hamilton	New Zealand	760	2500	VK1QG	Bribane	Australia
630	4000	RW52	Simferopol	Russia	760	1000	JQAK	Dairen, Man-	
635	17000		Langenburg	Germany				churia	Japan
635	500	JONK	Nagano	Japan	770	8000		Toulouse	France
635	7500	5CK	Crystal Brook	Australia	770	1700		Frankfort	Germany
636	1200	RW23	Groznyi	Russia	770	200	VUM	Madras	India
636	300	RW28	Vladivostok	Russia	770	10000	JOHK	Sendai	Japan
638	50	PRAM	Amparo	Brazil	770	10000	RW36	Arkhangelsk	Russia
640	1200	RW56	Penza	Russia	770	600	SBF	Ostersund	Sweden
644	3000	YN	Lyon	France	770	500	CX12	Monteideo	Uruguay
645	1200	RW48	Tomsk	Russia	777	500		Rheims	France
650	500	ZL4YA	Dunedin	New Zealand	778	500	JOPK	Shizuoka	Japan
650	1000	RW33	Krasnodar	Russia	779			Lwow	Poland
650	1000	CX6	Monteideo	Uruguay	779	500		Wilna	Poland
653	60000		Beromunster	Switzerland	789	500	LU2	Bahia Blanca	Argentina
662	500		Klagenfurt	Austria	790	500	LR1	Buenos Aires	Argentina
662	250	PIB	Danzig	Danzig	790	10000	JOGK	Kumamoto	Japan
662	200	IBZ	Bolzano	Italy	790	1500	OAX	Lima	Peru
662	500	LKD	Bodo	Norway	793	1000	RW37	Moscow	Russia
662	800	LKP	Porsgrund	Norway	793	300	RW39	Moscow	Russia
662	110	LKM	Tromsoe	Norway	796	1000	RW37	Makhatch Kala	Russia
662	1000	EAJ8	San Sebastian	Spain	797	1000	GZYZ	Manchester	England
662	150	SCT	Upsala	Sweden					
665	1000	VK2FC	Sydney	Australia					
667	15000	ZTJ	Johannesburg	So. Africa					
668	4000	RW13	Odessa	Russia					
670	5000	LP4	Buenos Aires	Argentina	800	1000	VK3LO	Melbourne	Australia
670	10000	JFAK	Tokyo	Japan	804	1000	CMAC	Santiago	Chile
671	1000	FPTT	Paris	France	806	1700		Hamburg	Germany
671	300	LKA	Aalesund	Norway	810	1000	LT1	Concordia	Argentina
671	900	LKN	Notodden	Norway	810	3000	VUC	Calcutta	India
671	170	LKR	Rjukan	Norway	810	10000	JOCK	Nagoya	Japan
674	50	PRAH	Bahia	Brazil	810		HS7PJ	Bangkok	Siam
674	1000	COHB	Harbin	China	810	1000	ZTC	Cape Town	So. Africa
680	75000	IIRO	Rome	Italy	810	1000	CX14	Monteideo	Uruguay
680	500	JOLK	Fukuoka	Japan	811	1200	RV26	Artemovsk	Russia
685	1000	LP8	LaPlata	Argentina	815	1000	PRAE	Sao Paulo	Brazil
685	2000	HJN	Bogota	Colombia	815		EAJ5	Seville	Spain
687	1200	RW46	Russia	Russia	820	20	3ZE	Greymouth	New Zealand
689	1000	CAB	Canton	China	820	20	ZL3ZR	Greymouth	New Zealand
689	60	SCN	Malmberget	Sweden	820		RV42	Nokolaev	Russia
689	1000	SBA	Stockholm	Sweden	824	2400		Algiers	Algeria
690	1000	VK6WF	Perth	Australia	824	1000	LKB	Bergen	Norway
690	1000	JODK	Keijo, Chosen	Japan	825	1500	F8GC	Paris	France
690	1200	RA44	Tver	Russia	830	500	LR5	Buenos Aires	Argentina
696			Belgrade	Jugoslavia	830	10000	JOJK	Sapporo	Japan

800

800	1000	VK3LO	Melbourne	Australia
804	1000	CMAC	Santiago	Chile
806	1700		Hamburg	Germany
810	1000	LT1	Concordia	Argentina
810	3000	VUC	Calcutta	India
810	10000	JOCK	Nagoya	Japan
810		HS7PJ	Bangkok	Siam
810	1000	ZTC	Cape Town	So. Africa
810	1000	CX14	Monteideo	Uruguay
811	1200	RV26	Artemovsk	Russia
815	1000	PRAE	Sao Paulo	Brazil
815		EAJ5	Seville	Spain
820	20	3ZE	Greymouth	New Zealand
820	20	ZL3ZR	Greymouth	New Zealand
820		RV42	Nokolaev	Russia
824	2400		Algiers	Algeria
824	1000	LKB	Bergen	Norway
825	1500	F8GC	Paris	France
830	500	LR5	Buenos Aires	Argentina
830	10000	JOJK	Sapporo	Japan
830	25	Z2P	Waikoa	New Zealand
833	60000		Stuttgart	Germany
837	700	LEF	Fredrikstad	Norway
838	4000	RW57	Tiraspol	Russia
840	10000		Helsingfors	
			Fredriksberg	Finland
840	12000	F3ICD	Saigo	Fr. Indo-China
840	3000	VUB	Bombay	India
842	250	PRAF	Para	Brazil
842	30000	G2LO	London	England
845	1500	ZBW	Victoria	Hong Kong
850	10000	JOJK	Hiroshima	Japan
850		CX16	Monteideo	Uruguay
851	7000		Graz	Austria
855	1000	VK2BL	Sydney	Australia
856	1200	RV36	Leningrad	Russia
856	2500	HSP1	Bangkok	Siam
857	200	PRAJ	Juiz de Fora	Brazil
857	500	PRAC	Rio de Janeiro	Brazil
860	7500	EAJ1	Barcelona	Spain
865	1200	RW24	Piatigorsk	Russia
867	6000	SPIT	Strasbourg	France
870	10000	LR2	Buenos Aires	Argentina
870			Shanghai	China
870	10000	JOAK	Tokyo	Japan
878	36000	OKB	Brno	Czechoslovakia
880	600	VK4BC	Brisbane	Australia
880	200	VK6PR	Perth	Australia
881	500	LV7	Tucuman	Argentina
882	50	PRAN	Curitiba	Brazil

700

700	500	JOKK	Okayama	Japan
704	4000	RW20	Kharkov	Russia
706	3000	PRAP	Pernambuco	Brazil
706	3000	PRAG	Porto Alegre	Brazil
708	1500	EAJ7	Madrid	Spain
710	5000	LS1	Buenos Aires	Argentina
710	300	JOJK	Kanazawa	Japan
714	200	RA32	Saratov	Russia
716	1700		Berlin	Germany
720	5000	ZL2YA	Wellington	New Zealand
723	2000	COMK	Mukden	China
724	2000		Rabat	Morocco
726	1500	2RN	Dublin	Irish Free State
730	5000	LT6	San Juan	Argentina
730	1000	VK5CL	Adelaide	Australia
730	1000	RW55	Pokrovsk	Russia
730	1000	CX10	Monteideo	Uruguay
731	1000	ZTD	Durban	South Africa
734	10000		Katowice	Poland
735	2200		Tartu	Estonia
741	1000	JOSK	Kokura	Japan
743	25000		Sottens	Switzerland
748	1200	RW51	Nalchik	Russia
750	7000	LR7	Buenos Aires	Argentina
750	1000	PRAA	Rio de Janeiro	Brazil
750	250		Mont-de-Marsan	France

Keys.	Power	Call	City	Country
882	100	VUL	Lahore	India
882	400	HS11PJ	Bangkok	Siam
887	1000	PRAS	Santos Miramar	Brazil
890	51	VK7HO	Hobart	Australia
890	250	CX18	Montevideo	Uruguay
895	250	XGY	Hangchow	China
896	1500	.....	Poznan	Poland

Keys.	Power	Call	City	Country
1040	130	G2DE	Dundee	Scotland
1040	350	G2EH	Edinburgh	Scotland
1040	130	G5SX	Swansea	Wales
1041	50	10PI	Port Pirie	Australia
1049	200	.....	Montpelier	France
1050	50	VK2CA	Canberra	Australia
1050	150	ZL2ZF	Palmerston	New Zealand

900

900	5000	1YA	Auckland	New Zealand
901	500	.....	Paris	France
905	1500	INA	Naples	Italy
909	.....	CT1GL	Lisbon	Portugal
910	2000	VKARK	Rockhampton	Australia
910	500	ZL1YA	Auckland	New Zealand
911	1000	LV2	Cordoba	Argentina
914	1500	.....	Grenoble	France
920	50	PRAD	Pelotas	Brazil
923	1700	.....	Breslau	Germany
923	.....	HS7PJ	Bangkok	Siam
930	100	VK3UZ	Melbourne	Australia
930	2000	CX20	Montevideo	Uruguay
932	500	SCC	Falun	Sweden
932	10000	SBB	Goteborg	Sweden
937	500	PRAB	Rio de Janeiro	Brazil
937	1000	XOPP	Peking	China
937	.....	HSP3	Bangkok	Siam
938	50	XGAH	Shanghai	China
940	.....	5ZA	Apia	Samoa
941	300	.....	Dresden	Germany
941	5000	LR3	Buenos Aires	Argentina
950	600	VK2GB	Sydney	Australia
950	500	.....	Marselles	France
950	300	.....	Bremen	Germany
952	50	NKS	Shanghai	China
959	1500	IGE	Genoa	Italy
959	1500	.....	Krakow	Poland
960	100	VK5DN	Adelaide	Australia
960	.....	YV1BC	Caracas	Venezuela
968	2000	.....	Paris	France
968	1000	G5WA	Cardiff	Wales
970	200	VK3BO	Sydney	Australia
970	250	CX22	Montevideo	Uruguay
977	700	.....	Zagreb	Jugoslavia
980	500	ZL3YA	Christchurch	New Zealand
983	25	CNO	Casablanca	Morocco
986	1500	.....	Bordeaux	France
990	10000	LR4	Buenos Aires	Argentina
990	5000	LR6	Buenos Aires	Argentina
995	1000	G2BD	Aberdeen	Scotland

1000

1000	50	VK4GR	Toowoomba	Australia
1000	50	PRAY	Mogydas Cruzes	Brazil
1000	350	.....	The Hague	Netherlands
1000	50	.....	Pretoria	So. Africa
1004	7000	PFBI	Amsterdam	Netherlands
1004	6400	PH9	Hilversum	Netherlands
1006	500	PRAR	Amsterdam	Netherlands
1010	200	VK3HA	Sao Paulo	Brazil
1010	300	VK6ML	Hamilton	Australia
1010	300	VK6ML	Perth	Australia
1010	1000	CX24	Montevideo	Uruguay
1013	10000	.....	Tallinn	Estonia
1013	8500	ITO	Turin	Italy
1016	250	CMAO	Santiago	Chile
1022	500	.....	Limoses	France
1023	2500	OKK	Kosice	Czechoslovakia
1025	50	VK2UE	Sydney	Australia
1030	10000	LR9	Buenos Aires	Argentina
1031	750	.....	Viborg	Finland
1032	500	YR	Lyon	France
1034	100	CMAJ	Valparaiso	Chile
1040	1000	G6BM	Bournemouth	England
1040	130	G6KH	Hull	England
1040	130	G2LS	Leeds-Bradford	England
1040	130	G6LV	Liverpool	England
1040	130	G5FY	Plymouth	England
1040	160	G6FL	Sheffield	England
1040	130	G6ST	Stoke-on-Trent	England

1050	2000	CX26	Montevideo	Uruguay
1053	500	.....	Kharbarovsk	Russia
1056	2000	CT1AA	Lisbon	Portugal
1056	10	CT1AN	Lisbon	Portugal
1056	150	CT1BO	Lisbon	Portugal
1056	.....	CT1DH	Lisbon	Portugal
1056	30	CT1EB	Lisbon	Portugal
1058	500	.....	Innsbruck	Austria
1058	600	.....	Berlin	Germany
1058	600	.....	Magdeburg	Germany
1058	600	.....	Stettin	Germany
1058	50	SCR	Uddevalla	Sweden
1058	300	SCU	Varberg	Sweden
1060	50	ZZO	Palmerston	New Zealand
1067	1000	.....	Copenhagen	Denmark
1069	10000	LS5	Buenos Aires	Argentina
1070	300	VK2KY	Sydney	Australia
1070	10	PRAI	Ribeirao Preto	Brazil
1070	1500	2KY	Sydney	Australia
1071	500	EAR5	Las Palmas	Canary Islands
1071	50	XGX	Shanghai	China
1075	100	LT9	Rosario	Argentina
1075	12000	OKR	Bratislava	Czechoslovakia
1080	2000	LT3	Rosario	Argentina
1080	20	VK7LA	Launceston	Australia
1080	50	VK3SH	Swan Hill	Australia
1080	200	.....	Caen	France
1080	20	ZL4ZB	Dunedin	New Zealand
1080	45	ZL4ZM	Dunedin	New Zealand
1080	30	ZL4ZO	Dunedin	New Zealand
1080	300	4ZW	Dunedin	New Zealand
1080	5	4ZF	Dunedin	New Zealand
1085	60000	.....	Heilsberg	Germany
1085	1700	.....	Konigsberg	Germany
1088	5	KSMS	Shanghai	China
1090	.....	PRAQ	Bello Horizonte	Brazil
1090	18	ZL1ZJ	Auckland	New Zealand
1090	40	ZL1ZR	Auckland	New Zealand
1091	250	.....	Angers	France

1100

1100	20	VK7LA	Launceston	Australia
1100	7.5	ZL2ZU	Dannevirke	New Zealand
1103	1500	.....	Rennes	France
1110	200	VK2HD	Newcastle	Australia
1110	50	PRAZ	France	Brazil
1112	300	.....	Kaiserslautern	Germany
1112	150	SCF	Hudkivall	Sweden
1112	250	SCO	Norrkoping	Sweden
1112	250	SCQ	Trollhattan	Sweden
1118	1500	.....	Valencia	Spain
1119	10000	EZJ13	Barcelona	Spain
1119	30	EJ19	Oviedo	Spain
1120	10	ZL2ZO	Palmerston	New Zealand
1120	100	ZL2ZW	Wellington	New Zealand
1125	125	VK2UW	Sydney	Australia
1130	250	CX30	Montevideo	Uruguay
1132	500	.....	Lille	France
1135	300	VK6ML	Perth	Australia
1140	65	LP2	Villaguay	Argentina
1140	.....	CW30	Tucuman	Uruguay
1145	600	VK4BC	Brisbane	Australia
1145	25	VK3YB	Melbourne	Australia
1147	110	ZL2ZM	Gisborne	New Zealand
1148	1000	G5NO	Newcastle	England
1150	10000	LR8	Buenos Aires	Argentina
1150	30000	G2LO	London	England
1150	20	ZL2ZJ	Gisborne	New Zealand
1153	1000	PRAK	Rio de Janeiro	Brazil
1153	7500	.....	Kallundborg	Denmark
1157	5600	.....	Gleiwitz	Germany
1160	50	VK7HO	Hobart	Australia
1160	8	ZL4ZI	Invercargill	New Zealand

Keys.	Power	Call	City	Country	Keys.	Power	Call	City	Country
1160	16	ZLAZP	No. Invercargill	New Zealand	1300	50	VK3BA	Ballarart	Australia
1166	10000	SBH	Horby	Sweden	1300	30	CW38	Salto	Uruguay
1170	25	IZB	Auckland	New Zealand	1301	150	SCA	Boras	Sweden
1170	200	VK4TO	Townsville	Australia	1301	200	SCG	Halsingborg	Sweden
1170	20	.....	Campinas	Brazil	1301	60	SBC	Malmö	Sweden
• 1170	200	CX32	Montevideo	Uruguay	1301	20	SCS	Uma	Sweden
1175	1500	MRD	Toulouse	France	1304	.....	HKF	Bogota	Colombia
1180	100	VK3DB	Melbourne	Australia	1310	300	VK5AD	Aelaide	Australia
1180	2.5	ZL2ZD	Masterton	New Zealand	1319	300	.....	Aix la Chapelle	Germany
1180	30	CW3Z	Salso	Uruguay	1319	1700	.....	Cologne	Germany
1184	2300	.....	Leipzig	Germany	1319	600	.....	Muenster	Germany
• 1190	10000	LS2	Buenos Aires	Argentina	1320	50	VK2AY	Albury	Australia
• 1191	100	VK4MK	Mackay	Australia	1320	26	ZL1ZJ	Auckland	New Zealand
1190	13	ZL1ZQ	Auckland	New Zealand	1330	50	VK2MO	Bunnadah	Australia
1195	200	EAJ18	Almeria	Spain	1330	15	ZL2ZI	Hastings	New Zealand
1199	5000	.....	Bordeaux	France	1330	20	Z2L	Hastings	New Zealand
1200					1330	100	CX40	Montevideo	Uruguay
1200	200	VK5KA	Aelaide	Australia	1333	100	CMAK	Santiago	Chile
1200	500	.....	Toulon	France	1337	1000	6CK	Cork	Irish Free State
1200	500	TFA	Reykjavik	Iceland	1340	50	VK2XN	Lismore	Australia
1200	250	ZL3ZC	Christchurch	New Zealand	• 1340	30	CW40	Paysandu	Uruguay
• 1210	1000	2CH	Sydney	Australia	• 1344	10000	LOAA	Luxemburg	Luxemburg
1210	5	ZL2ZE	Ekatehuana	New Zealand	• 1349	3000	LS6	Buenos Aires	Argentina
1210	10	ZL1ZM	Manurewa	New Zealand	• 1350	200	VK3KZ	Melbourne	Australia
• 1210	50	CX34	Montevideo	Uruguay	1350	1000	CPX	LaPaz	Bolivia
• 1211	15000	1TR	Trieste	Italy	• 1360	400	LT2	Concordia	Argentina
1219	100	ON4FO	Brussels	Belgium	1360	50	Z2R	Nelson	New Zealand
1219	400	ON4RG	Ghent	Belgium	1360	25	4ZR	Balutula	New Zealand
1219	200	ON4RW	Liege	Belgium	• 1363	.....	ZP1	Asuncion	Paraguay
1219	250	.....	Nice	France	• 1364	1000	PRAX	Rio de Janeiro	Brazil
1219	100	EAJ15	Cartagena	Spain	1364	1500	.....	Beziere	France
1220	500	.....	Linz-an-der-Donau	Austria	1364	250	.....	St. Etienne	France
1220	50	VK2MV	Moss Vale	Australia	1365	50	VK2XL	Broken Hill	Australia
1220	100	VK6KG	Kalgoorlie	Australia	1370	500	CX42	Montevideo	Uruguay
1220	.....	.....	Abo	Finland	1373	600	.....	Flensburg	Germany
1220	1500	.....	Bjorneborg	Finland	1373	250	SKC	Karlstad	Sweden
1220	750	.....	Jakobstad	Finland	1373	200	SCW	Ornskoldsvik	Sweden
1220	300	.....	Kassel	Germany	1375	100	ON4GT	Brussels	Belgium
1220	.....	.....	Bloemendaal	Netherlands	• 1386	10000	LS9	Buenos Aires	Argentina
1220	180	ZL4ZL	Dunedin	New Zealand	• 1388	500	LV5	Rosario	Argentina
1220	20	4ZW	Dunedin	New Zealand	1388	200	ON4CE	Chateleineau	Belgium
1220	200	SCB	Eskestuna	Sweden	1388	100	ON4EX	Ottomont	Belgium
1220	200	SCI	Kalmar	Sweden	1390	50	2GN	Goulburn	Australia
1220	200	SCL	Kiruna	Sweden	1391	200	SCE	Halmstad	Sweden
1220	400	SCP	Saffle	Sweden	1400				
• 1220	50	CW34	Salto	Uruguay	1400	50	VK3GL	Geelong	Australia
1224	100	CMAQ	Santiago	Chile	• 1410	20	CX44	Montevideo	Uruguay
• 1229	10000	LS8	Buenos Aires	Argentina	• 1414	100	LU1	Mar del Plata	Argentina
1230	100	ZL2YB	New Plymouth	New Zealand	• 1415	200	VK2KO	Newcastle	Australia
1238	1000	G2BE	Belfast	Ireland	1420	30	CW44	Paysandu	Uruguay
1245	2000	VK2NC	Newcastle	Australia	1420	15	1ZS	Auckland	New Zealand
1247	500	LKS	Stavanger	Norway	1425	300	3AW	Melbourne	Australia
• 1249	500	LT5	Parana	Argentina	1428	12	0A4M	Lima	Peru
1249	.....	PRP1	Oporto	Portugal	• 1435	50	VK2WL	Wollongong	Australia
1250	500	.....	Nimes	France	• 1441	1000	LT7	General Pils	Argentina
• 1250	250	CX36	Montevideo	Uruguay	• 1448	100	ON4RC	Brussels	Belgium
1256	2300	.....	Nuremberg	Germany	• 1448	3000	.....	Oporto	Portugal
1260	50	VK3WR	Wangaratta	Australia	• 1450	100	CX46	Montevideo	Uruguay
• 1260	15	ZL2ZH	Napier	New Zealand	1455	50	ON4ED	Antwerp	Belgium
• 1260	30	CW36	Salto	Uruguay	1455	25	ON4FG	Dampremy	Belgium
1265	200	SCYV	Orebro	Sweden	1455	100	ON4CE	Verviers	Belgium
• 1270	1000	2SM	Sydney	Australia	1460	50	VK2MV	Moss Vale	Australia
• 1270	1000	LS3	Buenos Aires	Argentina	• 1460	20	CW46	Tucarembó	Uruguay
1274	500	LKK	Kristianssand	Norway	1470	200	SCE	Gavie	Sweden
1277	50	RSC	Shanghai	China	1480	50	VK2AY	Albury	Australia
1280	200	VK4BK	Brisbane	Australia	1480	250	SCM	Kristinehamn	Sweden
1280	50	VK3TR	Trafalgar	Australia	• 1490	250	SCH	Jonkoping	Sweden
1290	100	CX38	Montevideo	Uruguay	• 1490	50	CX48	Montevideo	Uruguay
1292	300	.....	Kiel	Germany	1500	50	VK2MO	Gunnedah	Australia
1300					1500	130	G2LS	Leeds-Bradford	England
1300	8	Z2B	Napier	New Zealand	1500	200	3AK	Melbourne	Australia

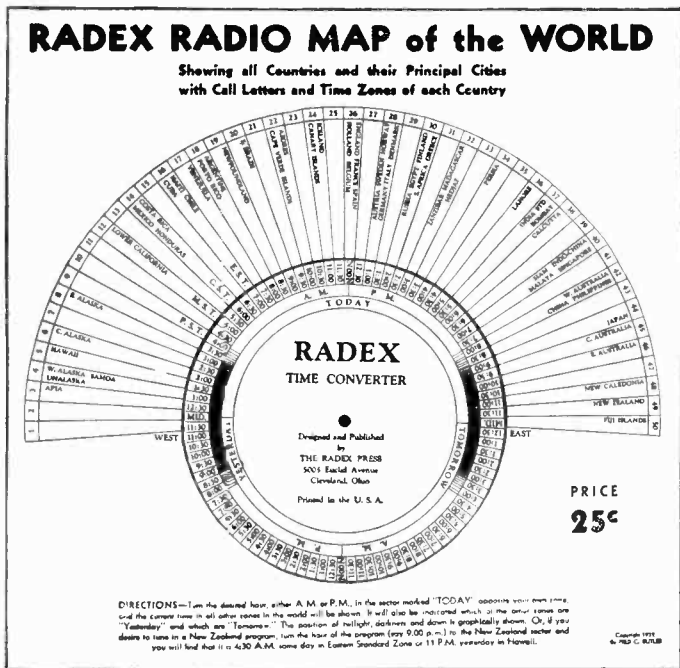
The time on the air for a different day of the week is given in each issue of RADEX. The Sunday time was in the September issue, Monday in October and Wednesday will appear next month. Back issues are available.

The December issue will have a complete list of all the short wave stations in the Dominion of Canada arranged by provinces.

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 lies.



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 22.

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 waiting, "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. 2MO, Washington, D. C.

J. E. Smith, President,
National Radio Institute,
Dept. 2MO, Washington, D. C.

Dear Mr. Smith: Send me your free book, "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.....