

THE DECEMBER 1932

# RADIO INDEX

THE ALL-WAVE RADIO MAGAZINE



The Last Word in Battery Sets  
Changing to the New Tubes  
Short Wave Stations of the World  
by Call Letters  
Wednesday Time on the Air for all  
Stations

DECEMBER 1, 1932

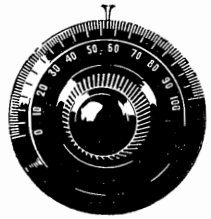


# RADIO IN DEX

Reg. U. S. Patent Office

FRED CLAYTON BUTLER

Editor and Publisher



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NINTH YEAR

NUMBER 64

Frontispiece—Margaret Schilling, popular young soprano, a guest artist on radio programs

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Published Monthly Excepting July and August

See Subscription Blank on Page 24

\$1.75 per Year

25c per Copy

### THE RADEX PRESS, INC.

Publication Office, 404 No. Wesley Ave., Mount Morris, Illinois.

Editorial and Executive Office, 5005 Euclid Ave., Cleveland, Ohio.

Entered as second-class matter November 7, 1932, at the post office at Mount Morris, Ill., under the Act of March 3, 1879. Printed in U. S. A.

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# THE LAST WORD

## *in* BATTERY SETS

By B. FRANCIS DASHIELL

**L**AST month we discussed radio receivers designed to operate on 110-volt direct current. Now we come to another kind of d.c. set—the battery receiver. There are millions of radio listeners who depend entirely upon battery operated sets, for they either live in outlying regions where a.c. or d.c. power is not available, or they have no desire to change from old, but tried and true, battery sets.

All original radio sets were battery operated, but the advent of more modern a.c. receivers relegated the earlier apparatus to the limbo of undeveloped things. Then came the new types of low-drain battery tubes and a new type of long-life A battery, and the discarding of such ancient tubes as, WD-11, WD-12, -99, -01A, -12A, -22 and -71A in dry and storage battery operated receivers. The Air Cell battery and the two-volt "30" series of tubes rescued the battery set from certain oblivion, and, now, with automatic volume control, tone control, spot and easy tuning, dynamic speakers, superheterodyne and all-wave screen-grid and pentode circuits, and other features of a.c. sets, there is little that the owner of a battery operated set does not have to satisfy his whims.

The Air Cell battery, with a potential of slightly more than two volts and a current output of about 600 amperes, a total of over 1200 watts, permits the use of many tubes in the circuit—types -30, -31, -32, -33 and -34. Some other d.c. battery sets, mostly for automobiles, use the 6.3-volts tubes—types -36, -37, -39 and LA. Nearly all new battery sets require 180 volts B battery and, in a few cases, a separate C biasing battery.

The inherent disadvantage of the battery set remains. The problem of unsightly A and B batteries must be met, usually by using a console type of cabinet, and there is the expense and nuisance of replacements from time to time. These factors are inevitable if we are to use batteries where other electric power is not available.

### Constant Voltage Necessary

The voltages of all batteries must be maintained at the correct requirements at all times for perfect reception. Distortion may be experienced, due to weakened plate voltages operating in combination with a normal C voltage. In this case it is advisable to reduce the C bias when the B battery voltage drops below the normal battery rating. Failing A batteries are quickly indicated by weak signals; defective cells in B batteries by mysterious static and crackling noises; and distortion by an improper balance between B and C battery voltages.

While space does not permit of the publication of the entire merits and qualifications of all battery sets, we have endeavored to present the important characteristics of a number of new and efficient receivers in the following paragraphs:

The Midwest Radio Corporation offers two new and guaranteed sets. One is a 6-tube superheterodyne (model B-6), and the other is a 9-tube All Wave receiver (model B-9). There is tone control, automatic volume control, dual dial tuning, dynamic speaker, and console cabinet. The small set uses three -30 tubes, one -32 and two -34s. It sells from \$22.50 to \$49.95. The larger set uses four -30 tubes, five -34s, and lists

from \$29.75 to \$59.95. There is a 30-day free trial, but batteries are not returnable.

The Lincoln Radio Corporation has a new 9-tube battery set (model SW-33) which is guaranteed All Wave receiver having an abundance of power. It uses three -30 tubes, five -32s and two -31s in push-pull. The price, with dynamic speaker and deluxe console cabinet, is \$129.00, with the set broadly guaranteed for performance.

Stewart-Warner presents its newest battery 8-tube superheterodyne receiver (model 49), with electrodynamic speaker and console cabinet. Battery replacement is reduced to the lowest minimum and the set uses the entire -30 series of 2-volt tubes with Air Cell battery. The price is \$75.95.



*Model 469 Atwater Kent Battery Console, 9-tube battery-operated superheterodyne. Uses 2-volt tubes with air-cell "A" battery.*

Atwater Kent has two cabinet sets (models 558 Compact and 469 Console) both of which use a 9-tube superheterodyne chassis and permanent magnet dynamic speaker, 4-gang condenser, automatic volume control and tone control. It contains three -34 tubes, two -32s, four -30s, and a

neon light is used as a pilot light. The compact table set lists at \$68.90 while the Console sells for \$89.75.

E. H. Scott Radio Laboratory furnishes its famous All Wave Console receiver in a newly perfected battery model covering all bands from 15 to 550 meters. It uses ten -30 tubes. It is of the same general appearance as the de luxe a.c. model, but lists at \$80.50 for the chassis alone. This set is guaranteed to bring in 10,000 miles distant stations and for five years against failure. There is a 10-day free trial for testing and comparison.

The Radio Corporation of America has a new battery receiver (model R-71) that uses the -30 types of tubes and Air Cell battery. It is an 8-tube table type superheterodyne and lists at \$62.75. Kolster Radio presents a new 9-tube Console superheterodyne set (model K-114) with their remarkable Rejctostat device. This set uses six -30 tubes and three -34s. Montgomery Ward's Air-line set in console cabinet uses four -32 tubes and one -33.

Sparks-Withington offers a new Sparton battery set (model 54) which is an 8-tube superheterodyne with super-control, a tremendous amount of clear volume, and increased battery economy. The dynamic speaker employs an oversize permanent magnet, thus reducing battery drain. The "Country Home Receiver" Console uses two -34 tubes, one -32, four -30s, and one 25-S special purpose detector-automatic volume control tube.

The Philco manufacturers have produced a table type battery set (model 37) using five tubes in superheterodyne circuit and a dynamic speaker with field strength equivalent to any a.c. speaker. The special Philco A battery is used in connection with a ballast tube to provide constant voltage. Philco tubes are used throughout—one type 15, two 32s, one 30, and one 19 push-pull pentode. It sells complete for \$55.00.

General Electric's battery set (model S-42B) is an 8-tube screen-

grid superheterodyne circuit in console cabinet. It uses three -32 tubes and five 30s. Tone control is a feature of the set which is highly sensitive and selective. The price, less batteries, is \$99.50.

Allied Radio presents two new All Wave battery sets, one of 8 tubes (model E-9764), and the other having 5 tubes (model E-9726), both with automatic volume control, noise suppressor, spot tuning and tone control. The 5-tube set is in a midget cabinet and the 8-tube in a console cabinet.

Sears, Roebuck offer the 8-tube Silvertone All Wave battery set in midget and console models, as well as a 5-tube midget of another type. The 8-tube set uses two -30 tubes, four -32s, one -33, and one -31 for filament control. There is microvision tuning, automatic volume control and constant filament voltage regulation. Complete, with guaranteed battery, at prices ranging from \$36.50 to \$59.95.

The Radolek 9-tube superheterodyne cabinet model uses six -30 tubes and three -34s. It lists complete for \$58.95. Lafayette battery receivers come in two models—6 tubes and 9 tubes. Both are furnished in Console cabinets and the smaller set uses three -34 tubes, one -30, one -31 and one -33, while the 9-tube set uses six -30 tubes and three -34s. The 6-tube set lists at \$32.00 and the 9-tube at \$43.50.

Silver Marshall's All Wave receivers (models 728SW and CB1), absolutely guaranteed for performance, are also available in battery circuits using the new 2-volt tubes and Air Cell batteries. Majestic, Stromberg-Carlson, Brunswick and General Motors do not manufacture battery receivers.

#### Battery Sets for Short Waves

In the short wave field National offers a battery set (model SW-34) using one -30 tube, two -34s and two -31s with plug-in coils covering wave ranges from 9 to 850 meters, as desired. These Thrill Boxes are particularly efficient and list at \$75.00.

A small 3-tube receiver (model DC-SW3) lists at \$55.00. Hammarlund, makers of the Comet "Pro," has no battery operated set, but the Pilot Company continues to offer its famous Super-Wasp for battery operation.

The Delco system has developed a 32-volt 6-tube receiver designed particularly to operate on the 32-volt circuit of their home and farm lighting plants. In this set the filaments of six tubes, four -36s and two -38s, are connected in series. It uses a 140-volt separate B battery.

The Crosley Corporation presents two 8-tube Air Cell battery models, "Mayor" and "Chieftain," the former cabinet a midget and the latter a console. This superheterodyne circuit has three type -32 tubes, three -30s and two -31s. There is a hair-line shadow dial with neon lamp, vernier drive, stepless tone control, and permanent magnetic dynamic speaker. The table model sells for \$59.95 and the console for \$73.50, with tubes, but less with batteries.

Other battery-operated receivers listed among the 1932-1933 lines are the following: "Lyric" made by the All-American Mohawk Corp., North Tonawanda, N. Y. "Columbia" by the Columbia Phonograph Co., Inc., 55 Fifth Ave., New York City. "Crescent" by the Crescent Radio Mfg. Co., 1026 Second Ave., Minneapolis, Minn. "Crosley" by the Crosley Radio Corp., Cincinnati, Ohio. "Gulbransen" by the Gulbransen Co., 816 N. Kedzie Ave., Chicago. "Kolster" by the Kolster Radio, Inc., 200 Mt. Pleasant Ave., Newark, N. J. "Pioneer" by the Pioneer Products Corp., Plano, Ill. "Simplex" by the Simplex-Radio Co., Sandusky, Ohio.

A special DX program for Radexers will be given by Station WJAG, Norfolk, Neb., at midnight, Friday, Dec. 9th, until 1:00 a. m. Saturday, CST., on 1060 kcs. with 1000 watts. WJAG is in the center of North American continent. Let's see how far away it can be received.

# A REAL RADIO LABORATORY

## • • • *Paradise for DXers*

**H**OW would you like to be turned loose in this home radio laboratory of Philip Cass, located ten miles outside the city of Philadelphia? This most complete DX quarters is located in a separate building near the home of Mr. Cass who is head of a large wholesale electrical supply house in Philadelphia. "We built every piece of our own equipment," writes Mr. Cass, "and do all our own experimental work. After fifteen years of this we have pretty good reproduction."

All reception on the broadcast band is on a loop antenna. The short-wave antenna is Ross flat-braid tinned, very carefully insulated at supports by glass and Wirt porcelain insulators. The aerial enters the building through isolintite tube with brass rod center having nuts at each end. A single-pole, double-throw switch cuts out the aerial as protection against lightning.

In the photograph, reading from left to right, we find first the input control and charging panel for storage battery current for lighting and heating tubes, the jack box on the wall and condenser for tuning short wave aerial and the loop aerial.

The radio apparatus on the desk is, first, single stage push-pull 112-A tube amplifier for short wave work in

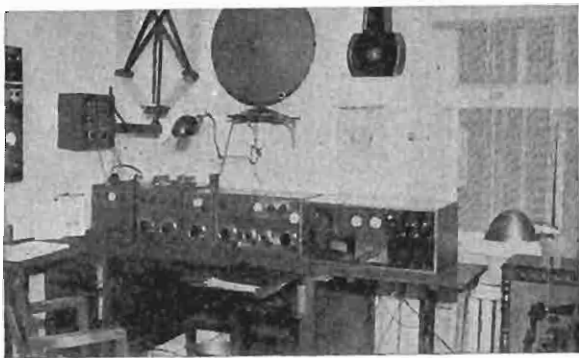
conjunction with a Western Electric speaker, all battery operated; second, the short wave adapter; third, radio frequency stage booster for incoming signals on s. w. adapter (this can also be used with long wave radio receiver); fourth, 4-D Western Electric circuit radio receiver, high-wave. All of the 4-D circuits, which were built by the Western Electric Company for use in the United States Government service, were in wooden cases and shielded on the inside. When Mr. Cass and his associate improved this circuit to reach out all over the country, they built cases of sheet copper. Fifth, a 500-ohm transformer and impedance coupled push-pull amplifier, containing two 112-A tubes and two 210 tubes in push-pull, which are operated from a special power pack which also supplies all the B voltages.

The baffle shown contains a Wright De Coster 2500-ohm d. c. speaker which is operated from the power pack. The lightning switch is shown under the table. The cabinet shown to the right of the amplifier contains a Wright De Coster speaker a. c., which is used in operation in conjunction with the d. c. speaker and gives a slight variation in tone quality.

The Victrola attachment shown in the corner contains the complete W. E. system which is used by movie houses for reproduction, at 500 o h m s through the amplifier with filters, and condensers are carried in the compartment.

Lastly, the equipment includes RADEX, the radio map of North America and the map of the world with time converter.

When would a DXer ever sleep with a room like this?



# WINS DX PRIZE *in* NEW ZEALAND

• • • *Verifies 214 American Stations*

**A** READER of this magazine, Frank H. A. Barnett, Dunedin, New Zealand, has just won the DX championship of that far-away country. Thus it seems that RADEX helps to win championships even on the other side of the world. Our readers will recall the letter from Mr. Barnett which was published in the September, 1932, issue. Notwithstanding the fact that he is located in South Island, a good 500 miles further from America than many of his competitors, Mr. Barnett won the "Radio Record" Challenge Cup with 291 verified stations to his nearest competitor's 272.

The New Zealand DX Club has a membership of over 800 and holds a DX competition every six months for the largest number of verifications from stations overseas. From the New Zealand Radio Record and the New Zealand Radio Times we quote the following regarding the contest which has just closed.

Although I have been a keen DXer since the days of crystal sets (writes Mr. Barnett in the "Radio Record") I did not trouble to write to any of the stations that I heard except a few who asked for reports.

On seeing the result of the first competition I decided to write to the stations, that I heard, for verification and having the utmost confidence in the particular make of receiver that I use, I said to myself, I'm going to get all these stations I'm hearing verified, and try for the DX Cup. It was easier said than done, and has been hard work, especially as I started late in the field. As I am generally busy during the week, it is seldom that I can, except at the week-ends, listen for DX stations.

However, I set to and listened in at

every opportunity and wrote to all the stations that I heard and was able to identify. I have to date received about 75 per cent replies from the stations that I have logged, and have about another 50 yet to come to hand, and am still logging a few, although conditions for DX reception have not been too good this last month.

The receiver I use is a Majestic Super-Hetrodyne, 7 valves, excluding rectifier and all DX-ing is done with the speaker. I have fitted output device for phones, but do not use them except if someone else wants to get some sleep, as I can hear much better off the speaker.

The set is calibrated exactly in kilocycles from 1500 k.s.'s to 550



*Ray Knight and Alice Davenport in their small-town newspaper office. The NBC Wheatana program daily except Friday and Saturday, 7:15 p. m. EST.*



K. c.'s, and has 10 k. c. selectivity on all stations except powerful locals. The calibrated dial is a big help in identifying stations, as one knows exactly the frequency, and used in conjunction with a good call book makes DX-ing much easier, 10 k. c. selectivity also enables me to get even a 100 watt American with powerful Americans on either side.

The aerial system consists of: Beverage aerial for American reception an aerial approximately 120 ft. long, average height 25 ft. for Australian, European and Eastern stations. Both are directional. The earth consists of I Laker copper earth tube driven about 3 ft. 6 in. in damp clay.

The receiver, aerial and earth are situated on a rise about 1000 feet above sea level, about 10 miles airline from Dunedin and about 1 mile from the coast. I have experimented with all kinds of aeriels and earths, and find that the ones I am now using are the most suitable for my locality. I have tried all the fancy earth systems that I have seen recommended, but find that the one described is just as good for my locality, in fact the set brings in the 100 watt Americans with the earth off, providing the aerial tuning knob is adjusted to suit, just as good as with it on.

### Their Summer Holidays

I was always of the opinion that the winter was the best time for reception of North American stations, but have changed my mind after listening during Christmas and New Year, about this time I logged about 100 new ones. During the Christmas and New Year holidays I heard 17 100 American stations and 1 100 watt Canadian, as well as dozens of higher powered ones, there was also hardly a click of "static" or interference right through the holidays.

Reception has not been of the best down here of late, only a few new ones have been logged, of course the more one gets the harder he is making it to get more new ones, as there is only a limited number of stations



*Introducing the "Three X Sisters" in vocal harmony and rapid-fire comedy skits. CBS at 7:30 p. m. EST, Mon. Wed. Fri.*

that can be heard out here, due to the conditions not being suitable for reception when they are on the air. There are also quite a number that will never be heard out here, as they either close down too early for us, or are not on the air at all at a time where reception of them is possible. DX and Test programmes help us to log stations that would not be heard on their usual programmes.

Included in Mr. Barnett's log of verified stations are 3 50-watters and 22 100-watters in the U. S. A. He pulled in one 250-watter in New Jersey, three 100-watters in Michigan, one 250 in Maryland and one 500 in New Hampshire. "Believe it or not."

If New Zealand can tune our stations in, we can tune theirs. Use the RABEX Time Converter for ascertaining the time to tune.

# ON RIDING A HOBBY ●●●

By THE EDITOR

**I** PITY the man who grows old without a hobby. Can anything be more pathetic than a man or woman growing old and just sitting around? No matter if that hobby be merely collecting cigar bands or match-package covers, the interest of it will grip a man and give him a joy and zest in living. While many people make some game like golf or bridge or solitaire their hobby, perhaps the most nearly universal hobby takes the form of collecting something or other. This seems to be an inherited trait because it shows itself so early in life. Did a boy or girl ever live who didn't make a collection of some thing or other?

If their secret lives were known, we would undoubtedly find that many men famous in public life, the arts or business were enthusiastic collectors. Only the other day I was reading a statement by a very famous man of letters regarding philately in which he said in effect: "Some men try to kid themselves that they are collecting postage stamps because it gives them an insight into history or biography; why not let's be honest and admit that we collect stamps because it is fun?" Again I was reading of a millionaire who has a wood-working shop in his house in which he spends much of his time cutting out puzzles on a scroll-saw.

What more intriguing hobby could there be than that which our radio makes possible for which we have no fancy name like philately or numismatics but only the simple code, DX. What greater thrill than picking up a station which we never heard before and for which we may have been trying for months? Can any collector get such a kick out of a mere stamp or coin? No other hobby has such an intimate contact with life as radio. Most collectors are gathering dead things but the DXer collects bits of life.

This magazine receives and publishes many interesting records of achievements in DXing but occasionally we receive letters which give a glimpse of the humanities of radio, of its influence upon the lives of people. Here is a letter from a boy whose mother adds this postscript: "This letter is written to you by a sixteen-year-old boy who, because of a physical handicap, has never attended school but has educated himself practically with the radio." We cannot publish all the letter but the quotations we are making will give a glimpse of what radio means to this young man and how well he has profited by what it has taught.

"I am writing to tell of what little luck I've had—it isn't anything to boast of—but nevertheless, here it is. First, 410 stations comprise my log which originated in December, 1929,



*You'd never guess this one because it is Miss Jane Dillon, famous character actress, as "John the Hired Man." In the NBC "Thru Lighted Windows."*



Meet "The Hoosier Editor" nee Frederick Landis, brother of Judge Kenesaw Mountain Landis. CBS Sundays at 2:45 p. m. EST.

including 150 100-watters or less with KUJ, KWG, CHML and CMJH. Hope to reach the 500 mark before the current campaign comes to an end. Although I have never had anything farther than British Columbia, I hope to cross the waters via radio during the present winter. My first issue of RADEX dates back to No. 44 and it has been coming into this household consistently ever since. I get almost as great a kick out of reading the DX department as I do in DXing myself and also enjoy reading 'Betty's' pages. I have tried all sorts of aerials and grounds with varying results. Am now alternating between an upper and a ground-aerial finding that on the upper which is about 65 feet long and approximately 50 feet high, volume is increased on the higher frequencies while on the lower part of the dial, volume is decreased but the tuning isn't so broad. The ground-aerial gives its best results on the crowded frequencies." This young friend's name is Tom Shaw and he lives in Tennessee.

And here is a letter from a reader not quite so young but whom radio is helping to keep young. Miss Lillian E. Clarke of Connecticut writes: "I have been buying RADEX for more than a year and find it very useful. I mark them all over beside keeping a big note-book. I have a new Majestic and am experimenting to see what stations I can get. I find the best hours are in the evening although I can use my radio in the night if I wake up, as it is right next to my bed. I am seventy-five years old so I cannot always do things young people might. WWL, New Orleans, is particularly good and through their suggestion, I got Caracas, Venezuela. I want to get Honolulu but have not succeeded yet. I wish you all success as you are doing a good work in helping those who are trying to make their radio worth while."

Last is a letter signed "C. M. & D. C. King," from Vermont. It begins: "My father and I are partners in this DX business. We have a three-tube homemade set about seven years old. It covers the b.c. band and extends down into the s.w. band for a few meters. We have been DXing for three and a half years and have used RADEX since 1930. I see by the October number that Charles Kneer of Rochester, N. Y., claims the s.w. record on a b.c. set. It may interest him to know that we have 113 amateurs, 6 experimentals, 2 fire stations, 3 fireboats, 15 police and one ship at sea or a total of 140 s.w. stations on a b.c. set. Our grand total is 724. We have the usual run of Canada, Cuba, Mexico, Porto Rico, Haiti and all the states except North Dakota, Nevada and Wyoming. We are waiting for verification from YV1BC, Venezuela. A few of our best ones are KGU, XEF (then Oaxaca with 105 watts) VONA, CJOC (then 50 watts), KGFJ, K G E K, K O R E, K C R C, K F X R, KGFF, KFJZ and KGDA."

Our best wishes for new records to our young friend in Tennessee, to the dear lady in Connecticut and to the firm of "C. M. & D. C. King," a wise father and a loyal son, in Vermont.

# EDITORIAL CHAT *and* COMMENT . . .

*The Monthly Visit*

**R**EVERBERATIONS still echo among the hills following the storm that raged about the question of what was possible in radio and what was not. It is the unexpected in radio that gives it its thrill. If reception could be computed by any formula, DXing as a game would be on a par with mathematics. Imagine being a member of a mathematics club. Here are one or two more instances of the unusual in reception.

"Judging DX reception on a definite basis doesn't work," says Robert McGarvey, Jr., 627 Jackson Ave., Elizabeth, N. J. "After ten years of listening I'm well aware of that. Many times I've found low-powered stations coming in when 5 KW plants were lost in a maze of static. You can't figure a station's coverage by its wattage, as far as DX is concerned. I have heard WNBX, Springfield, Vt., several times using ten watts. Yet I've read of a listener in Vermont who spent several years trying to log the same call. Peculiar conditions exist even among locals. WODA, Paterson, N. J., is nearer my home than WJBI in Red Bank. Despite this, WJBI, with 100 wats, comes in twice as loud as WODA, with 1000 watts. And a DXer in Irvington, five miles from Elizabeth, can hardly hear WJBI at all. On my set WODA fades like a west-coaster, after dark. On a friend's set in Newark it comes in with perfect volume. Any DXer who says a station can't be heard is offering eloquent proof of his inexperience. I really believe anything is possible. I myself have never heard an Australian or a Japanese, but I haven't given up trying."

"Here is an experience of mine, 'believe it or not,' as I haven't looked for a verification," writes T. P. McCarthy, Tilting, Fogo District, New-

foundland. "On Sunday, September 11th, at 9:30 p. m., EDST, I heard quite plainly and with good speaker volume, the announcement of stations WPAW and WPRO, of Providence, R. I. They had just given a program of old time tunes. I haven't heard these stations since, nor do I expect to hear them again. WPAW and WPRO are listed as 100 watts, and, considering the distance I am situated from Providence, I think you will agree that my reception of these stations was a freak in radio. More so when I say that my set is a 5-tube dry cell operated, early model."

## Two Inquiries

This magazine receives a great many letters from readers of which the two given are typical. From Samuel Stutson, 838 Kelly St., Fox Street Station, New York City: "I



*Tony Wons of "Scrap Book" fame. His pleasing philosophies come from CBS each weekday morning at 9:30 EST. "Are you listenin'?"*

would appreciate it very much if you give me your opinion of the Norden-Hauk Custom-built receiver manufactured in Philadelphia. I am contemplating buying one but hesitate on account of having seen so few used." And from Joe Whiteside, 720 N. Navajo, Altus, Okla., "I have a friend who is thinking of buying a 12-tube Silvertone Radio. Is it a satisfactory radio?" Readers who are using either of the receivers named will be doing the inquirer a favor if they will write him of their experience with the particular set. But this magazine cannot pass any opinion upon the merits of any receiver. To do this fairly would require careful tests of each set not only in laboratory but in a home under ordinary conditions. Without such exhaustive tests, our opinion would be worth little. This may be illustrated by assuming that one was in the market for an automobile and wrote to several people asking their opinion of the Chevrolet, for example. The opinions they received would be just opinions.

### It's Poor DXing

DXers should not try to get a verification from a station unless they are morally certain it was that station they heard. If some listeners pick up a program they cannot understand, they seem to jump to the conclusion that it was a Mexican or Cuban and sit down and send a report to the nearest CM or X to the frequency tuned in. This is pretty childish DXing and tends to bring the whole brotherhood into disrepute with the broadcasters. Some of the Cuban stations report a lot of letters received from listeners in the U. S. A. reporting reception of their stations, in which the report is entirely wrong. Among these listeners, we are sorry to say, are a number of readers of RADEX. They probably just "took a chance." Don't do it, DXers. If you aren't sure beyond a reasonable doubt which station you heard, wait and try again. Don't



*The Harding, Sisters, Irene and Mathilde, two of radio's most popular pianists. "Twenty Fingers of Harmony" NBC-WJZ 10:45 p. m. EST Saturdays.*

send reports either raw or half-baked; you'll only make it harder for everybody. In the case of Cuba, the stations there are now requiring 10c in American money for verification. This is done in order to head off a lot of inaccurate and guess-work reports.

### Those Cuban Frequencies

Through the courtesy of the Philadelphia Radio Club, we are enabled to put three special DX programs from Cuba in our Calendar for December. The frequencies given us by the PRC do not agree with those furnished us by the Cuban Government but, as the PRC has a member in Cuba who represents them there, it is possible their frequencies are correct. The official Cuban list shows CMJF on 930 kcs., and CMJE on 1175 while the PRC gives them as 900 and 1150 respectively. The PRC also reports two stations, CMJN and CMJK, which the official list does not mention.

Regarding this discrepancy in the Cuban frequencies, one of the most painstaking DXers in the United States has this to say: "It might be helpful if you would put in a brief note suggesting that listeners be not surprised to find some of the Cubans off their assigned frequencies, and that when they are off, they are more likely to be on a lower frequency than on a higher one. For the reputation of RADEX it would be better to have your lists agree with the Official Bulletin of the Cuban Government, no matter what may be the experience of listeners.

"My opinion is that some of the stations do not have frequency control and get off wave unintentionally, but that others deliberately seek the split frequencies, so as to escape interference. I took the matter up with the officials in the case of CMCD listed for 925 but usually received by me on 915. Was assured that they would be ordered back on their wave, and sure enough for a couple nights they were found on 925, then it became 922 and so on, until night after night they would come in on 915. I have also heard on 1150 Cubans that belonged on 1175. CMC comes in regularly on 835, CMK on 725, XED usually on 960, but sometimes on 965, CMX usually on 880 but sometimes on 885, and XEFO on 935. That may mean I am only able to hear them when they are off frequency. CMAF is invariably on 675, and I have a verification from them which gives that frequency. Nevertheless, they are listed in the Bulletin on 660."

#### The BENDX Club

"The Buffalo Evening News DX Club has started its fifth year of DX and plans are going on for an extensive program," chronicles the Secretary-Treasurer, Mrs. M. L. Ellis, 152 Tremont Ave., Kenmore, N. Y. "We insist upon real verifications thus there is small chance of cheating. Stamps are not accepted. Short waves are barred. In order to get

their verifications, our members are more particular as to the data they send in and consequently stations are more apt to verify. Certificates are awarded for different groups of verification and when our members win their 'Ace,' they know they have won a good one." A very interesting feature of the work of the BENDX Club is their "Singleton Log." A singleton is a station verified by one member that up to the time the list is published no other member has verified. Thus A has WINS, KARK and KGNF. As the list is published the last Saturday of the month, no other member, we will say, has sent his verification of either of those stations to the verification committee. A therefore has three singletons. The next month B verifies KARK so he is called an eliminator and KARK is crossed off the list of singletons. Once in three months the singleton list is published. This list is kept up to date with the latest RADEX and there are now about 140. However we have one member, Mr. Brauner, who has verifications from all but 19 of the stations listed in RADEX but he does not compete, which is very good of him. The BENDX Club now sends tips weekly to all members that are unable to get the Buffalo News. The dues are \$1.00.

#### Prohibiting S. W. Sets

The police department at Jacksonville, Fla., is installing short wave radio and G. H. Coyle of that city sends us a clipping from the Jacksonville Journal indicating that the police will try to have an ordinance passed prohibiting citizens from owning a short wave set. We believe a number of cities have passed laws prohibiting the installing of s. w. receivers in automobiles. This regulation is entirely right and proper for if the crooks and gangsters have radio-equipped cars, the police will be greatly handicapped. But to prohibit the use of s. w. sets in the homes, is unjust and unnecessary and we do not believe such an or-

dinance would stand in the courts. Readers of this magazine are urged to report to us any such legislation, either enacted or contemplated, and we will take it up with the proper authorities. We believe such legislation would be an infringement upon the proper rights of our readers.

"I have just moved from Pittsburgh, Pa., to Vancouver," advises Richard D. Caddell, 1115 West Pender St., Vancouver, B. C., "and I thought you might be interested



*The Skipper of the Show Boat, otherwise Charles Winninger. On the NBC "Red" Thursdays at 9:00 p. m. EST.*

to know that radio reception is 100% better here on the west coast than back east in Pittsburgh. I am using, at the present time, a small five Northern Electric midget receiver, and although I haven't had very much spare time as yet to do much DXing, what little I have done has thoroughly convinced me that the west coast has it all over the middle west and east for radio reception, atmospheric conditions, etc. I am using a 300-foot aerial, but expect to erect a longer one soon. I have also no-

ticed a vast difference in the types of aerials used here in the west, nearly all the aerials here being of the umbrella type, while back east the fans use the straight type of antenna. The Japs and Aussies come in like locals, especially the Japs."

#### Static From Pilot Light

One of the writer's receivers recently became very noisy. At certain frequencies, it gave off most annoying crashes. Removing aerial and ground and connecting the two posts with a short piece of wire demonstrated that the noise was in the set for the noise continued with aerial grounded although of course quite reduced in volume. A careful examination of the chassis disclosed nothing wrong. Tubes were checked and found OK. After the most minute inspection it was noticed that the lead wire to the pilot light touched the drum dial lightly as the dial was turned. The pilot light was disconnected and the lead wire examined. It had been rubbing sufficiently to wear through the insulation so that at certain points on the dial, the bare wire made an electrical contact resulting in the crashes. Undoubtedly many so-called service men would have said the set needed new resistances, new transformers and probably new condensers! Moral, in case of trouble look your set over very, very carefully. The trouble is much more apt to be mechanical than electrical.

#### Another Little Kink

"I use no ground on my Philco 7-tube t. r. f.," states Oliver W. Todd, 1619 N. Conestoga St., Philadelphia, Pa., "as I have discovered a wonderful little trick which works much better than any ground I have ever tried. I wound 50 turns of No. 24 d. c. c. wire on a two-inch form. I fasten on my 120 foot aerial in the proper place and then I connect one end of the coil to the control grid cap of the first r. f. stage tube which is a -24 (the other end of coil is left

*(Continued on page 30)*

# The HUMAN SIDE of the STARS

By "BETTY"

**R**USH phone calls—usually around midnight—have been the determining factors in the career of Jack Denny. It was a hurry call from the manager of the Mt. Royal Hotel that caused Jack, some five years ago, to leave the old Frivolity Club in New York and journey to Montreal; and it was another rush call that brought him back to New York.

Ted Husing, now radio's ace sports announcer, really "signed" the contract which took Jack and his orchestra up to Montreal. A comparative newcomer to radio at the time, Ted was assigned to announce Denny's broadcasts from the Frivolity Club. One evening around midnight while Denny was broadcasting, Husing answered a phone call for him. Thinking it was from a fan, Ted said he was Jack. The voice at the other end announced himself as Vernon Cardy, manager of the Mt. Royal Hotel in

Montreal, and invited Jack to name his own price for an engagement at the hotel. Knowing nothing about dance orchestra rates, Ted looked wildly about, hemmed and hawed a bit, finally caught sight of the telephone number of the Frivolity Club and quoted it as the price. Much to his surprise and further embarrassment, it was accepted on the spot. Fortunately, however, the telephone number happened to be about twice the amount Jack Denny was receiving at the Frivolity, so he accepted a six weeks' contract for performances in Montreal. He stayed five years and two months.

## Back to New York

The second important phone call in Jack's life caused him to pack up again and bring his orchestra back to Manhattan. When he left the Mt. Royal, an enthusiastic audience of more than seven hundred people were on hand to applaud his farewell performance.

Jack found his way to radio via the vaudeville stage. He was born in the little town of Greencastle, Indiana, where his father was professor of history at de Pauw University. Since both his parents played the piano, Jack early began to try his hand at it, and at the age of six was taking regular lessons from his father. After starring in all forms of athletics in high school and during his college days at de Pauw, Jack decided he was never meant to be a scholar, so at the age of nineteen he left school and home to go to Chicago. Here he found a job in a music store selling pianos and lasted three weeks at it—until his artistic temperament asserted itself.

The reasons for Jack's sudden artistic ambitions were his natural talent for the piano, and Tom Catalano's idea that "Catalano and Denny" would look well in lights. So Cata-



*The telephone brought him fame.*



lano and Denny drifted into a booking office, where they landed a contract for a vaudeville act at \$125 a week. With Catalano doing the tenor solos, Denny playing the piano, and the two combining for comedy songs, they toured the middle west for two years on the Keith circuit. Finally they reached New York with \$6.00 between them. As they walked by the Palace, seeing the sights of the big city, Jack remarked to his partner, "If we ever play this house, I'll quit and go to work!" Two weeks later they were at the Palace. The act, coming second on the bill, was a terrific failure; yet after it, the team found itself booked for 64 weeks on the Keith circuit all around the country. Returning to New York to appear at the Colonial, Catalano and Denny proved a sensation—and two weeks later were out of a job. It was at this time that the salaries of all Keith artists were cut, and the team preferred to split up rather than accept the reduction.

#### Signed Armistic When He Came

A few months later, Jack enlisted at the training camp at Plattsburg, New York, and later was transferred to the 77th Division with which he crossed to Europe, arriving just in time for the Armistic. He returned to vaudeville for a few months and then joined a music publishing house as arranger. Bobby Folsom, one of vaudeville's leading artists, asked Jack to write some songs for her. He not only wrote the songs, but also became her partner and leader of the orchestra in the act.

Tiring of vaudeville, Jack turned to orchestral work as leader of the band at the Astor Roof. Freddie Rich, now one of radio's prominent conductors, was his piano player. A short stay there and Jack went to the Frivolity Club. Then came the call from Montreal, and Jack took his entire aggregation to Canada with him. Back in New York once more, he plays in the Empire Room of the Waldorf-Astoria.

Jack Denny and his orchestra are



Formerly "Olive Palmer."

heard twice weekly over two different networks—the NBC (Red) at 8:45 P.M. EST Wednesday, and the Columbia at 8:45 P.M. EST Thursday.

#### Just a Little Choir Girl

When she was 15, Virginia Rea sang in a church choir in Des Moines, Iowa, and was paid for it. Years later, after an extensive course in voice culture, she went abroad for further study and a concert career.

Miss Rea got the additional training but no recital work. She found that American artists are expected to pay for the chance to sing in Europe, and that condition didn't rest well with an American girl used to making money with her singing. So she came home and promptly signed a contract to appear on the radio at a specified and substantial sum. "America," says Virginia, "is the real land of opportunity for singers."

It was in 1927 that Virginia returned from her European excursion, and her first contract was as soloist on the Ever Ready Hour. Soon she went to the Palmolive program, becoming Olive Palmer in deference to the sponsors of that period. For several years her own identity was sacrificed on the altar of advertising, but

recently she appeared on the N.B.C. networks under the name of Virginia Rea, which was her mother's maiden name.

#### Born in "Ole Kentucky"

Miss Rea was born in Louisville, Ky., and was educated in the public schools there. After graduating from high school she went to Drake University at Des Moines. She has been singing in public ever since she was a child of 5, when she made her debut at a church entertainment. During her attendance at Drake, she sang in church choirs, and when she returned to Louisville she was a member of Mu Phi Epsilon, the honorary musical sorority.

When Miss Rea first came to New York she sought an opera and concert career. For a while she made phonograph recordings, establishing a reputation for herself which led to three concert tours with Gowdowsky. It was shortly after this that she went abroad, and came back, determined to confine her singing to American audiences.

She is a true daughter of the South and speaks with a soft Southern accent. She has black hair, laughing blue eyes and a forehead higher than most girls. She is quiet and well poised. She lives with her parents in Jackson Heights, Long Island, and is decidedly the home-girl type. Her wants and interests are simple and cultural and she finds relaxation at recitals rather than at night clubs. She is colorful without being conspicuous.

#### Back With Former Partner

Virginia's preference is for pastels and she won't wear brown even when it is the fashionable color. She is intensely interested in people and in the interval between the time she ceased to be Olive Palmer and became Virginia Rea spent her holiday going places and studying folks. For a while she had a perfectly gorgeous time doing all she always wanted to do but never could because of her broadcasts. Gradually the novelty

wore off and when the call came to return to the N.B.C. studios, Virginia responded with alacrity.

Virginia Rea is now heard with her old partner, Frank Munn (Paul Oliver) with Paul Whiteman and his orchestra over the N.B.C. network each Monday at 9:30 P. M. EST.



*Hon. Thomas McLaughlin, Baritone.*

Tommy McLaughlin, the most recently acquired baritone of the C.B.S., is Irish through and through. His mother was born in Donegal, his father in Belfast. Though neither parent, to quote Tommy, "could carry a note in a basket," all five children can sing, though none of them professionally, except Tommy.

When Tommy was eleven, and his older brother returned from the war, he sang "Silent Night" for him. In the middle of the song, his voice cracked—he had begun a soprano, and finished a baritone. He's been one ever since.

For two years, on station KFI, Los  
(Continued on page 33)

# SAILING *The* SHORT WAVES

• • • *Letters from the Pilots*

**T**HE data regarding short wave stations is so voluminous that we are forced to give it to our readers on the installment plan. In each issue of this magazine will be found some information regarding s. w. stations which is necessary for those who would work these higher frequencies. Under the circumstances, therefore, it will be necessary for them to secure each and every copy of RADEX in order not to miss some vital data.

In the September issue, No. 61, there was given a list of the short wave stations outside of North America in geographical order. The time on the air for each station, so far as it was obtainable, was given in this list.

In the October number, No. 62, a list of all short wave stations was given. These were arranged in the order of their frequencies. In No. 63, the November edition, there was given the s. w. stations of the United States arranged by states and cities, and this issue a similar list is given of the Canadian stations. It will thus be apparent that all four issues are necessary to give the s. w. fan a complete list of all the information of stations in his favorite bands.

In this issue is given also, a list of all s. w. stations arranged in the order of their call letters. This, we believe, is the very first time such a list was ever published and it ought to be of very great help in identifying calls heard. The moral of all this is plain—don't miss a single issue of this magazine or you will lose something you ought to have.

## Both For and Against

A letter from Bob Purcell of the Editorial Department of the Miami Post, has us puzzled. He started in by intimating that the short waves were a delusion and a snare but he

ended up by giving some mighty interesting experiences in the short waves. So we still don't know just where Bob stands. "There is more bunk told and written about s. w. reception than would fill quite a library," he warns us in the very start. "Few people who were induced to buy an all-wave set ever bother with the s. w. dial after the first two weeks of squawks and whistles. They expected to be able to tune in foreign stations and sit back and listen to something interesting." After this dash of cold water he goes on to say: "At 19 meters we get Schenectady, France, Germany and the new Pittsburgh station regularly. At 20, the amateur telephones. At 25 m. France, Pittsburgh, Rome, Mexico, England, France, Winnipeg and Yucatan. At 31 m. Schenectady, Boston-Springfield, Sydney and Melbourne, Rio de Janeiro, and WEF, a telephone. At 49 m. are Pittsburgh, Bowmanville, WIW, WENR, Montreal and the new Miami station, W4XD, on 6060 kcs. The Australian stations are the easiest to get as there is nothing else on the air at that time of night or morning. I have picked up Melbourne at 11:30 on Tuesday night. I have listened to Sydney from 2 a. m. to 9 when it went off the air."

Mr. Purcell uses a Miami-built set, the Kent All-Wave, which tunes in the 19, 20, 25, 31 and 49 meter bands as well as the regular broadcast band, all on one 360 degree dial.

"I certainly was glad to learn that RADEX is devoting space to the short-wave fans," says E. P. Palmer, 84 Cornell Street, Williston Park, L. I., New York. "I want to thank you for the excellent list of s. w. stations in the October issue. I have been interested in s. w. reception for nearly two years and since last May have been using a Pilot Dragon with good results. I am enclosing a partial list

of stations received. One of the bugaboos of s. w. reception is trying to identify foreign stations when you are unable to understand their language. Fading is another annoyance that is hard to get used to, particularly the rapid, high-speed type of fading characteristic of the short waves. By the use of a V-shaped antenna, a great deal of this fading can be overcome and I think RADEX would be doing the s. w. fans a very great favor if it would run an article on antennas for s. w. reception." Mr. Palmer's suggestion is respectfully referred to Mr. Dashiell who may be able to dig up some data and experiences regarding aerials for short waves. On the b. c. band, Mr. Palmer says he gets excellent results with absolute ten-kcs. selectivity and plenty of sensitivity. Mr. Palmer submits a fine list of s. w. stations with the dial setting for the Pilot Dragon. In submitting lists of s. w. stations received, may we ask our readers to give the frequency or wave-length, and if possible, the day and hour of the week on which they were received? The time received is of the utmost importance in s. w. work. And, by the way, do our readers feel that it is going to be possible to discuss s. w. work in terms of frequency rather than wave length?

### Just Getting a Start

"I have been DXing for seven months," says Harold M. Wheeler, 410 Marston Ave., Madison, Wis., "only about two of which were DX weather, so I am just beginning. But I have a broadcast band log of 310 stations. I have a shortwave log of 231 stations, my best catch on the broadcast band, by far, is 2YA at Wellington, N. Z., on 720 keys. My shortwave luck with a converter has been fairly good, and all summer I listened to Germany, England, France, Italy, Spain, Portugal, Argentina, Australia, Japan, Mexico, Costa Rica, and amateurs from everywhere. I get the biggest kick, however, out of foreign reception on

the broadcast band, because, after all, that is the real DX. I have a Philco, Model 112, eleven tubes and a Kennedy Converter. I use one of your filtered aerials for broadcast band work, but get best results on short-wave with a double sixteen foot antenna in my attic. I would like to hear from anyone who has tried the Tobe Filterizer kit described in your September issue. I would also like to have someone send me the address of the Transcontinental DX Club and would like to correspond with anyone who would like to help out a beginner."

### Here's the Address

The address of the Transcontinental Radio DX Club is 4 Vincent Street, Hawthorne, N. J. Ralph H. Schiller is President. This Club reports that a total of 46 stations took part in their "United States on the Air" DX series on October 15th. The Club is now arranging for a similar series for the Canadian stations on Saturday morning, December 3rd. The actual stations taking part are not yet known but undoubtedly DX-ers ought to be able to add a number of the northern stations to their logs between the hours of midnight and 6 a. m. EST, the morning of December 3rd.

"May I suggest to the shortwave readers of RADEX," writes C. Gates, 514 Ivy St., Pittsburgh, Pa., "that they listen in on the twenty-meter band some Sunday afternoon? It is very interesting, and even with adverse weather conditions, amateur stations from all over the United States can be received. Here is a list of stations I have received on that band: VE1CO, W5QL, VE1BT, VE1DQ, VE1BL, G5BY, VE4AR, CM2QJ, CM8QS, W9CJJ, W4FI, W4DJ, W5AFI, W6EN, W6CME, W6ACN, W9BRD, VE3BK, W9BRQ, W6QV, W5VA, W6KG, VE1HA, W9LD, W9ENU, W5ASI, W5BOC, W4ADR. Station W9CJJ, of Denver, comes in like a ton of bricks.

"Can you tell me if FYA uses directional antennae for their Asiatic

and African transmissions? Have received both. Also, would appreciate identification of two telephone stations on approximately fifteen and fifteen and a half meters that carried on conversation this morning (October 28) from eight till ten. Language sounded somewhat like German, but don't believe it was German. In calling the station on the lower wave repeated 'Allo' three times. Man and woman announcer alternating. I didn't hear any call letters given."

"Just recently I took the Government examination and am now a licensed amateur radio operator and will soon get my station license from the F. R. C.," advises A. R. Van Compennolle, 618-A No. Baker St., Santa Ana, Calif. "Some other DXers I know are also members of the A. R. R. L. and will sooner or later become amateurs. A great many DXers who become shortwave fans are going to become interested in amateur radio when they hear the amateur phone stations talking to each other. According to the latest count there are over 33,000 amateur stations in the U. S. A. Mr. William Kirchmann, your W8BOZ is Raymond M. Rapp, 8 Kenmore St., Warren, Pa., according to my amateur call book, and W3SM is Robert Adams 3rd, 1302 Keswick Ave., Haddon Heights, N. J."

#### We Got Him Into It

"It was entirely due to your articles and information that I decided to purchase a shortwave converter," admits Richard W. Mitchell, 542 Ste. Angele St., Three Rivers, Que. "After trying several makes I got hold of a 1930 Silver-Marshall No. 738 Superhet converter and connected it with my Majestic Model 92. The results have been remarkable. I am able to pick up Rome and Chelmsford eight nights out of ten when I come home from the office at 5:30 p. m. EST."

"I bought a Marconi superheterodyne all-wave set about the end of October last year and started to log about November 1st, and so in less



*Irene Taylor, lovely blues singer from Chicago  
Wednesdays at 8:30 and Saturdays at 11:30  
p. m. EST on NBC-WEAF.*

than a year, in looking over my log, I find I have 140 b. c. stations to my credit and 26 shortwave," writes E. W. Law, 10439 69th Ave., Edmonton, Alta. "However, I am afraid I have not made very good success as far as the shortwave stations are concerned, as the only ones I have had, outside of the U. S. A., are two in London, England, one in Rome, two in Honolulu, and have lately been getting VE9GW, Bowmanville, Ont."

"I recently logged two shortwave stations on a b. c. set, which I have not read of being picked up by other RADEX readers," reports Stewart Stowell, Rockledge Ave., Fox Chase, Pa. "They are WIXO and WEY. WIXO is the portable station used with WMP, the Massachusetts state police station in Boston. When I picked it up it was testing with WMP. The only time I received WEY was when I heard it sign off early one morning. This brings my total to 13

*(Continued on page 32)*

# FIRST AID IN TIME OF TROUBLE • • • *By the* TECHNICAL EDITOR

## Knife Edge Selectivity

*I have a Kolster a.c. model 6 J radio set, a Jensen dynamic speaker and a 90 foot outdoor antenna. How can I get knife edge selectivity on this set, especially in the lower wave lengths?*

This set has a variometer tuned input which is not the most selective method in the world, and therefore we do not believe the set can be made much more sensitive than it is at present. You might try placing a small fixed condenser (.00025 mfd. capacity) in series with your antenna, and this should increase the selectivity on the lower wave lengths.

If you wish to change the antenna input circuit in your set, you might experiment by replacing the variometer and antenna inductance with a coil wound on a tube that is about 2½ inches in diameter and three inches in length. Place 12 turns of No. 28 silk covered wire on one end for a primary, and ½ inch away begin a secondary coil consisting of 53 turns. Connect the primary between the antenna and ground, and the secondary between the grid of the first -26 tube and the ground. Tune the secondary with a .0005 variable condenser if that capacity is not now in your set at this point. If all the lower waves are not heard remove a few turns from the secondary coil.

## Phonograph and Microphone

*I would like to know how to use a phonograph pickup on my model 90 Majestic radio set. I have tried but I don't seem to be able to make it work. Also, my microphone does not work with a detector adapter plug, and will not reproduce through the loud speaker.*

The phonograph pickup device and microphone output are connected to

the set in identical manners. See the answer to a previous question in this issue showing how to make the attachment to an Atwater Kent receiver. Some changes, however, will be necessary in your case.

There is an input transformer connected to the plate circuit of the detector (-27) tube. It has a split secondary, the center of which is grounded. Open this ground lead and insert the two binding posts as explained in the previous answer. So much for the phonograph attachment.

You must use an output transformer with your microphone. Place the microphone in series with the primary of the transformer and two dry cells of battery. Run two leads from the secondary of the audio transformer and insert them in the two binding posts previously mentioned in the same manner you connect the phonograph pickup leads. In your set it is best to remove the detector tube when the phonograph or microphone is being used, for you do not ground any cathodes as mentioned in the previous answer.

## Delco System Interferes

*Please tell me what I can do to keep my 32-volt Delco electric system from interfering so much with my 6-tube Crosley battery set—1929 model.*

The trouble does not lie in the set, although if it were more perfectly shielded the interference would be somewhat less. It is not quite practicable, however, to make such changes in the set. We presume you get this interference when the battery charger is working, or other motors and power devices are operating. You will get certain clicks when switches and starters are turned on, but these cannot well be eliminated. If the trouble is due to sparking of brushes

on the commutators of the generator when charging the storage batteries, or on motors used for power purposes, some remedy is possible. Brushes and commutators should work smoothly and perfectly so as to reduce sparking as far as possible.

It will be necessary to connect condensers across terminals and use certain choke coils to absorb the high frequency sparking that takes place. We suggest that you write the Tobe Deutschmann Corporation, Canton, Mass., for information about their Filterettes which can be connected to your sparking devices and thus absorb a great deal of the interference. This concern is expert at this type of radio noise elimination.

### Signals Almost Inaudible

*I have a My Own midget set that does not give the volume it has had before. The stations are almost inaudible, but there is no noise in the speaker. I have had a new by-pass condenser installed and it helped the volume a bit.*

Loss of signal strength may be caused by several sources. The first, of course, is the suspicion of worn-out tubes. These should be tested—the two -24s and the two -27s, and replaced if at fault. Next we should suspect any one of the grid resistances and others used in the circuit. A failure of some fixed condenser will give much trouble. A broken or burned out transformer primary or speaker frequently does not stop all signals, but greatly diminishes them in volume. Have the windings tested not only for breaks but for short-circuits between coils and metal covers.

A breakdown in the power unit may be the cause, for the plates of the tubes may not be getting their proper voltage or the grid bias of a tube may be too negative or too positive. The potentials being supplied each tube should be tested with a voltmeter when the set is being used. It is possible that an electrolytic condenser is defective or the voltage



Ohman and Arden, piano duo, Sundays at 9:15 p. m. EST over NBC and WEAf network.

divider may have a break in the resistance coils at some vital place. All these things should be tested carefully with a voltmeter for proper operating voltages. A careful test of tubes and operating voltages for filaments, grids and plates should soon disclose the source of failure.

### Power Line Interference

*I live beside a high tension power line which interferes with radio reception. The power company has made some tests and suggestions, one being the use of a new design for antennas using transformers in the circuit. They say the electric field around the wires does not extend far enough away to give much trouble. What can you suggest?*

If your receiver is well shielded the trouble is picked up almost entirely by your antenna and ground lead wires. Try using a metallic shielded wire for ground and leadin from the antenna. The new type of aerial, suggested by the company, may be of

benefit. The Kolster Radio Corporation is now furnishing all their sets with a new antenna Rejctostatic which is said to eliminate much of the trouble you are experiencing. Write to them at 67 Broad Street, in New York City for information and prices on this new device.

High tension power lines are surrounded by great electrical fields and the lines of force extend out sufficiently far to affect a sensitive radio receiver. We have heard that some success has been had with an antenna curtain, and you might be justified in experimenting with this system. A wire is hung parallel to the power line and slightly higher. It should be about 75 feet in length. Hanging down at two-foot intervals are vertical wires that are grounded at their lower ends. The radio antenna is then placed behind this curtain and at right angles to it. The antenna must not be any longer than the curtain, or about 75 feet. The leadin wire must be carefully shielded with grounded metal covering. The antenna must not be as high as the top of the curtain. If space is available this device, at least, will be an inexpensive and interesting experiment.

#### Phone Adapter Changes Tuning

*I use the I.C.A. headphone adapter in my Atwater Kent a.c. set but it changes the tuning somewhat when between 1300 and 1500 kilocycles. It seems to me, also, that the telephones do not have as much power as they should.*

The I.C.A. adapter connects to the grid input circuit of one of the power amplifier tubes, and therefore the gain due to power amplification, such as the -47 tube in your set, is lost. It is likely that the change in tuning characteristics is due to the added circuit in the grid caused by the introduction of the adapter. Are you using it, perhaps, in the detector tube socket? Try attaching a 0.5 fixed condenser in series at each phone cord tip and then connecting them to the plates of the two power tubes. This

is a capacity coupling and will eliminate the change in tuning on the dial.

#### Slow Heating and Noisy

*My model 52 Zenith receiver does not start to work perfectly until some time after it has been turned on. Also, there is some noise when the volume control knob is turned. Why is this trouble experienced?*

All sets require some moments to warm up, that is, the tube filaments heat cathode heaters surrounding the filament, and they do not start emitting electrons until very hot. This takes about 20 to 30 seconds with some older tubes. New quick heating tubes are now available.

The noise is in your volume control. Inspect and clean it, if possible, and place a bit of clock oil on the wire resistance, if of that type. If it is a carbon resistance, the parts may be packed and this will require a new control.

#### Phonograph Attachment

*I have a model 89 Atwater Kent radio receiver but it is not equipped with a phonograph connection. Is it possible to make a change in the set so that I can use a phonograph attachment?*

The model 89 Atwater Kent receiver does not have the phonograph outlet connections and switch that are provided on the model 89-P. Otherwise the two sets are identical.

Your set, the model 89, has a volume control which is a potentiometer with moving arm to vary the resistance. This arm connects to the grid of the first audio tube—a -27. One end of the resistance in the control is grounded to the chassis. Cut or open this grounded circuit and run a separate wire from the resistance to a binding post placed at a convenient place in the cabinet. It must be well insulated from the chassis, of course. Place another binding post adjacent to the first and connect it to some grounded point on the chassis.

When the phonograph attachment

*(Continued on page 33)*



# LOOKING OVER *The* MARKET

## *As Radio Develops*

**T**HE All-Wave Set with the Magic Dial is the intriguing name of "the new 11-tube Stewart-Warner Superheterodyne Receiver. The dial is of entirely new design with the four scales for the four bands being printed one above the other. Only one of these scales may appear at a time, however, in the arc-shaped window in the panel. The four scales are 15 to 30 meters, 30 to 75, 75 to 195 and 550 kcs. to 1600. A single band-selector switch moves any one of these scales into view and at the same time changes the coils accordingly. The main control knob or station-selector controls the tuning for all four scales. The advantage of the Magic Dial lies in its simplicity and the fact that the scale for the particular band in use is the only one visible thus eliminating the confusion due to several different scales visible at the same time.



*Stewart-Warner Master All-Wave.*

The Stewart-Warner has two-speed tuning, that is by pushing in or pulling out the tuning knob, the gear ratio is changed from 8 to 1 down to 50 to 1. First speed enables the operator to turn from one end of the scale to the other very rapidly while second speed enables him to tune to hairline limits for razor-edge selectivity so essential in the short waves. Automatic volume control and automatic tone control are provided. The former keeps the volume level automatically regardless of the proximity of station or strength of signal. The latter automatically increases the base response at low volume levels so that it registers on the ear. By pulling out or pushing in the volume control knob a local-distance switch changes the sensitivity of the set.

The circuit is said to be entirely new; the tube equipment includes four -56, one -57, three -58, two PZ output pentodes and one -80 type rectifier.

### Succeeds the "Thrill Box"

Our readers will recall that a large number of the excellent records in short wave reception of which they have read in this magazine, were made on the National receiver. The old SW-45 made by the National Company, Inc., of Malden, Mass., has been superseded by the new SW-58. In the new set the type -58 pentodes are used in the r. f. and detector circuits (-34 in the d. c. model). The new tubes, the manufacturers say, contribute materially to the high efficiency of the circuit, and permit a degree of selectivity and sensitivity that have heretofore not been realized. The coils are available in various sets covering from 12 to 2000 meters and band-spread coils can be obtained for special portions of the frequency spectrum. A special tuning condenser makes it possible to isolate completely the input and output circuits of the



The National SW-58 is made in both A.C. and D.C. models.

r. f. stage which is said to result in a perfectly stable system even at the highest frequencies. This manufacturer thinks that switching devices necessarily introduce losses and therefore equips the SW-58 with plug-in coils in both a. c. and d. c. models. The receiver is constructed for use with a separate power-pack to prevent the excessive shielding otherwise necessary in the r. f. and detector circuits. The dial is full vision or open scale arrangement. The scale is seven inches long permitting greater accuracy in reading. The pointer moves across the entire length horizontally.

#### Apartment House Aerial

An aerial for the roofs of apartment houses where it is not possible to erect a long wire, is being produced by The Radio Service Co., of South Bend, Indiana. This antenna system uses a metal shielded lead-in wire with two transformers for elimination of

man-made static. The standard for the antenna is of threaded pipe construction. At a height of 15 feet or more two cross arms are supported which carry the aerial wire. These cross arms are 42 inches apart and four feet long. The aerial is woven back and forth through the cross arms using 42 feet of Belden chap wire. One of the transformers is mounted on a cross arm and connected to the aerial and to the shielded lead-in. The latter then runs to the other transformer at the set. This device can be furnished with multiple outlets so that five different radio sets may be used on the same aerial.

#### The Four-Pillar Tubes

The accompanying drawing illustrates the patented four-pillar construction of the Eveready Raytheon tubes manufactured by the National Carbon Co., New York. The elements in these tubes are held rigidly in position by four pillars instead of the two usually found in other tubes. Because of this construction these tubes will stand shipment in the set, and are particularly desirable in automobile radios where tubes are subject to constant jolts and vibration. Other points claimed for the Eveready tubes are: large clearances between electrodes which help to insure uni-

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| <input type="checkbox"/> Trial subscription, next five issues of RADEX.....                                       | \$1.00 |
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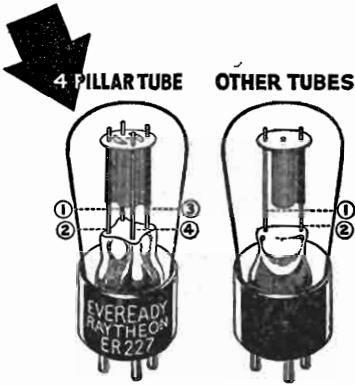
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# NEW TUBES ...for OLD?



form characteristics; large radiating area to dissipate heat, contributing to safe operating temperature and long life. All of the latest type tubes are furnished with this construction.

## An Automobile Radio

The new Models 88 and 61 "Motorola" Auto Radios, manufactured by the Galvin Mfg. Co., 847 West Harrison St., Chicago, are eight and six-tube sets respectively. The power supply and receiver are in the same housing, the size being but 8x8x9½ inches. No B batteries are necessary. The station selector is mounted on the steering post. Both models are superheterodyne with automatic volume control. The dynamic speaker can be mounted on the cowl. It is claimed that the set is so thoroughly shielded that it could be mounted in the engine compartment with little or no chassis pick-up. The set comes ready to install with all cables connected.



The "Motorola" Superheterodyne.

IN most radio sets the new tubes, types 46, 56, 57 and 58, may be used to replace types -45, -27, -24 and -35, respectively. While there is not always an advantage in replacing these older tubes with newer types, there is some economy of current, for all of the new tubes, with the exception of the type 46, draw only 1.0 ampere while the older tubes use 1.75 amperes. The filament requires a potential of 2.5 volts in all the tubes.

Type 56 may be substituted for type -27 without change, for both tubes use 5-prong bases which fit all -27 sockets. The circuit wiring of the set needs no alterations. The use of the 56 tube in replacing the -27 is recommended because of the greatly improved performance of the newer type.

Type 57 cannot be substituted for type -24 unless a special adapter is used, for the 57 tube has a 6-prong base that will not fit the 5-prong receptacle used by the -24. Both tubes have the control-grid caps at the top. The suppressor-grid and cathode of type 57 are connected together and brought down through the new adapter to the cathode prong of its base. Simply remove the -24 tube, insert the adapter, and fit the 6-prong 57 tube into the top.

The same adapter is used to substitute the 58 type tube for the type -35 or -51. The new 58 is an improvement over the -35. And while the 58 can also be substituted for the -24, it is not always to be recommended. Many circuits were improved when type -35 tube replaced the -24 in radio and intermediate frequency circuits a year or so ago, and the electrical balance of those circuits may not always permit the combination of -24s and 58s; the re-

(Continued on page 32)

# CIRCLING THE GLOBE *with*

*the DXers* . . .

*Records Great and Small*

**W**HAT a "grand and glorious feeling" when you sit down at the dials and suddenly bring in your first real foreigner. Like that fellow in the "Lost Chord"—"seated one day at the organ, I was weary and ill at ease"—you know how it goes. Well, our first letter this month tells about just such an experience. It has a moral too. If this listener hadn't just got the October RADEX the day before with the foreign broadcasters arranged by frequencies, she would not have tuned in 635 kcs. and got the big thrill of her DX life.

Let us repeat here what we have already said in the article on the short waves: The data regarding stations is voluminous enough to fill half a dozen books of our size. It is absolutely necessary for us to subdivide this information and publish a part of it in each issue. In October there was the list of trans-Pacific stations arranged by frequencies. In November, we gave a list of all the world stations in the broadcast band arranged by frequencies. The world broadcasters were published by countries and cities in April, No. 58. This list with corrections will appear again in an early number.

Now let's see what our DXers have been doing and—"Women first."

"Received my first Australian broadcaster, 5CK, this morning," records Mrs. L. R. Ledbetter, 1109 Grammar Street, Vicksburg, Miss. "I certainly was surprised; I had expected to have to strain my ears if I should hear an Australian whereas it was too loud for more than half volume on the speaker (excepting the times, of course, when it faded away) and reception got decidedly better from 4:30 a. m. until 5:30. I kept this station on 635 kcs. until the sun could be seen shining at 6:10 when the signal was

drowned by local interference. I give credit to the October RADEX—I bought it yesterday—and that was my first attempt at real DX.

"I have a Fada Model 45 Superhet with about 110 feet of aerial and a water-pipe ground. The aerial isn't over 45 or 50 feet high. Now that I know I can, under not very exceptional conditions, get a 7500 watt station that far away, I feel sure that patience, good radios and aeriels under better conditions would bring in even that 'absurd 2-ZI.' How is this for selectivity—CFCN on 985 with WBZ on 990 and KDKA on 980 both coming in and also KNX on 1050 and XES on 1055 with no interference with each other?"

## 31 New Ones in 31 Days

"I started off this season with a bang," gloats Nancy Lee Saxton, 317 N. Sergeant St., Joplin, Mo. "From September 15th to October 16th, I logged 31 new stations. I thought this rather good for the first of the season and it brings my total up to 405 stations with 185 verified. Some of my best are CKPR, CMBG, CMBY, CMAF, CMQ, KDFN, KOAC, WAAF and 10-AB. I have every state but Maine, New Hampshire, Vermont, Rhode Island and Delaware and every channel from 540 to 1500. Starting September 11th, I tried to see how many days straight I could get KFI and I went from then to June 19th without missing a day. I agree with you that anything may happen in radio. Tonight I couldn't get either WLW, WMAQ or WGN but both CMK and CMAF were coming in fine." Miss Saxton adds this P. S.: "How about printing more letters from the women DXers?" We have a great many women readers and have published a number of their records but we will be delighted to receive more of them.

"I have been a DXer for over two

years," says E. Lloyd Whitmer, 121B S.E. 4th St., Evansville, Ind. "As I live in an apartment in the heart of the business district, reception conditions are very bad, and I have no choice of antenna installations. However, under these conditions I have logged 230 stations; 219 in the U. S. A., 4 in Canada, 3 in Mexico, and 2 in Cuba. I have heard stations in 40 states and my cities total 158. 39 of my stations logged have been ones using 100 watts power or less. I have used Atwater Kent radios exclusively in my DXing (Models 10, 32, 35 and 55) and am well pleased with their performance. At present I am using a Model 55, but am contemplating procuring a Model 72. I would appreciate hearing, through RADEX, from owners of either of these two models as to their results."

#### Nine JO's in One Day

"On the morning of Sunday, September 25th, I picked up these Japanese: JOAK, JOBK, JOCK, JOFK, JOIK, JOJK, JOLK, JQAK, JFAK, JOHK," reports Don Townsend, 1421 Arch St., Berkeley, Calif. "All of these came in loud enough to be heard across the room. JQAK was weakest. 5CK of Crystal Brook, Australia, came in very good. All talking distinctly heard and music good, almost no interference. It came in better than most of the Japanese. All of these were received between 3:30 and 4:05 a. m. PST. I got dope for verifications on JQAK, JOLK, JOJK, JOBK, JOHK and JFAK. I have already verified 5CK and the Japs. I have written twice before for verifications to JFAK, JOBK, JOHK, but they did not answer."

#### With a One-Tuber

"I use a home-made one-tube a.c. receiver, using a 227 tube with 22½ volts B battery for the plate voltage," advises Robert Loucks, 1048 Alcott Ave., Toledo, Ohio. "I built the set on August 3, 1932, and my total stations is 209 to October 9th, with 28 verified. I only write to the stations of 250 watts and under or those which are

over 1000 miles. I have had 50 stations of 250 watts and under, the best of which are: KGEK, Yuma, Colo., 100 watts; CKPR, Fort William, Ont., 50 watts; KFJZ, Fort Worth, Texas, 100 watts; WENC, Americus, Ga., 100 watts; WRBL, Columbus, Ga., 100 watts; WHET, Troy, Ala., 100 watts; KCMC, Texarkana, Ark., 100 watts. All of these are verified."

#### It Made a Big Difference

"I picked up RADEX a year ago today and believe me I haven't found one yet that will beat it," writes George E. Lowrey, David St., Brampton, Ont. "I only had about 75 stations then, half of them I didn't know just where they were located. But now I have 303 stations, with 112 verified. My very best catches are KGEK, Yuma, Colo., a 100-watter; KFPMP, Greenville, Texas, a 15-watter; KRMD, Shreveport, La., a 50-watter, now 100 watts; KFJZ, Fort Worth, Texas, a 100-watter. These I have never heard twice and never expect to again. I would like to correspond with another DXer in Ontario, using a Rogers 400 model, 7-tube."

#### Tuning Amateurs on B. C. Set

R. M. Ballard of Visalia, Calif., offers this suggestion to owners of the Majestic 52: The amateurs can be received on this set by opening the aerial compensator very wide. This will drop you into the 160 meter amateur band. Tune until the greatest signal of the amateur is heard. Mr. Ballard has received ten amateurs by this method. He uses 300 feet of aerial and this may play some part. Mr. Ballard wants to know which Havana station was broadcasting on 1235 kcs. the morning of October 16th at 3:30 a. m. EST. The last number was a woman singing. The announcement was Havana but a station in the West drowned out the call letters.

"I have a Scott and specialize on the broadcast band," writes Abe Cohen, Library Dept., Seattle Post Intelligencer, Seattle, Wash. "Since April 14, 1931, when I received my set, I have logged 232 stations in 42

states and 96 out of 97 channels. With the exception of a small station in Portland, which just broadcasts a couple of hours during the afternoon (and I hope to get that this winter) I have completely logged Washington, Oregon, Idaho, Montana, Wyoming, Utah, Nevada and Alaska. I now have logged about 90% of the stations in and west of the Rockies."

#### Another Singleton

"I have read a lot in your magazine about small set DXers, so I've decided to write you about my activities," says Harvey Reid, 371 Willard Ave., Toronto, Ont. "I made a one-tube regenerative receiver, using a UY224, which sure pulls in the DX. With it I have logged 175 stations and am adding to this each day. I have four 50-watters, and about twenty 100-watters. I have received KFI, KXA, CMK, XEW, XER, XED, CFRN and many other distant stations. I started buying RADEX in February, 1932, and haven't missed an edition. I would be glad to communicate with fellow DXers about 15 years old."

"I have, I think, some good DX for my set that will compare with any comers," writes L. A. Brodhecker, Box 82, Brownstown, Ind. "I have a six cylinder General Motors outfit, midget job, with which I have logged 162 stations so far. Ten of them are from California, one from Washington State, one from Oregon, one from Nevada, one from Utah, Porto Rico, also several in Havana, also from Florida and Texas in the south, to Canadian stations in the north, and from Connecticut to California. I use an L type aerial, about 160 feet in length."

#### XFC is Holding Out

"I have been a DX hound for about twelve years," admits Myron A. Sturm, 922 Eastwood Ave., Chicago, Ill. "I have gone in for the elusive verification only since the first of this year. I have no record about which to brag, having logged only 170 stations since that date. However, I can boast a total of 169 verifications, the

only hold-out being XFC down in old Aguascalientes. The reception was logged three months ago and I have written three times, but I have just 'begun to fight.'"

"The DX season here started off with a bang on October 2nd and 3rd," advises Robert E. Moran, 1309 Wellington St., Ottawa, Ont. "That evening and morning I was very successful in pulling in YV1BC, Caracas, Venezuela, which came in like a local, and also WKAQ at San Juan, using a temporary power of 700 watts, due to conditions through storm damage. WPRO on 1200 kcys., 100 watts, comes booming in here with the strength of a 100-watt local, and this is in the daytime I'm talking about. Queer, eh?"

#### Back After Eight Years

"I have just rejoined the DXers," informs Gordon S. White, Rt. 4, Monroe, Mich., "having been gone since the early days in 1923. Am now working nights with plenty of opportunity to DX. So far have 38 states in about two weeks, also Canada, Mexico, Porto Rico, on a Model 20 Philco, built in 1928. I get a lot of 100-watters early in the morning as far as the west coast, but am bothered a lot with man-made static. I am going to buy a short-wave converter later on. Are they practical or would you recommend an all-wave set?"

As will be seen from many letters published in the short-wave department, many excellent records are being made with converters. An all-wave set is practically only a broadcast set and converter housed in the same cabinet and with the advantage of changing from band to band by turning a knob.

"I commenced logging last February and to date I have 175 stations which cover 34 states, District of Columbia, Mexico, Cuba and Canada," writes Harold Tynes, Russellville, Ky. "I expect to log at least six more states during the coming winter and also to enlarge my log to 500 stations. I have a Majestic, Model 20, 8 tubes, and it sure does speak well of itself.

I would like to correspond with DX fans over the United States, or any other place for that matter, and promise to answer every letter I receive."

### Tries the Ground Waves

F. Martyn, 695 Nassau St., Winnipeg, Man., has been doing some experimenting with underground aerials, having tried successfully both an iron pipe driven seven feet into the earth and also 200 feet of copper wire buried 24 inches deep. He has a total of 306 stations with 130 verified.

"DX as a Hobby' in the October issue was fine for a beginner," thinks Reeve Owen, 113 West Wall St., Calhoun, Ga. He has logged 251 stations from 46 states and six countries on his Crosley "Buddyboy" and thinks this is nearly a record for this set.

Every state but Delaware, is the record of Rexford Newcomb, Jr., 605 Nevada St., Urbana, Ill. With the time on the air now given in RADEX, he ought to be able to log WILM or WDEL before long. Rex wants information about "The Flying Dutchman," an orchestra on 920 kcs. which he received the evening of October 2nd. His total log is 364 most of which he has had to pull in between his classes in Ceramic Engineering at the University of Illinois. Other DXers in college, please write.

### Who Uses This One?

"I'm wondering if any other DXer uses an 'Autocrat,'" remarks Glenn E. Mitchell, 1088 East 16th Ave., Columbus, Ohio. "It was built by Shaffer-Mann Co., of Detroit. It is a remarkable receiver. I have had WWL and WFAA at high noon." The first week of the new season adds ten stations to Glenn's list, which now totals 533.

"What was the Spanish-speaking station on 796 kcs. Sunday, Sept. 25th, from 12:15 to 12:50 a. m. EST, with a program of military music by a Spanish orchestra?" asks Earl R.

Roberts, 105 Gomber Ave., Cambridge, Ohio. "KGO interfered somewhat at times and the station was weak, fading entirely out at intervals."

### Wants Help With Short Waves

Chas. K. Burkinshaw, 2856 Holt Street, Rosemount, Quebec, has an Echophone Super, 9 tubes, long and short wave. He is very much pleased with the set but does not get the results on the short waves which he thinks he should because of his lack of experience in tuning. He would appreciate any hints he may receive from other users of the Echophone.

Leonard Trisdorfer, 2056 East 24th St., Brooklyn, N. Y., has a tent-tube Sparton No. 737 which he thinks ought to give him better results than it does and would like to hear from other owners of this model.

"On January 15, 1932, I bought a Model 62 Kennedy radio, and to date have a log of 384 stations, covering 44 states, Canada, Cuba and Mexico," reports Roy V. Heater, 7805 S. Peoria St., Chicago, Ill.

"Received CMBY at 2:08 this morning, October 23rd, and CMCA at 2:48 a. m., both on 1225 keys., and signing in English," says R. H. Corson, Fern Hall, Cleveland, Ohio.

### Some Possible Foreign DX

In addition to the "Canada on the Air" DX programs for Saturday, December 3rd, the Transcontinental Radio DX Club is negotiating with the following stations for special programs. It is not yet possible to say how many of them will cooperate but it will do no harm for DXers to try to tune them in on the dates and at the hours given.

LT3, Sunday, Dec. 11th, from 3 to 4 a. m.; CPX, Monday, 12th, 3 to 4; LS5, Tuesday, 13th, 2 to 3; PRAK, Wednesday, 14th, 2 to 3; CX26, Thursday, 15th, 2 to 3; OAX, Friday, 16th, 3 to 4; and HJN, Saturday, 17th, 3 to 4. All times are given in Eastern Standard and the hours are a. m.

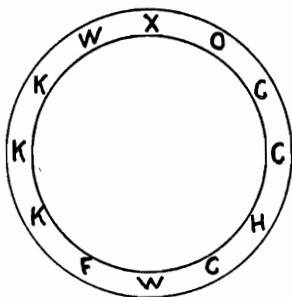
# The PUZZLE CORNER

That was a pretty stiff puzzle that Messrs. Welsh and Moyer gave us in the November number. If you couldn't solve it, here is the answer: Stations around the rim, W T O C C K G W W S M K - K W L C - C H C K - K F P W; on the spokes, W O W O, C K M O, W D B O, K S O O, C F B O and K F U O.

"The following problem in long division," writes the originator, George Raba, of Stevensville, Michigan, "is based upon a favorite dramatic team heard in this section of the U. S. A., 'Dan and Sylvia.' Change the letters into numbers from naught to nine inclusive.

	<u>AND</u>	
<u>DAN</u>		<u>SYLVIA</u>
		<u>SITA</u>
		IVNI
		<u>ILTN</u>
		TOVA
		<u>TOVA</u>

And here is one contributed by Fred Pheasey, Inverness P. O., Skeena River, British Columbia. The letters arranged around the adjoining circle conceal three radio calls. Starting at a certain letter count round and round the circle clockwise, striking out every eleventh letter and the station calls will appear.



## Chat And Comment (Continued from page 13)

open). This makes the volume control act as a regeneration control. The increase in sensitivity that this arrangement gives is simply amazing. Just the other morning I had little CKPR in Fort William with only 50 watts so loud and clear at 2:05 a. m. you could have heard it outside the house! (That's too loud for two a. m.—Ed.) The same morning I had 26 stations over 2000 miles away in three hours—14 in California alone. But the increase in selectivity is even greater. On any night after six p. m., I can cut out the locals and get WBBM, WBAP, WCCO, WWL, WENR, WCFL and WJJD."

Mr. Todd has been DXing since April 1931 and has logged 467 stations in seven different countries. He would like to hear from other owners of Philco No. 20. He is now taking the course in the National Radio Institute and hopes before long to be a full-fledged radio engineer.

### Those Filipinos

Station KZRM in Manila, Philippine Islands, advises us that they are on the air daily from 6:30 to 7:30 a. m., from 12:15 to 1:15 p. m. and from 3:00 to 10:30 p. m. They are using 50,000 watts in the antenna and broadcasting on 618.5 kcs. According to the RADEX Time Converter, listeners would have to pick up these programs the day before they were sent! In the Eastern Standard Zone, the above times would be 5:30 to 6:30 p. m., 11:15 p. m. to 12:15 a. m., and 2:00 to 9:30 a. m. respectively. Unfortunately, KZRM states that they do not verify reception. Neither do they have stamps.

Carroll H. Weyrich, 6 N. Gorman Ave., Baltimore, Md., and several other readers, ask why we no longer list the Philippine stations in the Index by Frequencies. These stations, although they belong to the U. S., are so far away as to be really foreign stations. We try to include in



the frequency list only those stations that ought to be heard more or less regularly in this country. Many of our readers try to complete our different channels and it is hardly fair to list stations therein (and thus keep them from achieving 100%) which cannot be tuned in. By the way, how many have heard KZRM?

### Need Uniform Rules

A debate is now raging over the position of this magazine in making the rule that stations are not to be counted the second time when they change call letters but may be counted again if they change locations. The correspondence on this subject will be analyzed and published in the January issue. In the meantime, we will be glad to receive arguments pro and con on this rule.

## *They Want to Know . . .*

**S**AYS Paul Cintrat, 640 Fort Washington Ave., New York City: "I have been DXing for almost three years and have over 300 stations. Can you tell me what station I hear nearly every night between 920 kcs. and 910. I tune in on XEW on 910 and WWJ on 920 and between them comes a station, the language of which seems to be Spanish. Is it possible that this station is TICR the 50-watter of San Juan, Costa Rica?" And from Raymond M. Bell, 616 S. Allen Street, State College, Pa., is this inquiry: "I've been hearing regularly a Spanish station on 915 between XEW and WWJ. Who, what and where is it?" Has any other reader identified this mysterious stranger? A number of our readers have heard TICR and perhaps this is the station although it hardly seems likely that this little and distant station should come in so distinctly.

"On October 23rd I picked up a station coming in on from 1620 to 1640 kcs.," advises Edgar Lane, Clark, S. D. "It was broadcasting on a chain when I heard the following: A

talk on the choice of a world polo team; a talk by Gar Wood; one by Mr. Johnson of the American Legion, and then someone asked Babe Ruth what he thought of the Chicago Cubs. At one announcement I thought I heard the call letter as 'K.' If you can help me out on this I would appreciate it very much."

"Have any Arizonians tuned in foreign stations on the b.c. band?" inquires H. Cowan Drachman, Box 1870, Tucson, Ariz. "The general contention here is that southern Arizona is very bad for reception due to the extreme difficulty of getting a damp ground and naturally bad atmospheric conditions together with many ore deposits. I was wondering if this was just propoganda or if southern Arizona is naturally a bad place for DX. We have one advantage in being 500 miles away from any really powerful stations." How about it, Arizonians?

"Wonder if any RADEX readers have heard a station on about 1065 kcys., which comes in between WTIC and WTAM?" inquires Olin Coleman, Young Harris, Ga. "The two latter stations interfered with it so that I couldn't get the location. I would like to hear from any DXers and promise to answer all letters. I would especially like to hear from someone in Alaska or Hawaii."

"What is the possibility of receiving a harmonic of CKAC (730) on about 1250 kcys.?" inquires Ben Van Wormer, 664 Valley Road, Upper Montclair, N. J. "Tonight (October 14th) I heard a French speaking announcer on 1250. Please tell me if you think this might be a harmonic. I think I heard the announcer say something about the Canadian Pacific."

We are asking Mr. Dashiell to write a short article for the January number regarding this phenomenon of harmonics explaining to us in simple terms just what may be expected and what may not.

"I picked up YV1BC, Caracas, on their DX program, and since then

have been able to pick them up almost every night and as early as 6:00 p. m. EST," writes Joseph J. Connolly, 14203 231st St., Rosedale, N. Y., and asks, "Can any of your readers identify a Spanish speaking station on 625 kcys.? I picked it up October 17th at 9:00 p. m. EST."

"On the morning of October 23rd I listened to a program on 1360 kcys., somewhere between 2:30 and 3:30 a. m. It was presenting the Wilson Oil program with phonograph records. I believe this was KGIR or KGER. Could you help me?" asks Jack Aird, 12600 Pinehurst, Detroit, Mich. "I am 12 years old, and use a U. S. 5-tube superheterodyne."

"How is this for one aerial 75 feet long, with two sets on it—one set playing WCCO and the other EAQ in Spain?" Charles Horton, 1329 South Jefferson St., Saginaw, Mich. Well, if you ask us, we would say that it was some feat and ought to go in "Believe It or Not."

"Can you tell me," inquires Ermin David, RR 2, Gering, Nebr., "what station interferes with KLZ, Denver? This interference starts about 5:45 p. m. MST, and continues until midnight, at which time KLZ signs off."

## New Tubes For Old

*(Continued from page 25)*

placement of -35s by 58s is better.

The type 46 tube can be used to replace the -45. An adapter has been designed to make the necessary connections between the 5-prong receptacle on the top of the 4-prong base beneath. The grid nearest the plate and the plate are connected together and brought down through the adapter to the plate prong. The 46 may be substituted when one -45 is used, or in a push-pull combination with two -45s.

It must be remembered that when substituting new tubes for older types the expected advantage may not be noticed. Some good radio circuits are carefully designed around the characteristics of certain tubes, and

the introducing of new types with slightly different characteristics may tend to upset the balance sufficiently to offset the beneficial results that otherwise might be obtained. In the average circuit, however, using types 56, 57 and 58 to replace types -27, -24 and -35 should prove generally satisfactory. The increased height of the new tubes because of the adapter will necessitate new shielding cans when types 57 or 58 are substituted.

Among the manufacturers of adapters are Alden Products Co., Brockton, Mass., and the Insuline Corp. of America, 25 Park Place, New York, N. Y. Dealers who should have them in stock are Federated Purchase, 25 Park Place, N. Y. City. Wholesale Service, 100 Sixth Ave., N. Y. City. Radolek Company, 601 W. Randolph St., Chicago, and Allied Radio Co., 831 W. Jackson Blvd., Chicago.

## On The Short Waves

*(Continued from page 19)*

shortwave stations heard on a b. c. set."

"When the combination sets were first mooted a few years ago," writes Jim Hedley, 121 23rd W., North Vancouver, B. C., "I made up my mind to have one as soon as they came out. I bought a Stewart-Warner and while I didn't get quite the thrill I received when I built my first crystal set, it was enough to satisfy me that, sooner or later, the S. W. will come into its own with a bang once the public is educated to its oddities."

"I have had my radio for a year and a half and have tuned in on many stations from Russia to PRDA, Brazil, which is a rather wide range," says Edward Collins, 16 Balsam St., St. John's, Newfoundland. "I have an Atwater Kent, model 84, midget, and an A. K. model 93 shortwave converter."

"I have been DXing for about a year now and have been able to hear 257 stations in four countries," reports Bruce Levitt, 45 York St., St.

Catharines, Ont. "Included in this list are nine police shortwave stations. Not included in this list are eight amateur broadcasters. All these stations were heard on a b. c. set (Earl 31A)."

"I use the larger part of my radio time on the shortwave," says Fred B. Tuck, 15 Eaton Place, Bangor, Maine. "I am listening now to a program coming from Rome, Italy, 3:05 p. m. EST. I have tuned in Australia 45 times since June 4, 1932, Melbourne and Sydney, also many others."

## The Human Side

*(Continued from page 16)*

Angeles, Tommy was billed as "The World's Youngest Baritone." During this period he attended concerts and recitals by eminent baritones, among them Reinald Werrenrath. He would sit with pencil and paper, eagerly take down notes, and return home to attempt those selections himself. His first professional appearance was at the Pacific Coast Radio Show, where aged fifteen, with a great big voice he sang "Toreador."

He played football at Loyola College, and starred in their entertainments. The family moved to Detroit in 1926, and he enrolled in the University there. Thereafter, he renewed radio connections, singing and announcing at stations WMBC and WJR. A serious illness interrupted his work, and after a great struggle to regain his health he went to New York to search for a suitable teacher, and found one in William Whitney. The latter spent much of his time at the New England Conservatory, and urged Tommy to take a complete course there. Tommy assented, and determined then and there his profession.

Having completed his course, he sang with Vincent Lopez and accompanied him on tour. Returning he joined Major Bowes at the Capitol Theatre. After an appearance at the Roxy, Tommy heard of the sudden

death of his favorite brother, whom he had always adored. He returned to Detroit, and sang his Requiem. After this disheartening experience, he returned to New York and absorbed himself in work.

He sums himself up as "just a crazy Irishman who likes to sing." He is stocky, grey-eyed, and has an infectious grin. . . loves classic music best and is convinced people are slowly becoming educated to it. . . his favorite book is "Story of San Michele". . . has great regard for the work of Andre Kostelanetz, who conducts the Threads of Happiness Orchestra. . . would rather eat potatoes and gravy than anything else. . . favorite colors are black, brown, and grey. . . won't sing without ring on little finger. . . is a bachelor. . . raves about football, and is an incurable fight fan.

At present Tommy may be heard over the C.B.S. each Tuesday at 9:15 P. M. EST.

## First Aid

*(Continued from page 22)*

is used the two wires leading from it are connected to the two binding posts. When the radio set is to be used only these two leads are removed and the two binding posts connected together with a short piece of wire, or a switch can be arranged to connect the binding posts when the phonograph is not in use.

Locate the -24 automatic volume control tube, which is the front left-hand tube when looking down upon the set from the front. A wire should be run from the cathode connection of this tube's socket to a small switch and then grounded. Close the switch so as to ground the cathode when the phonograph is used, and open when the radio is used.

### Last Minute Dx Programs

Monday, Dec. 5th, 11:00—Mid. AST  
WKAQ, 1240, Puerto Rico  
Saturday, Dec. 10th, Mid.—2:00 EST  
CFLC, 915, Prescott, Ont.

# DECEMBER 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

Dec. 4th

Mid.-2:00 E—CMCH, 1405, Havana, Cuba.  
Mid.-2:00 P—KPCB, 650, Seattle, Wash.

Dec. 4th, 11th, 18th, 25th

11:30-Mid. C—KSOO, 1110, Sioux Falls, S. D.  
Mid.-1:00 E—WSAZ, 580, Huntington, W. Va.  
Mid.-2:00 C—WGES, 1360, Chicago, Ill.

## MONDAY NIGHT

Dec. 19th

4:30-6:30 M—10BI, 1200, Prince Albert, Sask.

Dec. 26th

2:00-3:00 M—KPOF, 880, Denver, Colo.  
2:00-5:00 E—WAGM, 1420, Presque Isle, Me.

Dec. 5th, 12th, 19th, 26th

Mid.- P—CFJC, 1120, Kamloops, B. C.  
Mid.-2:00 M—KOY, 1390, Phoenix, Ariz.  
Mid.-2:30 E—WMIL, 1500, Brooklyn, N. Y.  
Mid.-4:00 C—WBAZ, 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

Dec. 6th

3:00-6:00 E—WOPI, 1500, Bristol, Tenn.

Dec. 13th

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

Dec. 27th

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

Dec. 6th, 13th, 20th, 27th

11:00-Mid. C—XEBH, 1132, Monterrey, Mexico.  
Mid.-1:00 P—CFJC, 1120, Kamloops, B. C.  
Mid.-3:00 C—WSUI, 880, Iowa City, Iowa.  
2:00-3:00 C—KFGQ, 1310, Boone, Iowa.

## WEDNESDAY NIGHT

Nov. 30th

Mid.-2:00 C—KFJZ, 1370, Fort Worth, Texas.

Dec. 14th

Mid.-2:00 P—KIT, 1310, Yakima, Wash.  
1:00-3:00 C—WHET, 1210, Troy, Ala.  
3:00-5:00 C—KFBI, 1050, Abilene, Kans.

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

10:30-Mid. C—KFUO, 550, St. Louis, Mo.  
11:00-Mid. C—WHBL, 1410, Sheboygan, Wis.  
11:30-1:30 P—CKWX, 730, Vancouver, B. C.  
Mid.- M—KFXX, 1310, Grand Jet, Colo.  
1:30-3:30 C—KGFJ, 1420, Shawnee, Okla.

## THURSDAY NIGHT

Dec. 1st

11:00-Mid. P—CHWK, 665, Chilliwack, B. C.  
2:00-4:00 E—CMJF, 900, Camaguey, Cuba.

Dec. 8th

2:00-4:00 E—CMJN, 1270, Camaguey, Cuba.

Dec. 1st, 15th

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

Dec. 1st, 15th, 29th

2:00-4:00 C—KGFK, 1500, Moorhead, Minn.

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

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

## FRIDAY NIGHT

Dec. 2nd

2:00-4:00 E—CMJE, 1150, Camaguey, Cuba.  
2:00-4:00 E—10BQ, 1260, Brantford, Ont.

Dec. 9th

Mid.-1:00 C—WJAG, 1060, Norfolk, Nebr.  
1:00-3:00 M—10BI, 1200, Prince Albert, Sask.  
2:00-4:00 C—WHBF, 1210, Rock Island, Ill.

Dec. 16th

3:00-4:00 M—KGCU, 1240, Man'lan, N. D.  
5:00-6:00 E—WJBU, 1210, Lewisburg, Pa.

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

1:00-Mid. M—CFCN, 985, Calgary, Alta.  
11:30-12:30 C—WCAJ, 590, Lincoln, Neb.  
11:30-1:30 M—KGEK, 1200, Yuma, Colo.  
Mid.-1:00 C—WENC, 1420, Americas, Ga.  
1:00-3:00 E—CKCL, 1200, Toronto, Ont.  
1:00-4:00 E—CKPR, 890, Fort William, Ont.

## SATURDAY NIGHT

Dec. 3rd

Mid.-2:00 C—WILL, 890, Urbana, Ill.  
2:00-3:00 E—CHML, 880, Hamilton, Ont.  
2:30-3:30 A—CHGS, 1120, Summerside, P. E. I.  
4:00-5:00 C—CKX, 930, Brandon, Man.

Dec. 10th

1:00-3:00 E—CMCY, 1325, Havana, Cuba  
1:00-3:00 M—XEL, 1000, Juarez, Mex.  
3:00-4:00 E—WTEL, 1310, Philadelphia, Pa.  
4:00-5:00 E—CFBO, 890, St. John, N. B.

Dec. 17th

2:00-3:00 E—WTOC, 1260, Savannah, Ga.  
3:00-4:00 E—WHAZ, 1300, Troy, N. Y.  
3:00-5:00 C—KGFJ, 1500, Corpus Christi, Tex.

Dec. 24th

10:30-6:00 C—WHBQ, 1370, Memphis, Tenn.  
2:00-2:30 E—WFAS, 1210, White Plains, N. Y.  
2:00-3:00 C—KDLR, 1210, Devils Lake, N. D.

Dec. 31st

11:00-3:00 C—WIBW, 580, Topeka, Kans.

Dec. 10th, 24th

Mid.-2:00 C—KUSD, 890, Vermilion, S. D.  
4:30-6:00 E—10BP, 1199, Wingham, Ont.

Dec. 3rd, 10th, 17th

12:30-2:30 M—10AB, 1200, Moose Jaw, Sask.

Dec. 3rd, 10th, 17th, 24th, 31st

7:30-10:30 P—KGV, 750, Honolulu, T. H.  
11:30-1:30 P—CKWX, 730, Vancouver, B. C.  
11:30-2:00 C—WBBZ, 1200, Ponca City, Okla.  
Mid.-12:30 C—WKY, 900, Oklahoma City, Okla.  
Mid.-1:00 P—CFCT, 630, Victoria, B. C.  
Mid.-1:30 P—KDB, 1500, Santa Barbara, Cal.  
Mid.-2:00 P—KFXM, 1210, San Bernardino, Cal.  
Mid.-1:00 C—WGBF, 630, Evansville, Ind.  
Mid.-1:00 E—WJBK, 1370, Detroit, Mich.  
Mid.-2:30 P—CKOV, 1200, Kelowna, B. C.  
Mid.-2:00 C—KRLD, 1040, Dallas, Texas.  
Mid.-2:00 E—WCAH, 1430, Columbus, Ohio.  
Mid.-2:00 E—WGBL, 880, Scranton, Pa.  
Mid.-2:00 C—WGES, 1360, Chicago, Ill.  
Mid.-2:30 C—WOW, 1500, Omaha, Neb.  
12:01-3:00 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—MANI, 1210, Manitowoc, Wis.  
12:30-2:00 C—KMAC, 1370, San Antonio, Tex.  
12:30-3:00 M—10BI, 1200, Prince Albert, Sask.  
1:00 E—KQV, 1380, Pittsburgh, Pa.  
1:00-2:00 M—KFXF, 920, Denver, Colo.  
1:00-3:00 E—WIBG, 930, Glenside, Pa.  
1:00-2:00 M—KGCX, 1310, Wolf Point, Mont.  
1:00-5:00 C—WTRC, 1310, Elkhart, Ind.  
2:00-3:00 C—WKBZ, 1500, Ludington, Mich.  
2:00-4:00 M—KVOA, 1260, Tucson, Ariz.

# WHAT'S ON THE AIR TONIGHT?

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

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

Call	Dial	Call	Dial

Call	Dial	Call	Dial

Call	Dial	Call	Dial

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

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

## MONDAY

**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 KVOO KWK WAPI  
WBAL WBZ WBZA WCKY WDAY  
WECB WFAA WFLA WGAR WHAM  
WIBA WIOD WIS WJAX WJXD  
WJR WJZ WKY WMC WOAI 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 KFAB KFBK KFH  
KFJF KFRC KJL KLRA KLZ KOL  
KRLD KSCJ KTRH KVOR WAB  
WBBM WBIG WBZ WCAH WCAO  
WDBJ WDBO WDOD WDRC WDSU  
WEAN WFAN WFBL WFEA WGR  
WGST WHAS WHEC WIBW WIP  
WISN WJAS WKBH WKBN WLWB  
WNAC WNAX WNOX WODX WOKO  
WORC WOWO WPG WQAM WREB  
WSFA WTAQ WTAR WTOC WWVA

**B—National Farm and Home Hour**

KDKA KFYR KOA KOIL KPRC  
KSTP KTBS KTHS KVOO KWCR  
KWK KYW WAPI WBAL WBZ  
WBZA WCKY WDAF WDAY WECB  
WFAA WFLA WGAR WHAM WHO  
WIBA WIOD WIS WJAX WJXD  
WJR WJZ WKY WLW WMC WOAI  
WOC WOW 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**

CKGW KDKA WBAL WBZ WBZA  
WCKY WGAR WHAM WIS WJAX  
WJR WJZ WRVA WWNC

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

**C—Irene Beasley**

CFRB CKOK KFAB KFH KFJF  
KLRA KMBC KSCJ KTRH KVOR  
WAB WDAE WBBM WBIG WBRB  
WBT WDAE WDBJ WDBO WDOD  
WDRC WDSU WFAN WFBL WFEA  
WGST WHAS WIBW WIP WISN  
WJAS WKBH WKBW WLWB WNAX  
WNOX WOKO WORC WOWO WQAM  
WREC WSFA WTAQ WTAR WTOC

**R—Waldorf-Astoria Orchestra**

KSD KYW WBEN WCAE WDAF  
WEAF WEEL 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—Riviera Orchestra**

CFRB CKOK KFH KLZ KMBC

KOMA KSCJ KSL KVOR WAAB  
WACO WADC WBCM WBIG WBRC  
WCAO WDAE WDBJ WDBO WDOD  
WDRB WDSU WFAN WFBL WGR  
WHEC WHP WIP WISN WJAS  
WKBH WLAC WLWB WLWB WMT  
WNAX WNOX WODX WOKO WORC  
WQAM WREC WSBT WSJS WTAQ  
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 WDBO WDOD WDSU  
WFEA WGST WORC WREC WSFA  
WTAR WTOC

**R—Harding Sisters, Piano Duo**

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

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

**C—The Funnyboners**

CFRB CKOK KFAB KFH KFJF  
KLRA KLZ KSCJ KTRH WAAB  
WABC WBBM WBIG WBRC WBT  
WCAH WCAO WDAE WDBJ  
WDBO WDOD WGST WHAS WHP  
WISN WJAS WKBH WKBN WKBW  
WLWB WNAX WNOX WOKO WORC  
WOWO WQAM WREC WSFA WSPD  
WTAQ WTAR WTOC WWVA

**B—Lowell Thomas**

CKGW KDKA WBAL WBZ WBZA  
WGAR WHAM WJR WJZ WLW  
**R—G. E. Circle**  
WBEN WCAE WCBS WEAF WFBR  
WFI WSAI WTAG WTAM WTIC  
WWJ

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

**R—G. E. Circle**

KDYL KFI KFYR KGO KGW KHQ  
KOA KOMO WDAF WDAY WECB  
WGY WIBA WMAQ WOW WTMJ

**C—Myrt and Marge**

CKOK KRLD WABC WADC WBT  
WCAO WCAU WDRC WEAN WFBL  
WGR WHK WJAS WKRC 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**

**R—Wheatonville, Ray Knight**

KHQ WDAF WEAF WEEL WGY  
WHO WJAR WLIT WMAQ WOC  
WOW WRC WTAM

**B—Tastyest Jesters**

KDKA WBAL WBZ WBZA WCKY  
WJZ

**C—Buok Rogers in Year 2432**

CKOK WABC WGR WHK WNAC

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

**C—Three X Sisters**

WABC WCAO WCAU WDRC WEAN  
WFBL WFEA WGR WHEC WHP  
WJAS WLWB WNAC WOKO WORC

**R—Billy Jones and Ernie Hare**

WBEN WCAE WCBS WDAF WEAF  
WEEL WFBR WFLA WGY WIOD  
WIS WJAR WLIT WMAQ WOW  
WRC WRVA WSAI WTAG WTAM  
WTIC WWNC

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

**R—The Goldbergs**

KSD WBEN WCAE WCBS WDAF  
WEAF WEEL WENR WFBR WGY  
WJAR WLIT WOW WRC WSAI  
WTAG WTAM WWJ

**B—Johnny Hart in Hollywood**

WBZ WBZA WGAR WHAM WJZ  
WMAQ

**C—Popular Classics**

CFRB CKOK KFH KMBC KMOX  
KOMA KSL KVOR WACO WADC  
WBBM WBCM WBIG WBRC WBT  
WCAO WCOO WDAE WDBJ WDBO  
WDOD WDRC WDSU WFAN WFBL  
WFBM WFEA WGR WHEC WHK  
WHP WIBW WIP WISN WJAS WLAC  
WLWB WLBW WMT WNAX WNOX  
WODX WOKO WORC WQAM WREC  
WSJS WTAQ WTAR WTOC WWVA

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

**C—Whispering Jack Smith**

CKOK KMOX WABC WADC WCAO  
WCAU WEAN WFBL WFBM WGN  
WGR WHAS WHK WJAS WJSV  
WKRC WNAC WOKO WSPD  
**R—Soonyland Sketches**  
WBEN WCBS WEAF WEEL WGY  
WJAR WTAG WTIC

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

**C—Singin' Sam**

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

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

**C—Kate Smith, La Palina**

CKOK KFAB KFH KFJF KMBC  
KMOX WABC WADC ABGM WCAH  
WCAO WCAU WCOO WFBL WFBM  
WGN WGR WHAS WHEC WHK

**MONDAY—Continued**

WISN WJAS WKBN WKRC WOKO  
WSPD  
**R — The Revelers, Quartet**  
CFCF CKGW KPRC KSD KTBS  
KTHS KVOO WAFI WBEN WCAE  
WCSH WDAF WDAF WEAF WEBC  
WFBR WFLA WGY WHO WIOD  
WIS WJAR WJAX WJDX WKY  
WLIT WMAQ WMC WOAI WOC  
WOW WPTF WRC WRVA WSAI  
WSB WSM WSMB WTAG WTAM  
WTIC WWJ WWNC  
**B — Red and Ramona**  
KDKA KFYP 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 CROK KMBC KMOX KRLD  
WABC WADC WCAO WCAU WDCR  
WEAN WFBL WGN WHAS WHK  
WJAS WJWV WKBW WKRC WNAC  
WOKO WOWO WSPD

**E-9:00 p.m., C-8:00 M-7:00, P-6:00**  
**R — A. & P. Gypsies**  
KSD WBEN WCAE WCSH WEAF  
WEEL WGY WHO WJAR WLIT  
WMAQ WOC WOW WRC WSAI  
WTAG WTAM WTIC WWJ  
**B — Sinclair Winner Minstrels**  
KDKA KFYP KOIL KPRC KSTP  
KTBS KVOO KWCR KWK WBAL  
WBZ WBZA WDAY WEBC WFAA  
WFLA WGAR WHAM WIBA WIOD  
WIS WJAX WJDX WJZ WKY WLS  
WMC WOAI WPTF WRN WRVA  
WSB WSM WSMB WTMJ WWNC

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

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**C — Evening in Paris Mystery**  
CROK KMBC KMOX WABC WADC  
WBT WCAO WCAU WCCO WEAN  
WFBL WGN WHAS WHRC WHK  
WKBW WKRC WNAC WOKO WOWO  
WSPD  
**R — Paul Whiteman; Rea-Munn**  
KDYL KFI KFSD KFYP KGHL  
KGRH KGO KGW KHQ KOA KOMO  
KSD KTAZ KTBS WBEN WCAE  
WCSH WDAF WDAY WEAF WEBC  
WEEL WFAA WFBR WFLA WGY  
WHO WIOD WJAR WJAX WJDX  
WKY WLIT WMAQ WOAI WOC  
WOW WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WTMJ WWJ

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**R — Carnation Contented Program**  
CFCF CKGW KFYP KPRC KSD  
WBEN WCAE WEAF WEBC WENR  
WFAA WGY WIOD WJAX WKY  
WMC WOAI WRVA WSAI WSB WSM  
WTAM WTMJ WWJ  
**C — Music That Satisfies**  
CROK KDB KERN KFRK KFH  
KFIF KFPY KFRC KGB KHJ KLRA  
KLZ KMBC KMJ KMOX KOH  
KOLN KOL KRLD KTRH KTSR KVI  
KWG WABC WADC WBRW WBT

WCAO WCAU WCCO WDBJ WDCR  
WDSU WEAN WFBL WFBM WGN.  
WGST WHAS WHEC WHK WISN  
WJAS WKBW WKRC WLAC WLWB  
WMBG WMT WNAC WOKO WOWO  
WPG WRFC WRUF WSPD WTAZ  
**B — Phillips Lord, Country Doctor**  
CFCF CKGW KDKA KOIL KWCR  
KWK WBAL WBZ WBZA WKCY  
WGAR WHAM WJR WJZ WMAQ  
WREN

**E-10:15 p.m., C-9:15, M-8:15, P-7:15**  
**C — Easy Aces**  
CFRB CROK KDB KERN KFRK  
KFPY KFRC KGB KHJ KLZ KMBC  
KMJ KMOX KOIN KOL KSL KVI  
KWG WAAB WABC WADC WCAO  
WCAU WCCO WDCR WEAN WFBL  
WFBM WGN WHAS WHK WJAS  
WKBW WKRC WOKO WOWO WSPD

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**C — Charles Carlile, Tenor**  
KLRA WAAB WABC WDAE WDBJ  
WDBO WDOD WDCR WDSU WFEA  
WGST WLAC WLZ WORC WQAM  
WRFC WJFA WSJS WTAR WTOC  
**R — Alice Joy**  
KSD WBEN WCAE WEAF WEEL  
WFBR WGY WJAR WMAQ WTAM  
WWJ  
**B — Radio Rubes—Hill Billies**  
CFCF KDKA KFYP KOIL KTBS  
KWCR KYW WBAL WBZ WBZA  
WCKY WGAR WHAM WIBA WIOD  
WIS WJAX WJDX WJR WJZ WKY  
WMC WREN WSB WSM WWNC

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**C — Myrt and Marge**  
KDB KERN KFRK KFPY KFRC  
KGB KHJ KLZ KMBC KMJ KMOX  
KOIN KOL KSL KVI KWG WBBM  
WCCO WDSU WFBM WHAS WLAC  
**C — Col. Stoopnagle and Budd**  
CFRB CROK WAAB WABC WADC  
WBCM WDCR WFBL WFEA WHEC  
WHK WJAS WKBW WLZ WOKO  
WORC  
**B — Mildred Bailey**  
CFCF 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 — Howard Barlow's Symphony**  
CFRB CROK KLRA KLZ KMBC  
KSCJ KTRH KVOR WAAB WABC  
WACO WADC WBCM WCAH WCAO  
WDAE WDBJ WDBO WDOD WDCR  
WDSU WFAN WFBL WFBM WFEA  
WGST WHAS WHEC WHK WHP  
WIBW WIP WISN WKBW WKRC  
WLAC WLZ WMT WNAX WOKO  
WORC WPG WQAM WRC WSBT  
WSFA WSJS WTAR WTOC  
**B — Amos 'n' Andy**  
KDYL KFI KFSD KGO KGW KHQ  
KOA KOIL KOMO KPRC KSTP  
KTHS KWK WBAP WDAF WEBC  
WENR WIBA WJDX WKY WMAQ  
WMC WOAI WREN WSB WSM  
WSMB WTMJ  
**R — Roger Wolfe Kahn Orchestra**  
KSD WCKY WEAF WFBR WHO  
WOC WRC WTAG WWJ  
**B — Pickens Sisters**  
CFCF WBAL WFLA WGAR WHAM

WIOD WIS WJAX WJZ WRVA  
WWNC

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**B — National Opera**  
CKGW KWCR KWK WBAL WCKY  
WENR WGAR WHAM WIS WJR WJZ  
WREN WWNC  
**R — Billy Jones and Ernie Hare**  
KDYL KFI KFSD KGO KGW KHQ  
KOA KOMO KTAZ

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Guy Lombardo and Orchestra**  
CFRB CROK KFH KLRA KLZ  
KMBC KSCJ KTRH KVOR WAAB  
WABC WACO WADC WBCM WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDCR WDSU WGST  
WHAS WHEC WHK WHP WIBW  
WISN WKBW WKRC WLAC WLZ  
WMBD WMT WNAX WOKO WORC  
WPG WQAM WRC WSBT WSFA  
WSJS WTAR WTOC  
**R — Clyde McCoy and Orchestra**  
KSD WBEN WCAE WDAF WEAF  
WENR WFBR WJAR WRC WTAG  
WTAM WWJ

**E-12:00 p.m. C-11:00 M-10:00 P-9:00**  
**R — Donald Novis Tenor**  
KFYP KGO KOA KPRC KSD KSTP  
KTBS WCAE WDAF WEAF WEBC  
WFBR WFLA WHO WIBA WIOD  
WJAR WMAQ WMC WOC WSB  
WSMB WTAM WWNC  
**B — Jack Denny and Orchestra**  
KDKA KWCR KWK KYW WBAL  
WBZ WBZA WGAR WJZ WRC WREN  
**C — Eddie Duchin and Orchestra**  
CROK KPAB KFRK KFH KFJF  
KLRA KMBC KMOX KOL KRLD  
KSCJ KTRH KVOR WABC WBCM  
WBRW WBT WCAH WCAU WCCO  
WDAE WDBJ WDBO WDOD WDSU  
WEAN WFBL WFBM WGL WGST  
WHAS WHEC WHK WIBW WISN  
WKBN WCBW WLZ WMBD  
WNAC WNAX WNOX WOKO WPG  
WQAM WRC WSFA WSPD WTAR  
WTOC WWVA

**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-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, Kattenborn**  
CROK KFH KGB KLZ KMBC KOH  
KSCJ KTRH KVOR WAAB WABC  
WACO WBIG WBRW WBT WCAH  
WCAO WDAE WDBJ WDBO WDOD  
WDCR WFAN WFBL WFEA WHAS  
WHEC WIBW WIP WISN WJAS  
WKBN WKBW WLAC WLZ WLZ  
WMT WNAX WNOX WOKO WRC

**TUESDAY—Continued**

WOW WQAM WREC WSBT WSFA  
WSJS WTAQ WTAR WTOG WWVA  
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 WREC WSFA WTAR  
WTOG

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
R — Back of the News in Washington  
KFI KFSD KGHl KGIR KGO KOA  
KSD KTAR WAPI WEAf WFBf  
WFI WIOD WIS WJAF WJDX  
WMAQ WOV WPTF WRC WSM  
WSMB WTAG WWNC  
B — Lowell Thomas, See Monday  
C — Keenan and Phillips  
COK KFH KLZ KMBC KSCJ  
KTRH KVOR WAAB WACO WABC  
WBCW WCAH WCAO WDAE WDBJ  
WDBO WDOD WDSU WFBM WFEA  
WGST WHAS WHP WISN WJAS  
WKQB WKRC WLAC WLWB WLBZ  
WMT WNAX WORC WQAM WREC  
WSBT WSJS WTAQ WTAR WTOG

**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 WBEN WEAf 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  
C — Buck Rogers See Monday

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
B — Betty Boop  
KDKA KDYL KGO KOA KPRC  
KVOO KWK WBAL WFAA WGAR  
WIOD WIS WJZ WMC WREN WRVA  
WSB WSM WSMB WWNC  
R — Ray Perkins  
KSD KYW WBEN WCAE WCSH  
WEAF WEEI WFBF WFI WGY  
WJO WJAR WOC WOV WRC WSAI  
WTAG WTAM WWJ

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
C — Chase & Sanborn, Georgie Price  
COK KMBC KMOX WABC WBBM  
WCAO WCAU WGR WHK WJAS  
WKRC WNAC WOKO  
R — The Goldbergs, See Monday  
B — Johnny Hart, See Monday

**E-8:00 p.m., C-7:00 M-6:00, P-5:00**  
R — Blackstone, Sanderson-Crumit  
KSD KSTP KYW WBEN WCAE  
WCSH WDAF WEAf WEEC WEEI  
WFI WGY WHO WJAR WOC WOV  
WRC WSAI WTAG WTAM WWJ  
B — You and Your Government  
CFCF CKGW KDKA KDYL KEX  
KFSD KGIR KJR KOA KOIL KFO  
KTAR KTBS KWCR KWK WBAL  
WBZ WBZA WCKY WENR WFLA  
WGAR WHAM WIOD WIS WJZ  
WKY WMC WPTF WREN WSB  
WSM WWNC  
C — Abe Lyman and Orchestra  
COK KMBC KMOX WABC WADC

WCAO WCAU WDRC WEAN WFBL  
WFBM WGN WGR WHAS WHK  
WJAS WKRC WNAC WOKO WSPD

**E-8:15 p.m., C-7:15, M-6:15, P-5:15**  
C — Magic Voice Drama  
CFRB COK KFH KLZ KMBC  
KOMA KSCJ KTSa KVOR WABC  
WACO WADC WBBM WBCM WBIG  
WBRC WBT WCAO WCCO WDAE  
WDBJ WDBO WDOD WDRC WDSU  
WLB WFEA WGR WHEC WHK  
WHP WIBW WISN WJAS WKHB  
WLAC WLWB WLBZ WMT WNAX  
WNOX WODX WOKO WORC WPG  
WQAM WREC WSBT WSJS WTAQ  
WTAR WTOG

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
C — Kate Smith, See Monday  
B — Adventurers in Health  
KDKA KOIL KWCR KWK WBAL  
WBZ WBZA WHAM WJR WJZ WLS  
WREN  
R — Wayne King and Orchestra  
KSD WBEN WCAE WCSH WEAf  
WEEC WEEI WFBF WFI WGY WHO  
WJAR WOC WOV WRC WRVA  
WSAI WTAG WTAM WTMJ WWJ

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
C — The Columbians  
CFRB COK KFH KLZ KMBC  
KMOX KOMA KRDL KSCJ KSL  
KTSa KVOR WABC WADC WBCM  
WBIG WBRC WCAO WCAU WCCO  
WDAE WDBJ WDBO WDOD WDSU  
WFBM WFEA WGR WHEC WHK  
WHP WIBW WISN WJAS WKHB  
WLAC WLWB WLBZ WMT WNAX  
WNOX WODX WOKO WORC WQAM  
WREC WSJS WTAQ WTAR WTOG

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
C — Music That Satisfies  
COK KDB KERN KFBK KFH  
KFJF KPFP KFRC KGB KHJ KLRA  
KLZ KMBC KMJ KMOX KOH KOIN  
KOL KRDL KSL KTRH KVI KWG  
WABC WADC WBRC WBT WCAO  
WCAU WCCO WDBJ WDRC WDSU  
WEAN WFBL WFBM WGN WGST  
WHAS WHEC WHK WISN WJAS  
WKQB WKRC WLAC WLWB WMBG  
WMT WNAC WOKO WOWO WPG  
WREC WSPD WTAR

**R — Ben Bernie and Orchestra**  
KFYR KOA KPRC KSTP WBAP  
WBEN WCAE WCKY WCSH WDAF  
WDAF WEAf WEEI WFBF 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  
COK KDB KERN KFBK KFH  
KFJF KPFP KFRC KGB KHJ KLRA  
KLZ KMBC KMJ KMOX KOIN  
KOL KRDL KSL KTRH KVI KWG  
WABC WADC WBRC WBT WCAO  
WCAU WCCO WDOD WDRC WDSU  
WEAN WFBL WFBM WGN WGST  
WHAS WHK WJAS WKQB WKRC  
WLAC WNAC WOKO WOWO WSPD  
WTAR

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
R — Ed Wynn-Don Voorhees  
CFCF KFI KFSD KFYR KGHl  
KGIR KGO KGW KHQ KOA KOMO  
KPRC KSD KSL KSTP KTAR KTBS  
KVOO WBAP WBEN WCAE WCSH  
WDAF WDAF WEAf WEEC WEEI  
WFBF WFI WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WMAQ WADC WBCM WBIG  
WBRC WBT WCAO WCAU WCCO  
WDAE WDBJ WDBO WDOD WDRC  
WDSU WFBL WFBM WFEA WGL  
WGST WHAS WHEC WHP WIBW  
WISN WJAS WKHB WKBW WKBW  
WNAC WNAX WNOX WODX WORC  
WQAM WREC WRUF WSPD WTAQ  
WTAR WTOG WWVA  
B — Friendship Town  
KDKA KOIL KWCR 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-oles  
CFRB COK KFAB KFBK KFH  
KFJF KPFP KEJ KLRA KLZ KMBC  
KMOX KOL KRDL KTRH KVOR  
WABC WACO WBCM WBIG WBRC  
WBT WCAH WCAO WCAU WCCO  
WDAE WDBJ WDBO WDOD WJZ  
WDSU WFBL WFBM WFEA WGL  
WGST WHAS WHEC WHP WIBW  
WISN WJAS WKHB WKBW WKBW  
WNAC WNAX WNOX WODX WORC  
WQAM WREC WRUF WSPD WTAQ  
WTAR WTOG WWVA

**R — Lucky Strike Dance Hour**  
KFI KFSD KFYR KGO KGW KHQ  
KOA KOMO KPRC KSD KSL KSTP  
KTAR KTBS KTBS KVOO WBAP  
WBEN WCAE WCSH WDAF WDAF  
WEAF WEEC WEEI WENR WFBF  
WFI WFLA WGY WHO WIBA WIOD  
WIS WJAR WJAX WJDX WKY  
WMC WOAI WOC WOV WRC WRVA  
WSAI WSB WSM WSMB WTAG  
WTAM WTMJ WWJ WWNC  
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**  
C — Edwin C. Hill  
CFRB COK KFH KLZ KMBC  
KOMA KSCJ KTSa KVOR WAAB  
WABC WACO WADC WBCM WBIG  
WBRC WBT WCAO WCAU WCCO  
WDAE WDBJ WDBO WDOD WDRC  
WDSU WFBL WFBM WFEA WHEC  
WHP WIBW WISN WJAS WKHB  
WKQB WLAC WLWB WLBZ WMBD  
WMT WNAX WNOX WOKO WORC  
WPG WQAM WREC WSBT WSFA  
WSJS WTAR WTOG  
B — Radio Rubes See Monday

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

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
C — Columbia Symp. Orch., See Mon.  
B — Amos 'n' Andy, See Monday  
B — Pickens Sisters See Monday

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
R — Jack Denny and Orchestra  
KDYL KEX KGA KGHl KJR KPO-  
KSD WBEN WCAE WEAf WFBF  
WFI WGY WHO WJAR WOC WOV  
WTAG WTAM WWJ  
B — National Opera See Monday

**TUESDAY—Continued**

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Isham Jones and orchestra**  
 CFRB CROK KFH KLRA KMBC  
 KSCJ KTRH KVOR WAAB WABC  
 WACO WADC WBCM WCAH WCAO  
 WCAU WCCO WDAE WDBJ WDBO  
 WDOA WDRD WDSU WGST WHEC  
 WHP WISN WKWB WKRC WLAC  
 WLBW WMBD WMT WNAX WOKO  
 WORC WPG WQAM WREC WSBT  
 WSFA WSJS WTAR WTOC

**E-12:00 m., C-11:00, M-10:00, P-9:00**  
**C — Don Redman and Orchestra**  
 CROK KLZ KMBC KMOX KSCJ  
 KTRH KVOR WABC WBCM WCAH  
 WCAU WCCO WDSU WFBL WGST  
 WHAS WHEC WHP WIBW WISN  
 WKWB WKRC WLAC WMBD WMT  
 WNAX WOKO WPG WREC WSBT  
 WTOC  
**R — George Olsen and Orchestra**  
 WCAE WEAF WFBR WGY WMAQ  
 WTAM WWJ WWNC

**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-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-8:00 p.m., C-5:00, M-4:00 P-3:00**  
**R — Waldorf-Astoria Orch. See Monday**  
**C — Vaughn DeLeath**  
 CFRB CROK KFH KLZ KSCJ KTRH  
 KVOR WAAB WABC WACO WADC  
 WBCM WCAH WCAO WDAE WDBJ  
 WDBO WDRD WDSU WFAN WFBL  
 WFLA WFSB WGST WHAS WHEC  
 WHK WHP WISN WJAS WKHB  
 WKWB WLAC WLWB WLZB WMT  
 WNAX WOC WQAM WREC WSBT  
 WSFA WSJS WTAQ WTAR WTOC  
 WWVA

**E-6:30 p.m. C-5:30 M-4:30 P-3:30**  
**B — Sheer Romance**  
 KDKA KOIL WBAL WHAM WJZ  
 WMAQ WREN  
**R — Harding Sisters See Monday**  
**C — Connie Boswell**  
 KSCJ WAAB WABC WBIG WBRC  
 WBT WDAE WDBJ WDBO WDOD  
 WDRD WDSU WFLA WLZB WNOX  
 WORC WQAM WREC WSJS WTAR  
 WTOC

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**R — G. E. Circle, See Monday**  
**C — Funnyboners, 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**  
**R — G. E. Circle, 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 WEBC  
 WGAR WIOD WJAX WJDX WJZ  
 WKY WMAQ WMC WOA1 WPTF  
 WREN WRVA WSB WSM WSMB  
 WTMJ WWNC  
**C — Buck Rogers, See Monday**  
**R — Ray Knight, See Monday**

**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 — Jack Fulton, Tenor**  
 KDKA KDYL KFYZ KGO KOA KPRC  
 KTBS KWK WBAL WCKY WENR  
 WGAR WHAM WIBA WJZ WKY  
 WOA1 WREN

**E-7:45 p.m., C-6:45, M-5:45, P-4:45**  
**C — Angelo Patri**  
 CROK KMBC KMOX WABC WCAO  
 WCAU WCCO WFBL WGR WHAS  
 WHK WJAS WKRC 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**  
**R — The Shadow**  
 WBEN WCHS WEAF WEEI WFBR  
 WGY WJAR WLIT WRC WTAG  
 WTIC  
**C — Jack Smith, See Monday**

**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**

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**R — Whitman's Sampler, Jack Denny**  
 KPRC KSD KTBS KVOO WBEN  
 WCAE WCKY WEAF WFAA WFBR  
 WFLA WGY WHO WIOD WIS WJAX  
 WJDX WKY WLIT WMAQ WMC  
 WOA1 WOC WOV WRC WRVA WSAI  
 WSB WSM WSMB WTAM WJZ  
 WWNC

**C — Edwin C. Hill**  
 CFRB CROK KFH KMBC KMOX  
 KOMA KRLL KSL KTSB KVOR  
 WABC WADC WBCM WBIG WBRC  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDOD WDRD WDSU WFBM  
 WFLA WGR WHK WIBW WISN  
 WJAS WKHB WLAC WLWB WLZB  
 WMT WNAX WNOX WODX WOKO  
 WORC WQAM WREC WSJS WTAQ  
 WTOC

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**C — Guy Lombardo-Burns and Allen**  
 CROK KFJF KMBC KMOX KTRH  
 KTSB WABC WADC WCAO WCAU  
 WCCO WDRD WEAN WFBL WFBM  
 WGN WHK WJAS WKWB WKRC  
 WHK WJAS WKWB WKRC WMAL  
 WNAC WOKO WOWO WRR WSPD  
**B — Sherlock Holmes**  
 CFCF CKGW KDKA KWCR KWK  
 WBAL WBZ WBZA WGAR WHAM  
 WJR WJZ WLW WREN

**E-9:30 p.m., C-8:30, M-7:30, P-6:30**  
**R — The Pridgets, Comedy Sketch**  
 KDYL KFI KFYZ KGO KGW KHQ  
 KOA KOMO KPRC KSD KSTP  
 KTAR KVOO WBEN WCAE WCHS  
 WDAF WDAY WEAF WEBC WEEI  
 WENR WFAA WFBR WFLA WGY  
 WHO WIBA WIOD WIS WJAR WJAX  
 WJDX WKY WLIT WMC WOA1  
 WOC WOW WRC WSAI WSB WSM

WSMB WTAG WTAM WTIC WTMJ  
 WWJ WWNC  
**C — Eno Crime Club**  
 CKOK KMBC KMOX WABC WADC  
 WCAO WCAU WDRD WEAN WFBL  
 WGN WHK WJAS WJVS WKWB  
 WKRC WNAC WSPD

**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 KGHL KGIR KGO KGW KHQ  
 KOA KOMO KSD KSL WBEN WCAE  
 WCHS WDAF WEAF WEEI WENR  
 WFBR WGY WHO WJAR WLIT  
 WOC WOW WRC WRVA WSA  
 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**

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**C — Charles Carlie, See Monday**  
**B — Radio Rubes 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 WEAF WGY  
 WLIT WJR WWJ  
**B — Amos 'n' Andy, See Monday**  
**B — Pickens Sisters, See Monday**

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**C — Angelo Patri**  
 KDB KERN KFBK KFPY KPRC  
 KGB KHJ KMJ KOIN KOL KSL  
 KVI KWJ  
**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 m., C-11:00 M-10:00 P-9:00**  
**C — Don Redman, See Tuesday**  
**B — Cab Calloway and Orchestra**  
 KPRC KTBS WAPI WEBC WJZ WKY  
 WMC WOA1 WSB WSM WSMB

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

**THURSDAY**

**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 — 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 WBAL WGAR  
 WJZ WKY WLW WMAQ WREN  
**R — Ralph Kirby, Baritone**  
 KEX \* KGA KJR KOA KPO KSD



**THURSDAY—Continued**

WCKY WDAF WFAF WFI WIOD  
WJS WJAR WMAQ WMC WRC  
WSMB WTAG WWNC

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

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

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

**E-7:30 p.m., C-6:30, M-5:30, P-4:30**  
**B** — Louise Bernhardt, *Contralto*  
KDKA KDYL KFI KFSD KFYR KGO  
KOA KPRC KTBS KWK WBAL  
WCKY WBCB WENR WGAR WHAM  
WIBA WIOD WIS WJZ WOAI WREN  
WSMB  
**R** — Ray Perkins, See Tuesday

**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

**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 KTAR KVOO WAPI WBAP  
WBEN WCAE WCKY WCSH WDAF  
WDAY WFAF WBCB WEEI WFBR  
WFI WFLA WGY WHO WIOD WJAR  
WJAX WJDX WKY WMAQ WMC  
WOAI WOC WOV WPTF WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WWJ  
**C** — Abe Lyman, See Tuesday  
**B** — Regimentalists, *Male Chorus*  
KDKA KOIL KWCR KWK WBAL  
WENR WGAR 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  
WGAR WHAM WJR WJZ WLS WLW  
WREN  
**C** — Canada Dry, Jack Benny  
CFRB CKAC CKOK KMBC KMOX  
WABC WACO WADC WCAO WCAU  
WCCO WDRB WEAN WFBL WFBM  
WGN WHEK WJAS WKRC 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 KWK KWK WBZ WBZA  
WGAR WHAM WJZ WLS WLW  
WREN

**E-8:45 p.m., C-7:45, M-6:45, P-5:45**  
**C** — Whitman's Sampler, Jack Denny  
CKOK KMBC KMOX WABC WADC  
WBIG WBRB WBT WCAO WCAU  
WDAE WDBJ WDBO WDOD WDRB  
WDSU WEAN WFBL WFBM WGN  
WGR WGST WHAS WHK WJAS  
WJSV WKRC WLAC WMBG WNAC  
WNOX WOKO WOWO WQAM WREB  
WSPA WSPD WTAR WTCO  
**B** — Howard Thurston, *Magician*  
KDKA KWK WBAL WBZ WBZA  
WGAR WHAM WJR WJZ WLS WLW

**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 KFSD KGO KGW KHQ  
KOA KOMO KPRC KSD KTAR KTBS  
WAPI WBEN WCAE WCSH WDAF  
WEAF WEEI WFBR WFI WFLA WGY  
WHO WIOD WIS WJAR WJAX  
WKY WMAQ WMC WOAI WOC WOW  
WRC WRVA WSAI WSB WSM  
WSMB WTAG WTAM WTMJ WWJ  
WWNC

**B** — Death Valley Days  
KDKA KOIL KWCR KWK WBAL  
WBZ WBZA WENR WGAR 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  
KPRC KGB KHJ KLZ KBMC KMJ  
KMOX KOIN KOL KSL KVI KWG  
WABC WADC WCAE WCAO WCAU  
WCCO WDRB WEAN WFBL WFBM  
WGN WHAD WHAS WHK WJAS  
WJSV WKBW WKRC WNAC WOKO  
WOWO WSPD

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C** — Andre Kostelanetz Presents  
CFRB CKOK KLRA KLZ KMBC  
KMOX KSCJ KTRH KTSB KVOR  
WAAB WADC WADW WBAF WCAO  
WCOO WDAE WDBJ WDBO WDOD  
WDRB WDSU WEAN WFBL WFBM  
WFBA WGST WHAS WHEC WHK  
WIBW WICC WJAS WKBN WKBW  
WLAC WMOX WMBD WMT WNAX  
WODX WOKO WTOR WPG WQAM  
WREB WSBT WTAR WTCO  
**R** — Lucky Strike, See Tuesday  
**B** — Phillips Lord, See Monday

**E-10:30 p.m., C-9:30, M-8:30, P-7:30**  
**C** — Edwin C. Hill, See Tuesday  
**B** — Red and Ramona  
KWK WBAL WCKY WGAR WHAM  
WJR WJZ WREN

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

**E-11:00 p.m., C-10:00, M-9:00, P-8:00**  
**C** — Columbia Symp. Orch., See Mon.  
**B** — Amos 'n' Andy, See Monday  
**R** — Art Jarrett-Don Bestor  
WCAE WCKY WFAF WFBR WFI  
WGY WHO WJAR WOC WRC WTAG  
WWJ

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**R** — Ben Bernie and Orchestra  
KPRC KSD KTBS KTHS KVOO  
WCAE WCKY WDAF WFAF WFBR  
WFI WHO WJR WKY WMAQ WOC  
WOW WTAG WWJ  
**C** — Isham Jones, See Tuesday

**E-12:00 m., C-11:00, M-10:00, P-9:00**  
**C** — Eddie Duchin, See Monday  
**R** — Donald Novis, See Monday

**E-12:15a.m., C-11:15, M-10:15, P-9:15**  
**B** — Howard Thurston, *Magician*  
KDYL KFI KGO KGW KHQ KOA  
KOMO

**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  
**B** — Don DeForest and Orchestra  
KFYR KOIL KSTP KWCR WBAL  
WGAR WHAM WIBA WJZ WLW  
WMAQ WREN

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

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C** — Buck Rogers, See Monday  
**R** — Kremling Art Quintet  
WCFB WDAF WFAF WFBR WOW  
WRC  
**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** — Jack Fulton, See Wednesday

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

**E-8:00 p.m., C-7:00, M-6:00, P-5:00**  
**R** — Cities Service Orchestra  
CKGW KOA KPRC KSD KSL KSTP  
KTBS KTHS KVOO KYW WBEN  
WCAE WCSH WDAF WFAF WFCB  
WEEI WFAA WFBR 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 WGAR WHAM WJR  
WJZ WLS WREN

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

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**C** — March of Time  
CKOK KFPY KHJ KLRA KLZ KMBC  
KMOX KOH KSCJ KTRH KVI  
WABC WADC WBCM WBAF WDAE  
WDBJ WDBO WDRB WEAN WFBM  
WFEA WGR WHEC WHK WHB  
WIBW WISN WJAS WLAC WLZB  
WMT WNAC WNAX WNOX WOKO  
WORC WOWO WPG WQAM WREB  
WSBT WSPA WSJS WSPD WTAA  
WTAR WTCO  
**B** — Adventures in Health, See Tuesday

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

**E-9:00 p.m., C-8:00, M-7:00, P-6:00**  
**R** — Cluquet Club  
KSD WBEN WCAE WCSH WDAF  
WFAF WEEI WFBR WGY WHO  
WJAR WLIT WMAQ WOC WOW  
WRC WSAI WTAG WTAM WTIC  
WWJ

**FRIDAY**

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

**FRIDAY—Continued  
and SATURDAY**

**B — First Nighter**  
KDKA KDYL KFI KFSD KGO KGW  
KHQ KOA KOIL KOMO KPRC  
KSTP KTRAR KTBS KWK WBAL  
WBZ WBZA WCKY WECB WGAR  
WEAM WJZ WKY WQAI WREN  
WTMJ

**E-8:30 p.m., C-8:30, M-7:30, P-6:30**  
**R — Pond's Program**  
KSD WBEN WCAE WCSH WDAF  
WEAF WENR WFBR WGY WHO  
WJAR WLIT WOC WOW WRC  
WSAI WTAG WTAM WWJ

**B — Armour Program, Eddie & Ralph**  
KDKA KFI KGO KGW KHQ KOA  
KOIL KOMO KPRC KSL KSTP  
KWK WAPI WBAL WBZ WBZA  
WECB WFAA WGAR WHAM WIOD  
WJAX WJR WJZ WKY WMAQ  
WMC WQAI WREN WYWA WSB  
WSM WSBM WTMJ WWNC

**E-10:00 p.m., C-9:00, M-8:00, P-7:00**  
**C — Music That Satisfies, See Monday**  
**B — Phillips Lord, See Monday**  
**R — Big Six with Al Jolson**

KDYL KFI KFSD KFYR KGHL  
KGIR KGO KGW KHQ KOA KOMO  
KPRC KSD KSTP KTRAR KTBS  
KTHS KV00 WBEN WCAE WCSH  
WDAF WDAY WEAF WECB WEEI  
WENR WFAA WFBW WFLA WGY  
WHO WIBA WIOD WIS WJAR WJAX  
WJDX WKY WLIT WMC WQAI  
WOC WOW WRC WRVA WSAI WSB  
WSM WSBM WTAG WTAM WTIC  
WTMJ WWJ WWNC

**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 WQAI  
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 KFI KFSD  
KFYR KGHL KGIR KGO KGW  
KHQ KOA KOMO KPRC KSD  
KSTP KTRAR KTBS WAPI WBEN  
WCAE WCSH WDAF WDAY WEAF  
WECB WEEI WENR WFAA WFBW  
WFLA WGY WHO WIBA WIOD WIS  
WJAR WJAX WJDX WKY WLIT  
WMC WQAI WOC WOW WRC  
WRVA WSAI WSB WSM WSBM  
WTAG WTAM WTIC WTMJ WWJ  
WWNC  
**C — Charles Carlile, See Monday**

**E-10:45 p.m., C-9:45, M-8:45, P-7:45**  
**R — Lanny Ross Tenor**  
KSD WEAF WFBR WGY WRC  
WTAG WWJ  
**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**  
**R — Anson Weeks and Orchestra**  
CFCE KSD WEAF WEEI WFBR  
WFLA WGY WIOD WIS WJAR.  
WLIT WOW WRC WTAG WTAM  
WWJ WWNC

**E-11:15 p.m., C-10:15, M-9:15, P-8:15**  
**R — Jones and Haro, See Monday**

**E-11:30 p.m., C-10:30, M-9:30, P-8:30**  
**C — Guy Lombardo, See Monday**

**E-12:00 p.m., C-11:00, M-10:00, P-9:00**  
**B — Cab Calloway, See Wednesday**

**E-12:15 p.m., C-11:15, M-10:15, P-9:15**  
**B — Howard Thurston, See Thursday**

**SATURDAY**

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

**E-6:00 p.m., C-5:00, M-4:00, P-3:00**  
**R — Waldorf-Astoria Orch., See Monday**  
**B — Little German Band**  
KDKA KEX KFSD KFYR KGA  
KJR KOA KPO KTRAR KTBS KWCR  
WBAL WFLA WGAR WIBA WIOD  
WJZ WKY WREN WSB WWNC

**C — The Funnyboners**  
CFRB CKOK KFH KLZ KSCJ KTRH  
KVOR WAAB WABC WACO WADC  
WBCM WBT WCAH WCAO WCAU  
WCCO WDAE WDBJ WDBO WDDO  
WDRG WDSU WFEA WGST WHAS  
WHCC WHK WHP WIBW WIGC  
WISN WJAS WKBH WKBW WKRC  
WLAC WLWB WLWB WMT WNAK  
WOKO WORC WQAM WREC WSBT  
WSFA WSJS WTAG WTAR WTOC  
WWVA

**E-6:30 p.m., C-5:30, M-4:30, P-3:30**  
**R — Harlem Fantasy**  
KEX KFSD KGA KJR KOA KPO  
KTBS WCAE WEAF WIBA WKY  
WMC WRC WSM WWNC

**E-6:45 p.m., C-5:45, M-4:45, P-3:45**  
**C — Jack Miller and Orchestra**  
CFRB CKOK KFH KLZ KMBC  
KMOX KSCJ KTRH KVOR WAAB  
WABC WACO WADC WBCM WBT  
WCAH WCAO WCCO WDAE WDBJ  
WDBO WDDO WDRG WDSU WEAN  
WFBW WFBM WFEA WGST WHAS  
WHCC WHP WISN WJAS WKBW  
WKRC WLAC WLWB WLBZ WMT  
WNAK WOKO WORC WQAM WREC  
WSBT WSFA WSJS WTAG WTAR  
WTOC WWVA

**B — Lee Sims-Holmay Bailey**  
WAPI WHAL WENR WFLA WHAM  
WIOD WISWJZ WMC WRC WSB  
WWNC  
**R — G. E. Circle, See Monday**

**E-7:00 p.m., C-6:00, M-5:00, P-4:00**  
**C — Frederic William Wile**  
KFBC KFYR KGB KHJ KMBC  
KMOX KOH KTRH KVI KVOR  
WABC WACO WADC WBCM WBIG  
WBRG WBT WCAH WCAO WCAU  
WDAE WDRG WFBM WFEA WGL  
WGN WGR WJAS WLAC WLWB  
WMT WNAK WNOX WOKO WQAM  
WSFA WSPD WTOC WWVA  
**R — G. E. Circle, See Monday**

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**R — George Olsen and Orchestra**  
WBEN WCKY WDAY WEAF WFBR  
WFI WGY WHO WJAR WOW WRC  
WTAG WTAM  
**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**  
**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

**C — Connie Boswell**  
CFRB CKOK KFH KMBC KMOX  
KOMA KSCJ KSL KTRH KVOR  
WABC WACO WADC WBCM WBCM  
WBIG WBRG WBT WCAO WCAU  
WDBJ WDBO WDDO WDRG WDSU  
WEAN WFBM WFBM WFEA WGL  
WGR WGST WHK WHP WICC WISN  
WJAS WKBH WLAC WLWB WLWB  
WMT WNAK WNAK WNOX WOKO  
WORC WQAM WREC WSFA WSJS  
WSPD WTAG WTAR WWVA

**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 WECB WEEI WFBW WFI  
WFLA WHO WIBA WIOD WIS  
WJAR WKY WMAQ WOC WRC  
WSAI WSBM WTAG WTAM WWJ  
WWNC

**E-8:15 p.m., C-7:15, M-6:15, P-5:15**  
**B — Anson Weeks and Orchestra**  
KDKA KEX KFSD KFYR KJR KOA  
KPO KPRC KTRAR KTBS KWCR  
KWK WBAL WCKY WFLA WGAR  
WHAM WIBA WIOD WIS WJZ WMC  
WQAI WRC WREN WSB WSBM  
WWNC  
**C — Magic Voice, See Tuesday**

**E-8:30 p.m., C-7:30, M-6:30, P-5:30**  
**R — Economic World Today**  
CFCE CKGW KDYL KFI KFSD  
KFYR KGO KGW KHQ KOA KOMO  
KPRC KSD KSTP KTBS KYW WCAE  
WCSH WDAF WDAY WEAF WECB  
WFBW WFI WFLA WGY WHO WIBA  
WIOD WIS WJAR WKY WOC WOW  
WRC WSAI WSB WSM WSBM WTAG  
WTAM WWJ WWNC

**B — Road to Romany**  
CKGW KWCR KWK WBAL WBZ  
WBZA WFLA WGAR WHAM WIOD  
WIS WJR WJZ WLW WREN WWNC  
**C — Isham Jones and Orchestra**  
CGRB CKOK KFBK KFH KJFF  
KFYR KFRC KGB KHJ KLRA KLZ  
KMBC KMOX KOG KHG KOL KSCJ  
KTRH KVI KVOR WABC WBCM  
WBIG WBRG WBT WCAH WCAO  
WCAU WCOO WDAE WDBJ WDBO  
WDDO WDSU WEAN WFBW WFBM  
WFEA WGL WGST WHCC WHK  
WHP WIBW WISN WJAS WKBW  
WLWB WNAK WNAK WNOX WOKO  
WORC WPG WQAM WREC WSFA  
WSPD WTAG WTAR WTOC WWVA

**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**  
CFCE CKGW KFI KFYR KGO KGW  
KHQ KOA KPRC KSD KSTP KTRAR  
KTBS WBEN WCAE WCKY WCSH  
WDAF WEAF WEEI WFBW WFI  
WFLA WGY WHO WIBA WIOD  
WIS WJAR WKY WMAQ WMC WQAI  
WOC WRC WSAI WSB WSBM  
WTAG WTAM WWJ WWNC

**SATURDAY—Continued  
and SUNDAY**

**B — Gus Van, Pickens Sisters**

KDKA KOIL KPRC KWCR KWK  
WAPI WBAL WBAP WBZ WBZA  
WGAR WHAM WJDX WJR WJZ  
WLS WMC WREN WSB WWM 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 KTSB KVOR  
WAAB WABC WADC WBCM WBT  
WCAH WCAU WCCO WDAE WDBJ  
WDBO WDRC WDSU WEAN WFBL  
WFEM WFEA WGST WHAS WHP  
WIBW WISN WJAS WKBH WKBW  
WLAC WLWB WLWB WMBD WMT  
WNAX WOKO WORC WQAM WREC  
WSBT WSFA WSJS WTAR WTOC

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

**B — S.R.O., Comedy Sketch**

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

**C — Carborundum Band**

CKOK KMBC KMOX WAAB WABC  
WCAO WCAU WCCO WGN WHAS  
WPK WJAS WKBW WKRC WSPD

**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**

KFBK KFH KFJF KFPY KPRC  
KGB KHJ KLRA KLZ KMBC KMOX  
KOH KOL KSCJ KTRH KTSB KVI  
KVOR WAAB WABC WBBM WBCM  
WBIG WBRB WBT WCAO WCCO  
WDAE WDBJ WDBO WDOD WDSU  
WEAN WFEM WFEA WGST WHAS  
WHBC WHP WIBW WJAS WKBH  
WKBW WLWB WNAX WNOX WOKO  
WORC WOPW WPG WQAM WREC  
WSFA WSPD WTOC

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

**B — Three Jesters**

CFRC CKGW KDKA KOIL KWCR  
WBAL WBZ WBZA WHAM WJZ  
WREN

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

**C — Vaughn DeLeath**

CFRB CKOK KFAB KFBK KFH  
KFJF KFPY KPRC KGB KHJ KLZ  
KMBC KOH KOL KSCJ KTRH KVI  
KVOR WABC WACO WBCM WBIG  
WBRB WCAO WCAU WCCO WDBJ  
WDBO WDOD WDSU WEAN WFBL  
WFEA WGR WGST WHP WJAS  
WKBH WNAC WNAX WNOX WOKO  
WORC WOPW WQAM WSFA WSPD  
WTAG WTAR WTOC WVVVA

**B — Twenty Fingers of Harmony**

CFRC CKGW KDKA WCKY WGAR  
WHAM WJZ WREN

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

**C — Guy Lombardo and Orchestra**

CKOK KFAB KFBK KFJF KFPY  
KFRK KGB KHJ KLRA KLZ KMBC  
KMOX KOH KOL KRLD KSCJ  
KTRH KTSB KVI KVOR WABC  
WBCM WBRB WBT WCAH WCAO  
WCAU WCCO WDAE WDVJ WDBO  
WDOD WDSU WEAN WFBL WFEM  
WGL WGST WHAS WHBC WHK  
WHP WIBW WISN WKBW WLWB  
WMBO WNAC WNAX WNOX WODX

WOKO WQAM WREC WSPD WTAR  
WTOC WVVVA

**R — Art Jarrett See Thursday**

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

**B — Lew White, Organist**

CFRC CKGW KDYL KEX KFSD  
KFYR KGA KGHL KJR KOIL KPO  
KPRC KTBS KWCR KWK WBAL  
WCKY WEBC WFLA WGAR WHAM  
WIBA WIOD WIS WJR WJZ WMC  
WOAI WREN WSB WSBM WVNC

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

**C — Harold Stern and Orchestra**

**R — Paul Whiteman and Orchestra**  
KSD WCAE WCKY WEA WEEI  
WFI WGY WJAR WMAQ WRC  
WTAM WWJ

**C — California Melodies**

KFBK KFPY KLZ KMBC KOH  
KTRH KVOR WABC WADC WBCM  
WBRB WBT WCAH WCAU WFBL  
WFBM WGL WHAS WISN WKBW  
WLAC WMBD WMT WNAX WNOX  
WOKO WPG WSPD WVVVA

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

**C — Ted Fiorito and Orchestra**

CKOK KFAB KFH KLZ KMBC  
KOMA KRLD KSCJ KSL KTRH  
KVOR WABC WBCM WBRB WBT  
WCAU WCCO WDAE WDBJ WDOD  
WDSU WEAN WFBL WGL WGST  
WHP WIBW WICC WISN WKBW  
WLAC WLWB WLWB WMBD WMT  
WNAC WNAX WOKO WPG WREC  
WSBT WSPD WTOC

**R — Roger Wolfe Kahn Orchestra**

KDYL KFSD KFYR KGA KGHL  
KJR KPO KPRC KSD KSTP KTBS  
KVOO WBNB WCAE WCKY WDAF  
WEAF WEBC WFBR WFLA WGY  
WHO WIBA WIOD WIS WJAR  
WMAQ WMC WOAI WOC WRC WSB  
WSMB WTAG WTAM WVNC

**B — Jack Denny, See Monday**

**E-12:30 a.m., C-11:30, M-10:30, P-9:40**

**R — Vincent Lopez and Orchestra**

KDYL KEX KFYR KGA KJR KPO  
KPRC KSD KSTP KTBS WCAE  
WCKY WEA WECB WFBR WHO  
WIBA WIOD WJAR WKY WMC  
WOAJ WOC WRC WSB WSMB WTAG  
WVNC

**SUNDAY**

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

**R — Major Bowes Family**

KEX KFYR KGA KJR KOA KPO  
KSL KSTP KTBS WAPI WCHS WDAF  
WEAF WFLA WGY WJOD WLIT  
WMAQ WMC WPTF WRC WSM  
WTAM WWJ WVNC

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

**C — Salt Lake Tabernacle Choir**

CFRB CKOK KFAB KFBK KFPY  
KGB KLZ KMBC KOH KSCJ KVOR  
WAAB WABC WADC WBIG WCAO  
WCCO WDBJ WDOD WFBL WFEA  
WGR WHAS WHBC WHK WISN  
WJAS WKBW WLWB WMBD WMT  
WNAX WNOX WOKO WORC WPG  
WQAM WREC WSBT WSJS WTAQ  
WTAR WVVVA

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

**R — Russin Symphonic Choir**

CKGW KDYL KEX KFSD KFYR

KGA KGHL KGIR KJR KOA KPO  
KPRC KTAR WBNB WCY WDAF  
WDAY WEA WFBW WGY WHO  
WIOD WIS WJAR WJAX WLIT WOC  
WPTF WSMB WTAG WTAM WWJ  
WVNC

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

**R — Legion of the Lost**

**C — Reis and Dunn**

**C — Emery Deutsch and Orchestra**

CFRB CKOK KFAB KFBK KFJF  
KFRK KHJ KTRH KMBC KOL  
KRLD KSCJ KTRH KVOR WAAB  
WABC WBBM WBCM WBRB WCAH  
WCAU WCCO WDAE WDBJ WDBO  
WDOD WDSU WFBL WGR WGST  
WHAS WHBC WIBW WISN WJAS  
WKBH WKBW WLWB WMBD WODX  
WOKO WORC WOPW WPG WQAM  
WREC WSFA WTAQ WTAR WVVVA

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

**C — Cathedral Hour**

CFRB CKOK KFH KLRA KLZ  
KMBC KSCJ KTRH KTSB KVOR  
WABC WACO WADC WBCM WCAH  
WCAO WCAU WCCO WDAE WDBJ  
WDBO WDOD WDRB WDSU WFBL  
WFEA WGR WGST WHAS WHBC  
WHK WHP WIBW WISN WKBH  
WLAC WLWB WMT WOKO WORC  
WQAM WREC WSBT WSJS WTAQ  
WTAR WTOC

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

**C — Columbia Church of the Air**

CFRB CKOK KFAB KFBK KFPY  
KLZ KMBC KOH KSCJ KTRH KVI  
KVOR WAAB WABC WADC WBCM  
WBIG WBRB WBT WCAH WCAO  
WCAU WCCO WDBJ WDOD WDRB  
WFBL WGR WHBC WHK WISN  
WJAS WLWB WLWB WMT WOKO  
WOPW WPG WQAM WSBT WSJS  
WTAQ WTAR WVVVA

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

**R — Clyde Doerr and Orchestra**

CFRC CKGW KFI KFSD KGO KGW  
KHQ KOA KOMO KPRC KSD KTAR  
KTBS KTHS KVOO WAPI WBNB  
WCAE WCKY WDAF WEA WEEI  
WFAA WFBW WFI WFLA WGY  
WIOD WIS WJAR WJAX WJDX  
WKY WLIT WMC WOW WRC WRVA  
WSB WSM WTAG WTAM WWJ  
WVNC

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

**C — Victor Arden and Orchestra**

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

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

**R — Moonshine and Honeyuckle**

KSD WCAE WCKY WCHS WDAF  
WEAF WEEI WEA WGY WHO  
WJAR WLIT WMAQ WOC WOW  
WRC WTAG WTAM WWJ

**B — Yeast Foamers**

KDKA KFI KFSD KFYR KGHL  
KGO KGW KHQ KOIL KOMO KSTP  
KTAR KTHS KVOO KWCR KWK  
KYW WAPI WBAL WBZ WBZA  
WDAY WEA WFLA WFLA WGAR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJR WJZ WLW WPTF WREN  
WRVA WSB WSM WSMB WTAM  
WVNC

**SUNDAY—Continued**

**E-2:45 p.m., C-1:45, M-12:45, P-11:45**  
**C — Hoosier Editor, Frederick Landis**  
COK KDB KFAB KFBK KFPY  
KFCR KGB KHJ KLZ KMBC KMOX  
KOLN KOL KOMA KSL KVI WABC  
WBBM WCAH WCAO WCAU WCCO  
WGR WHAS WHK WJAS WKRC  
WNAC WOWO WRR

**E-3:00 p.m., C-2:00, M-1:00, P-12:00**  
**R — Wayne King and Orchestra**  
KDYL KFI KFJR KGO KGW KHQ  
KOA KOMO KPRC KSD KSTP KTBS  
KTHS KV00 KYW WBBN WCAE  
WCSH WDAF WDAY WEAF WEBC  
WEEI WFAA WFRB WGY WHO  
WIBA WJAR WKY WLIT WOAI  
WOC WOV WRC WSAI WTAG  
WTAM WTMJ WWJ

**C — N. Y. Philharmonic Orchestra**  
CFRB COK KFH KLRA KLZ KMBC  
KRLD KSCJ KTRH KVOR WABC  
WACO WADC WBCM WCAH WCAO  
WCAU WCCO WDAE WDBJ WDBO  
WDOD WDRC WDSU WFAN WFBL  
WFBM WFEA WGST WHAS WHBC  
WHK WHP WIBW WIP WISN WKBH  
WKWB WKRC WLAC WLWB WLWB  
WMBD WMT WOKO WORC WQAM  
WREB WSBT WSFA WSJS WTAQ  
WTAR WTOC WWVA

**B — Our American Music**  
KOIL KWCR KWK WBAL WFLA  
WGAR WIOD WJAX WJZ WMAQ  
WREN WRVA WSB WSM WSMB  
WWNC

**E-3:30 p.m., C-2:30, M-1:30, P-12:30**  
**R — Dr. S. Parkes Cadman**  
KDYL KFSB KFJR KGHL KGO  
KGW KHQ KOA KOMO KPRC KSD  
KSTP KTAR KTHS KV00 WBBN  
WCAE WCSH WDAF WDAY WEAF  
WEBC WEEI WFRB WGY WHO  
WIBA WJAR WKY WLIT WOAI  
WOC WOV WRC WSAI WTAG  
WTAM WWJ

**B — Manhattan Merry-Go-Round**  
KDKA KOIL KWCR KWK WBAL  
WBNB WBSA WHAM WJZ WMAQ  
WREN

**E-4:00 p.m., C-3:00, M-2:00 P-1:00**  
**— Father Coughlin**  
KMOX KSTP KYW WCAO WCAU  
WDRC WEAN WFBL WFEA WGAR  
WGR WHB WICC WJAS WJR WLWB  
WLW WMT WNAC WNBH WOC  
WOL WOKO WOR WORC

**R — Iodent Program**  
KFI KFSB KFJR KGHL KGIR  
KGO KGW KHQ KOA KOMO KPRC  
KSD KSL KTAR KTBS KTHS KV00  
WAPI WBBN WCAE WCSH WDAF  
WDAY WEAF WEBC WEEI WFAA  
WFRB WFLA WGY WHO WIBA  
WIOD WIS WJAR WJAX WJDX  
WKY WMC WOAI WOV WPTF WRC  
WRVA WSAI WSB WSM WSMB  
WTAG WTAM WTMJ WWJ WWNC

**B — Temple of Song**  
KDKA KOIL KWCR WBAL WBZ  
WBZA WCKY WFLA WHAM WJZ  
WMAQ WREN

**E-4:15 p.m., C-3:15 M-2:15, P-1:15**  
**R — Wildroot-Vee-Lawnhurst**  
KDYL KFI KGO KGW KHQ KOA  
KOMO KSD WBBN WCAE WCSH  
WDAF WEAF WEEI WFRB WGY  
WJAR WLIT WMAQ WOV WRC  
WSAI WTAG WTAM WWJ

**E-4:30 p.m., C-3:30, M-2:30 P-1:30**  
**R — International Radio Forum**  
CFCF CKGW WBBN WCAE WCKY  
WCSH WDAF WEAF WEEI WFRB  
WFI WGY WJAR WMAQ WOV WRC  
WSAI WTAG

**B — National Youth Conference**  
KDKA KDYL KFSB KFJR KGHL  
KGO KGW KHQ KOA KOMO KPRC  
KSTP KTAR KTHS KV00  
KWCR KWK WAPI WBAL WBZ  
WBZA WCKY WDAY WEBC WENR  
WFLA WGAR WHAM WIBA WIOD  
WIS WJAX WJDX WJR WJZ WKY  
WLW WMC WOAI WPTF WREN  
WRVA WSB WSM WWNC

**E-4:45 p.m., C-3:45, M-2:45 P-1:45**  
**R — Letrio Charmante**  
CKGW WBBN WCAE WCSH WDAF  
WEAF WEEI WENR WFRB WFI  
WGY WHO WJAR WCV WOV WRC  
WSAI WTAG

**E-5:00 p.m., C-4:00, M-3:00, P-2:00**  
**C — Roses and Drums**  
COK KMCB KMOX KRLD WAAB  
WABC WADC WBBM WCAO WDSU  
WFBM WGR WGST WHK WJAS  
WKRC

**R — Pop. Concert, Walter Logan**  
CKGW KFSB KGO KGW KHQ KOA  
KSTP KTAR KTBS WAPI WBBN  
WCAE WCSH WDAF WEAF WEBC  
WEEI WENR WFRB WFI WFLA  
WGY WHO WIOD WJAR WKY WMC  
WOC WOV WRC WRVA WSAI WSB  
WSM WTAG WTAM WWJ WWNC

**R — National Vespers**  
KFSB KFJR KGHL KGIR KGO  
KGW KHQ KOA KOL KPRC KTAR  
KTBS KTHS KV00 KWCR KWK  
KYW WAPI WBAL WBAF WBBN  
WBZA WDAY WEBC WFLA WGAR  
WHAM WIBA WIOD WIS WJAX  
WJDX WJZ WMC WOAI WPTF  
WREN WRVA WSB WSMB WWNC

**E-5:30 p.m., C-4:30, M-3:30, P-2:30**  
**C — Blue Coal Revue**  
WAAB WABC WCAO WCAU WDRC  
WEAN WFBL WGR WHEC WHP  
WOKO

**R — Big Ben's Dream Dramas**  
KDYL KFI KGO KOA KSD KSTP  
WBBN WCAE WCSH WDAF WEAF  
WEEI WENR WFRB WFI WGY  
WJAR WOV WRC WSAI WTAG  
WTAM WTMJ WWJ

**E-5:45 p.m., C-4:45, M-3:45, P-2:45**  
**R — "Bring 'Em Back Alive"**  
KDYL KFI KFJR KGO KGW KHQ  
KOA KOMO KSD KSTP WBBN  
WCAE WCKY WCSH WDAF WDAY  
WEAF WEBC WEEI WFRB WFI  
WGY WHO WIBA WJAR WMAQ  
WOC WOV WRC WSAI WTAG  
WTAM WWJ

**E-6:00 p.m., C-5:00, M-4:00, P-3:00**  
**B — Paul Whiteman's Concert**  
CKGW KOIL KWCR KWK WBAL  
WBZ WBZA WCKY WENR WGR  
WHAM WJR WJZ WRC WREN

**C — Poet's Gold-David Ross**  
CFRB COK KFH KLZ KRLD  
KSCJ KVOR WABC WACO WADC  
WBCM WCAO WCAU WCCO WDAE  
WDBJ WDBO WDOD WDRC WDSU  
WFBL WFBM WFEA WGR WGST  
WHAS WHBC WHP WIBW WISN

WJAS WKBH WLAC WLWB WMT  
WNAX WOKO WORC WQAM WREC  
WSBT WSFA WSJS WTAQ WTAR  
WTOC WWVA

**R — Catholic Hour**  
KEX KFSB KFJR KGA KGHL  
KGIR KJR KOA KPO KPRC KSTP  
KVOO WAPI WBAF WBBN WCAE  
WCSH WDAF WEAF WEBC WEEI  
WENR WFRB WFLA WGY WHO  
WIBA WIOD WJAR WJAX WJDX  
WKY WLIT WMC WOAI WOC  
WOW WRC WRVA WSAI WSM  
WSMB WTAG WTAM WWJ WWNC

**E-6:15 p.m., C-5:15, M-4:15, P-3:15**  
**C — Little Jack Little**  
CFRB COK KFH KLZ KRLD KSCJ  
KSL KVOR WACO WADC WCAU  
WCCO WDAE WDBJ WDBO WDOD  
WDRC WDSU WFBL WFBM WFEA  
WGR WGST WHAS WHEC WHP  
WIBW WISN WJAS WKBH WKRC  
WLAC WLWB WLWB WMT WNAX  
WOKO WORC WPG WQAM WREC  
WSBT WSFA WSJS WTAQ WTAR  
WTOC WWVA

**C — Irene Beasley, Round Towners**  
CFRB COK KFAB KFBK KFH  
KFJF KFRC KHJ KLRA KMBC  
KMOX KOL KRLD KSCJ KVOR  
WABC WBCM WBIG WBRB WBT  
WCAH WACO WCAU WCCO WDAE  
WDBJ WDBO WDOD WDRC WDSU  
WEAN WFBL WFBM WFEA WGR  
WGST WHAS WHEC WHK WHP  
WIBW WISN WJAS WKBH WKBN  
WLWB WMBD WNAC WNOX WODX  
WOKO WORC WOV WQAM WREC  
WSFA WSPD WTAQ WTAR WTOC  
WWVA

**R — Our American Schools**  
KDYL KFI KFSB KGA KJR KPO  
KPRC KSD KSTP KTBS KYA WBBN  
WCAE WCSH WDAF WEAF WEBC  
WEEI WENR WFRB WFLA WHO  
WIBA WIOD WIS WJAR WJAX  
WKY WQAI WOC WOV WRVA WSAI  
WSB WSM WSMB WTAG WTAM  
WWJ WWNC

**C — World's Business, Dr. Klein**  
KFAB KFH KFPY KGB KLZ KMOX  
KOH KRLD KSCJ KTRH KVI  
KVOR WABC WACO WADC WBBM  
WBCM WBIG WBRB WBT WCAH  
WCAO WCCO WDBJ WDOD WDRC  
WEAN WFAN WFBL WFBM WFEA  
WGL WGR WHAS WHEC WIP  
WISN WJAS WLAC WLWB WLWB  
WMT WNAC WNAX WNOX WOKO  
WORC WPG WQAM WREC WSBT  
WTAQ WTAR WWVA

**R — Marimba Band**  
KDYL KFI KFSB KFJR KGO KGW  
KHQ KOA KPRC KSD KTBS WCAE  
WCKY WDAF WDAY WEAF WEBC  
WEEI WFRB WFLA WGY WHO  
WIBA WIOD WIS WJAR WKY WLIT  
WMAQ WOAI WOC WSMB WTAG  
WWJ WWNC

**E-7:15 p.m., C-6:15, M-5:15, P-4:15**  
**C — Barbara Mauro, Contralto**  
COK KFH KLZ KMBC KMOX  
KOMA KRLD KSCJ KSL KVOR  
WABC WACO WADC WBCM WBIG  
WBRB WBT WCAO WCAU WCCO  
WDAE WDBJ WDBO WDOD WDRC  
WDSU WFEA WGR WHEC WHK  
WHP WIBW WISN WJAS WKBH  
WLWB WLWB WMT WNAX WNOX  
WODX WOKO WORC WQAM WREC  
WSBT WSJS WTAR WTOC WWVA

**SUNDAY—Continued**

**B — Borrah Minnevitth—Harmonica**  
 KDYL KFI KFSD KFYR KGO KGW  
 KHQ KOA KPRC KSTP KTBS  
 KWCR WBAL WBZ WBLA WCKY  
 WDAY WEBC WFAA WFLA WGAR  
 WBA WIOD WIS WJR WJZ WLS  
 WOI WREN WRVA WSB WSMB  
 WWNC

**R — Ray Knight** See Monday  
**C — New World Symphony**

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

**B — Great Moments in History**  
 KDKA KDYL KFI KFSD KFYR KGO  
 KGW KHQ KOA KOMO KPRC  
 KSTP KTAR KVOO KWK WBAL  
 WBZ WBLA WDAY WEBC WFAA  
 WFLA WGAR WHAM WIBA WIOD  
 WJAX WJDX WJR WJZ WKY WLS  
 WLW WMC WOI WREN WRVA  
 WSB WSM WSMB WTMJ WWNC  
**R — Orchestral Gems**  
 KSD WBNEN 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**  
**R — Chase and Sanborn Hour**  
 CFCF CKGW KFI KFSD KFYR  
 KGO KGW KHQ KOA KOMO KPRC  
 KSD KSL KSTP KTAR KTBS KVOO  
 WDAI WBNEN WCAE WCKY WCSH  
 WDAF WDAY WEAF WEBC WFAA  
 WFBR WFLA WGY WHO WIOD  
 WIS WJAR WJAX WJDX WKY  
 WLIT WLS WMC WOI WOC WPTF  
 WRC WRVA WSAI WSB WSM  
 WSMB WTAG WTAM WTIC WTMJ  
 WWJ WWNC

**C — Ernest Hutcheson—Pianist**  
 CKOK KLZ KMBC KMOX KOMA  
 KRLD KSCJ KSL KTSB KFOR  
 WAAB WABC WADC WADW WBBM WBCM  
 WBRC WCAO WCCO WDAE WDBJ  
 WDBO WDOD WDRC WDSU WFBL  
 WFBM WFEA WGR WHEC WHP  
 WHP WIBW WISN WJAS WKBB WLAC  
 WLWB WLWZ WMT WNOX WODX  
 WOKO WORC WQAM WREC WSJS  
 WTAR WWVA

**B — Russian Gaieties**  
 KDKA KOIL KWCR KWK WBAL  
 WGAR WJR WJZ WLS WREN

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

**C — To The Ladies—Morton Downey**  
 CKOK KLZ KMBC KOMA KRLD  
 KSCJ KSL KTSB KFOR WAAB  
 WABC WADC WBCM WBRB WBT  
 WCAO WCAU WCCO WDAE WDBJ  
 WDBO WDOD WDRC WDSU WFBL  
 WFBM WFEA WGR WHEC WHK  
 WHP WIBW WISN WJAS WKBB  
 WLAC WLWB WLWZ WMT WNOX  
 WNOX WODX WOKO WORC WQAM  
 WREC WSJS

**B — Red Adams—Sketch**  
 KDKA KOIL KWCR KWK WBAL  
 WGAR WHAM WJR WJZ WLS 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 WFAD WFBR WFI  
 WFLA WGY WHO WIOD WIS WJAR  
 WJDX WKY WMC WOC WOW  
 WPTF WRC WRVA WSAI WSB  
 WSM WSMB WTAG WWNC

**B — Enna Jettick Melodies**  
 CFCF CKGW KDKA KFI KFSD  
 KFYR KGHM 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 KFOR  
 WABC WADC WBCM WCAH WCAO  
 WCCO WDAE WDBJ WDOD WDRC  
 WDRD WDSU WFAN WFBL WFBM  
 WFEA WGR WGST WHAS WHEC  
 WHK WHP WIBW WIP WISN WJAS  
 WKBH WKRC WLAC WLWB WLWZ  
 WMT WNOX 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 KFYR KGO KGW KHQ  
 KOA KOMO KPRC KSD KSL KSTP  
 KTAR KTBS WAPI WBNEN WCAE  
 WCSH WDAY WEAF WEBC WENR  
 WFAA WFBR WFI WFLA WGY  
 WHO WIBA WIOD WJAR WJDX  
 WKY WMC WOI WOC WOW  
 WRC WSAI WSB WSM WSMB  
 WTAG WTAM WTMJ WWJ

**B — Smith Brothers**  
 KDKA KOIL KWCR KWK KYW  
 WBAL WBZ WBZA WHAM WJR  
 WJZ WREN

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

**C — Pennzoil Parade**  
 CKOK KFJF KLRA KMBC KMOX  
 KTSB WABC WADC WBRB WBT  
 WCAO WCAU WCCO WDRD WEAN  
 WFBL WGN WGR WGST WHEC  
 WHK WJAS WKRC WLAC WLWB  
 WNOX WOKO WSPD  
**B — Harriet Lee and Leaders**  
 CKGW KDKA KFYR KOIL KSTP  
 KWCR KWK KYW WBAL WGAR  
 WHAM WJR WJZ WLW WREN

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

**B — Sheaffer Lifetime Revue**  
 CFCF CKGW KDKA KDYL KFI  
 KFYR KGHM KGIR KGO KGW  
 KHQ KOA KOIL KOMO KPRC  
 KSTP KTBS KTBS KWCR KWK  
 WBAL WBZ WBZA WDAY WEBC  
 WENR WGAR WHAM WIBA WJDX  
 WJR WJZ WKY WMC WOI WREN  
 WSB WSM WSMB WTMJ  
**R — Ohman and Arden, Piano Duo**  
 KSD WBNEN WCAE WCSH WDAF  
 WEAF WFBR WFI WGY WHO  
 WJAR WMAQ WOC WOW WRC  
 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  
 WDRD WEAN WFBL WFBM WGN  
 WHAS WHK WJAS WKBB WKRC  
 WNOX WOKO WOV WPG WSPD

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

**R — L'Heure Exquise**  
 CKGW KFYR KPRC KSD KSTP  
 KTAR KTBS WBNEN WCAE WCKY  
 WDAF WEAF WEBC WEEI WFBR  
 WFI WFLA WGY WHO WIBA WIOD  
 WJAR WKY WMC WOC WOW WRC  
 WRVA WSAI WSM WSMB WTAR  
 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 — Welfare and Relief Program**  
 CFRB CKAC CKOK KFH KLZ  
 KMBC KOMA KSCJ KTSB KFOR  
 WAAB WADC WADW WBBM WBCM  
 WBRB WBT WCAO WCAU WCCO  
 WDAE WDBJ WDOD WDRC WDRD  
 WDSU WFBL WFBM WFEA WGR  
 WHEC WHP WIBW WISN WJAS  
 WKBH WLWB WLWZ WMBD WMT  
 WNOX WNOX WOKO WORC WPG  
 WQAM WREC WSFA WSJS WTAR  
 WTOC

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

**R — Sunday at Seth Parker's**  
 CFCF KECA KFSD KFYR KGHM  
 KGIR KGO KGW KHQ KOA KOMO  
 KPRC KSD KSL KSTP KTAR KTBS  
 KYW WAPI WBNEN WCAE WCSH  
 WDAF WDAY WEAF WEBC WEEI  
 WFPA WFBR WFI WFLA WGY  
 WHO WIBA WIOD WIS WJAR WJAX  
 WJDX WKY WMC WOI 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 — Sam Herman, Xylophonist**  
 KOIL KWCR KWK WBAL WGAR  
 WHAM WJR WJZ WMAQ WREN

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

**R — Donald Novis—Tenor**  
 KDYL KFYR KGHM KGO KGW  
 KHQ KSTP KTBS WCAE WCKY  
 WDAF WEAF WEBC WENR WFBR  
 WFI WFLA WGY WHO WIBA WIS  
 WJAX WMC WOC WRC WSB WSMB  
 WTAG WTAM WWNC  
**C — The Gauchos—Tito Guizar**  
 WAAB WABC WBRB WBT WDAE  
 WDBJ WDBO WDOD WDRD WDSU  
 WLAC WLWB WNOX WPG WQAM  
 WREC WSJS WTAR WTOC

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

**R — Melodic Serenade**  
 KFSD KFYR KGO KHQ KSTP  
 KTAR KTBS WCAE WCKY WENR  
 WFBR WFLA WGY WIBA WIOD  
 WIS WJAR WMC WRC WSAI  
 WSB WSM WTAM WJZ WWNC

**C — Eddie Duchin's Orchestra**  
 CFRB CKOK KLRA KTRH WABC  
 WADC WBCM WCAO WCAU WCCO  
 WDAE WDBJ WDBO WDOD WDRD  
 WDSU WFBL WGR WGST WHK  
 WHP WISN WLAC WLWZ WOKO  
 WPG WQAM WREC WSJS WTAR  
 WTOC

**B — Frankie Masters and Orchestra**  
 KOIL KWCR KWK WBAL WCKY  
 WENR WHAM WJR WJZ WREN

**C — Pennzoil Parade**  
 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**  
 KGHM KGO KGW KOA KOIL KOMO  
 KSTP KTBS KWCR WDAY WENR  
 WFLA WGAR WHAM WIOD WJR  
 WJZ WKY WLW WMC WREN  
 WSB WWNC  
**R — Joe Furst and Orchestra**  
 WCAE WCKY WDAF WEAF WFBR  
 WHO WLIT WOC WTAM

# CLASSIFIED INDEX TO CHAIN PROGRAMS

*Time in Eastern Standard*

## BANDS

Carborundum Band, 9:30 p.m., Saturday, C.  
Little German Band, 6:00 p.m., Saturday, B.  
Marimba Band, 7:00 p.m., Sunday, R.

## CONCERTS

Howard Barlow Symphony, 11:00 p.m., daily, ex. Sat. and Sun., C.  
Cities Service, 8:00 p.m., Friday, R.  
The Gauchos, 11:15 p.m., Sunday, C.  
Kremlin Art Quintet, 7:15 p.m., Friday, R.  
L'Heure Exquise, 10:15 p.m., Sunday, R.  
LeTrio 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., Mon. and Tues., B.  
New York Philharmonic, 3:00 p.m., Sunday, C.  
Orchestral Gems, 7:30 p.m., Sunday, R.  
Our American Music, 3:00 p.m., Sunday, B.  
Popular Classics, 7:45 p.m., Monday, C.  
Erno Rapee, 9:00 p.m., Saturday, R.  
Road to Romania, 8:30 p.m., Saturday, B.  
Russian Gaieties, 8:00 p.m., Sunday, B.  
Waldorf-Astoria, 6:00 p.m., daily, ex. Sunday, R.

## DANCE BANDS

Ben Bernie, 9:00 p.m., and 12:30 a.m., Tues.; 11:30 p.m., Thurs., R.  
Den Bestor, 11:00 p.m., Thurs. and Sat., R.  
Cab Calloway, 12 mid., Wed. and Fri., B.  
Don DeForest, 6:00 p.m., Friday, B.  
Jack Denny, 12 mid., Mon., Sat., B.; 11:15 p.m., Tues., 8:45 p.m., Wed., R.; 8:45 p.m., Thurs., C.  
Lew Diamond, 12:30 a.m., Monday, B.  
Clyde Doerr, 2:00 p.m., Sunday, R.  
Eddie Duchin, 11:30 p.m., Sun.; 12 mid. Mon. and Thurs., C.  
Ted Fiorito, 12 mid., Saturday, C.  
Joe Furst, 12 mid., Sunday, R.  
Isham Jones, 11:30 p.m., Tues., Wed. and Thurs., C.  
Roger Wolfe Kahn, 11:00 p.m., Mon.; 12 mid., Sat., R.  
Wayne King, 3:00 p.m., Sun.; 8:30 p.m., Tues., R.  
Guy Lombardo, 11:30 p.m., Mon. and Fri.; 9:00 p.m., Wed., C.  
Vincent Lopez, 12:30 a.m., Saturday, R.  
Lucky Strike, 10:00 p.m., Tues., Thurs. and Sat., R.  
Abe Lyman, 8:00 p.m., Tues., Thurs. and Sat., C.  
Clyde McCoy, 11:30 p.m., Monday, R.  
Jack Miller, 6:30 p.m., Tues.; 6:45 p.m., Sat., C.  
George Olsen, 12 mid., Tues.; 7:15 p.m., Sat., R.  
Don Redman, 12 mid., Tues. and Wed., C.  
William Stoess, 12 mid., Sunday, B.  
Rudy Vallee, 8:00 p.m., Thursday, R.  
Anson Weeks, 11:00 p.m., Fri., R.; 8:15 p.m., Sat., B.  
Ted Weems, 10:00 p.m., Sun.; 8:15 p.m., Thurs., C.  
Paul Whiteman, 6:00 p.m., Sun., B.; 9:30 p.m., Mon., 11:30 p.m., Sat., R.

## DIALOG

Red Adams, 8:30 p.m., Sunday, B.  
Fred Allen, 9:00 p.m., Sunday, C.  
Amos 'n' Andy, 7:00 and 11:00 p.m., daily, ex. Sat., and Sun., B.  
Betty Boop, 7:30 p.m., Tuesday, 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.  
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.  
S. R. O. Comedy, 9:30 p.m., Saturday, B.  
Stoopnagle & Budd, 10:45 p.m., Mon., Wed. and Fri., C.  
Tastyest Jesters, 7:15 p.m., Monday, B.

Howard Thurston, 8:45 p.m. and 12:15 a.m., Thurs. and Fri., B.  
Wheatensville, 7:15 p.m., daily, ex. Fri. and Sat., R.  
Ward Wilson, 7:15 p.m., Wed., Thurs. and Fri., B.

## DRAMA

Big Ben, 5:30 p.m., Sunday, R.  
Death Valley Days, 9:00 p.m., Thursday, B.  
Eno Crime Club, 9:30 p.m., Wednesday, 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.  
Goldbergs, 7:45 p.m., daily, ex. Sunday, R.  
Sherlock Holmes, 9:00 p.m., and 12:15 a.m., Wednesday, B.  
Omar Khayyam, 9:30 p.m., Thursday, C.  
Phillips Lord, 10:00 p.m., daily, ex. Sat. and Sun., B.  
Magic Voice, 8:15 p.m., Tues. and Sat., C.  
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.  
Rin Tin Tin, 8:30 p.m., Thursday, B.  
Buok Rogers, 7:15 p.m., daily, ex. Sat. and Sun., C.  
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 Gibson, 8:00 p.m., Saturday, R.  
Harding Sisters, 6:30 p.m., Mon. and Wed., R.; 10:45 p.m., Sat., B.  
Ernest Hutcheson, 8:00 p.m., Sunday, C.  
Keenan and Phillips, 6:45 p.m., Tuesday, C.  
Ohman and Arden, 9:45 p.m., Sun., R.; 2:15 p.m., Sun. C.  
Lee Sims, 6:45 p.m., Saturday, B.  
Lew White, 11:15 p.m., Saturday, 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, 10:00 p.m., Monday, R.  
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 Jettiek Melodies, 9:00 p.m., Sunday, B.  
Jay C. Flippen, 10:00 p.m., Tuesday, C.  
G. E. Circle, 6:45 and 7:00 p.m., daily ex. Sun. and Tues., R.  
Sam Herman, 11:00 p.m., Sunday, B.  
Andre Kostelanetz, 10:00 p.m., Thursday, C.  
Manhattan Merry-Go-Round, 3:30 p.m., Sunday, B.  
Maxwell House Sho Boat, 9:00 p.m., Thursday, R.  
Nestle's Program, 8:00 p.m., Friday, B.  
Pennzoil Parade, 9:30 and 11:30 p.m., Sunday, C.  
Pond's Program, 9:30 p.m., Friday, R.  
Sheaffer Revue, 9:45 p.m., Sunday, B.  
Sinclair Wiener Minstrels, 9:00 p.m., Monday, B.  
Smith Brothers, 9:15 p.m., Sunday, B.  
To The Ladies, 9:30 p.m., Friday, C.  
Wildroot Institute, 4:15 p.m., Sunday, R.  
Ed Wynn, 9:30 p.m., Tuesday, R.  
Yeast Foamers, 2:30 p.m., Sunday, B.

## QUARTETS

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.

## RELIGIOUS

Dr. S. Parkes Cadman, 3:30 p.m., Sunday, R.  
Cathedral Hour, 1:00 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.  
 Mid-Week Hymn Sing, 7:00 p.m., Tuesday, R.  
 National Vespers, 5:00 p.m., Sunday, B.  
 National Youth Conference, 4:30 p.m., Sunday, B.  
 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.

### 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.  
 Louise Bernhardt, 7:30 p.m., Thursday, B.  
 Connie Bewell, 6:30 p.m., Wed.; 7:45 p.m., Sat., C.  
 Beeswell Sisters, 10:00 p.m., Mon., 9:00 p.m., Thurs., C.  
 Eddie Cantor, 8:00 p.m., Sunday, R.  
 Charles Carlile, 10:30 p.m., Mon., Wed. and Fri., C.  
 Vaughn DeLeath, 6:30 p.m., Mon.; 6:00 p.m., Wed.; 5:45 p.m., Thurs.; 10:45 p.m., Sat., C.  
 Do Re Mi Girls, 9:15 p.m., Saturday, 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., Sunday, R.  
 Jack Fulton, 7:30 p.m., Wed. and Fri.; 7:15 p.m., Sat., B.  
 Tito Guizar, 11:15 p.m., Sunday, C.  
 Harlem Fantasy, 6:30 p.m., Saturday, R.  
 Art Jarrett, 11:00 p.m., Thurs. and Sat., R.  
 Al Jolson, 10:00 p.m., Friday, R.  
 Jones and Hare, 7:30 and 11:15 p.m., Mon., Wed., Fri., R.  
 Alice Joy, 10:30 p.m., Monday, R.  
 Ralph Kirbyer, 6:30 p.m., Thursday, R.  
 Harriet Lee, 9:30 p.m., Sunday, B.  
 Little Jack Little, 6:15 p.m., Sunday, C.  
 Barbara Maurel, 7:15 p.m., Sunday, C.  
 Tommy McLaughlin, 9:15 p.m., Tuesday, C.  
 Frank Munn, 9:15 p.m., Sunday; 9:30 p.m., Monday, R.  
 Musical Memories, 9:00 p.m., Tuesday, B.  
 Donald Novis, 11:15 p.m., Sun.; 12 mid., Mon., Thurs., R.  
 Old Singing Master, 10:15 p.m., Sunday, B.

Pickens Sisters, 11:00 p.m., Mon., Tues. and Wed.; 9:00 p.m., Sat., B.  
 Georgie Price, 7:45 p.m., Tues. and Thurs., C.  
 Radio Rubes, 10:30 p.m., Mon., Tues. and Wed., B.  
 Virginia Rea, 9:30 p.m., Monday, R.  
 Red and Ramona, 8:30 p.m., Mon.; 10:30 p.m., Thurs., B.  
 Regimentalists, 8:00 p.m., Thursday, B.  
 Lanny Ross, 9:00 p.m., Thurs.; 10:45 p.m., Fri., B.  
 Russian Symphonic Choir, 12:30 p.m., Sunday, R.  
 Sanderson-Crumit, 8:00 p.m., Tuesday, R.  
 Singin' Sam, 8:15 p.m., Mon., Wed. and Fri., C.  
 Jack Smith, 8:00 p.m., Mon. and Wed., C.  
 Kate Smith, 8:30 p.m., Mon., Tues. and Wed., C.  
 Street Singer, 9:00 p.m., Tues.; 10:00 p.m., Fri., C.  
 Temple of Song, 4:00 p.m., Sunday, B.  
 Three Jesters, 10:30 p.m., Saturday, B.  
 Three X Sisters, 7:30 p.m., Mon., Wed. and Fri., C.  
 Gus Van, 9:00 p.m., Saturday, B.

### TALKS

Adventures in Health, 8:30 p.m., Tues. and Fri., B.  
 American Schools, 6:30 p.m., Sunday, R.  
 Frank Buck, 5:45 p.m., Sunday, R.  
 Economic World Today, 8:30 p.m., Saturday, R.  
 Floyd Gibbons, 10:30 p.m., Friday, R.  
 William Hard, 6:45 p.m., Tuesday, R.  
 Edwin C. Hill, 10:30 p.m., Tues. and Thurs.; 8:45 p.m., Wed., C.  
 International Radio, 4:30 p.m., Sunday, R.  
 H. V. Kaltenborn, 6:00 p.m., Tues. and Thurs., C.  
 Dr. Julius Klein, 7:00 p.m., Sunday, C.  
 Frederic 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.	I	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.
	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

## NOTICE OF COPYRIGHT

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FOR KEY TO SYMBOLS SEE PAGE 45

### 540 kilocycles 555.6 meters

**CKOK** ae 500 CG Windsor, Ont.

39		
Essex Broadcasters, Ltd.		

### 550 kilocycles 545.1 meters

**KFDY** ae 500 (1)1 Brookings, S. D.  
**KFUO** ae 500 2(1) St. Louis, Mo.  
**KFYR** ah 1000 1N(2.5) Bismarck, No. Dakota  
**KCOAC** ak 1000 ..... Corvallis, Ore.  
**KSD** ak 500 2R St. Louis, Mo.  
**WDEV** ae 500 D Waterbury, Vt.  
**WGR** ae 1000 C Buffalo, N. Y.  
**WKRC** ak 1000 C Cincinnati, Ohio

55		
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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.  
**WFI** ae 500 1R Philadelphia, Pa.  
**WIBO** ae 1000 (1.5)a Chicago, Ill.  
**WLIT** ak 500 1R Philadelphia, Pa.  
**WNOX** ak 1000 C(2) Knoxville, Tenn.  
**WPCC** ak 500 Sa Chicago, Ill.  
**WQAM** ae 1000 C Miami, Fla.

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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** aeh 500 ..... Hollywood, Calif.  
**KVI** ae 500 C Tacoma, Wash.  
**TGW** z 50 ..... Guatemala  
**WEO** ae 750 1 Columbus, Ohio  
**WKBN** ak 500 1C Youngstown, Ohio  
**WMCB** ak 500 3 New York, N. Y.  
**WNAX** ae 1000 C Yankton, S. D.  
**WNYC** ak 500 3 New York, N. Y.  
**WSYR** ak 250 R2a Syracuse, N. Y.  
**WWNC** ae 1000 N Asheville, N. C.

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

### 580 kilocycles 516.9 meters

**CFCY** ae 500 E Charlottetown, P. E. I.  
**CHMA** ak 250 4S Edmonton, Alta.  
**CKCL** agj 500 ..... Toronto, Ont.  
**CKUA** ak 500 4F Edmonton, Alta.  
**CMCJ** z 250 588 Havana, Cuba  
**CMDD** z 150 588 Havana, Cuba  
**KMJ** ak 500 CT Fresno, Calif.  
**KSAC** ak 500 2(1) Manhattan, Kans.  
**WDBO** ae 250 CU Orlando, Fla.  
**WIBW** ae 1000 C2 Topeka, Kans.  
**WOBU** ak 250 1(.5) Charleston, W. Va.  
**WSAZ** ak 250 1(.5) Huntington, W. Va.  
**WTAG** ae 250 R(.5) Worcester, Mass.

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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  
 WOBU, Inc., Ruffner Hotel  
 WSAZ, Inc.  
 Worcester Telegram Pub. Co., Inc.

### 590 kilocycles 508.2 meters

**CJGC** ae 5000 595GZ London, Ont.  
**CHQ** ak 1000 N(2) Spokane, Wash.  
**WCAJ** ae 500 I Lincoln, Neb.  
**WEEI** ak 1000 R Boston, Mass.  
**WKZO** ae 1000 D Kalamazoo, Mich.  
**WOW** aeh 1000 1R Omaha, Neb.

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



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600 kilocycles 499.7 meters

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

59.7

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

KCY.S.  
680  
MTRS.  
440.9  
DIAL

610 kilocycles 491.5 meters

KFRK	ae	1000	C	San Francisco, Calif.
WDAF	ae	1000	R	Kansas City, Mo.
WIP	ak	500	C	Philadelphia, Pa.
WJAY	ae	500	D	Cleveland, Ohio
XETR	z	2500	.....	Mexico City, Mexico

61

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

620 kilocycles 483.6 meters

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

61.7

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

630 kilocycles 475.9 meters

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

62.9

Victoria Broadcasting Assn.  
Winnipeg Grain Exchange  
Wentworth Radio Bldg. Co., Ltd.  
Wentworth Radio Bldg. 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.
KFI	ah	50000	NI	Los Angeles, Calif.
WAIU	ae	500	I	Columbus, Ohio
WOI	ae	5000	D	Ames, Iowa

63.5

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.

64.2

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

660 kilocycles 454.3 meters

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

65.3

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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66.3

WMAQ, Inc. (NBC Lessees)

680 kilocycles 440.9 meters

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

67.3

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

2000 68.5 (67.5) Bogota, Colombia

Biblioteca Nacional de Bogota  
Seccion de Radio  
Estacion Radio Difusora HUN

CUT OUT ON DOTTED LINES

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690 kilocycles 434.5 meters

CFAC	ak	500	1G	Calgary, Alta.
CFRB	ak	10000	CM	Toronto, Ont.
CJ CJ	ae	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.

685		
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	50000	B	Cincinnati, Ohio
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700		
The Crosley Radio Corporation		

710 kilocycles 422.3 meters

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

705		
R. S. MacMillan		
Bamberger's Broadcasting Service, Inc.		
Cervercira Modelo S. A.		

720 kilocycles 416.4 meters

WGN	ak	25000	C	Chicago, Ill.
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72		
WGN, Inc., Drake Hotel		

730 kilocycles 410.7 meters

CHLS	ak	100	1b	Vancouver, B. C.
CHYC	z	5000	Sa	Montreal, Que.
MKAC	ak	5000	CaM	Montreal, Que.
CKCD	z	100	1b	Vancouver, B. C.
KFCF	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 (13)	Villa Acuna, Mexico

725		
W. G. Hassell (Province Bldg.)		
Northern Electric Co., Ltd.		
La Presse Publishing Co., Ltd.		
Vancouver Daily Province		
United Church of Canada		
Sprott-Shaw Radio Co.		
Western Broadcasting Co., Ltd.		
National Broadcasting Co. of Cuba		
Villa Acuna Broadcasting Co., Inc.		

740 kilocycles 405.2 meters

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

735		
Edmonton Journal, Ltd.		
M. M. Johnson Co. (R/C Lincoln)		
Atlanta Journal, Biltmore Hotel		
Granite State Broadcasting Co.		

750 kilocycles 399.8 meters

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

75		
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.
WEW	ae	1000	D	St. Louis, Mo.
WJZ	ck	30000	BA	New York City

76		
American Radio Tel. Co.		
(See 1060 kcys. also)		
St. Louis University		
National Broadcasting Co., Inc.		

770 kilocycles 389.4 meters

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

770		
KFAB Broadcasting Co.		
WBMM Bdctg. 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.
KTM	ae	500	2(1)	Los Angeles, Calif.
WEAN	ak	250	CH(.5)	Providence, R. I.
WMC	ak	500	N(1)	Memphis, Tenn.
WPOR	aeH	500	b	Portsmouth, Va.
WTAR	aeH	500	bC	Norfolk, Va.
XEZ	z	500	.....	Mexico, Mexico

775		
Manitoba Telephone System		
Enrique Arteajo		
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 Capilla		

790 kilocycles 379.5 meters

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

790		
Frank H. Jones		
Tano Gomez		
General Electric Co. (Opr. NBC)		
General Electric Co.		

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800 kilocycles 374.8 meters

WBAP ak 10000 1N Fort Worth, Texas  
WFAA ak 50000 1N Dallas, Texas

Carter Publications, Inc.  
Dallas News-Dallas Journal

77			
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810 kilocycles 370.2 meters

CHNS ae 500 815aZG Halifax, N. S.  
CNRH ak 500 815aZ Halifax, N. S.  
VOAS ak 200 D St. John's, N. F.  
WCCO ae 50000 C Minneapolis, Minn.  
WPCH ak 500 D New York City  
XFC 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

81			
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820 kilocycles 365.6 meters

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

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

82			
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830 kilocycles 361.2 meters

CMGA z 100 834 Colon, Cuba  
KOA ak 12500 NJ Denver, Colo.  
WEEU ak 1000 D Reading, Pa.  
WRHF ae 1000 DY Boston, Mass.  
WRUF 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.)

83			
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840 kilocycles 356.9 meters

CHNC z 500 a Toronto, Ont.  
CKGW ae 5000 NEa Toronto, Ont.  
CIGL ak 1000 G Red Deer, Alta.  
CMC z 500 ..... Havana, Cuba  
CPRY 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

84			
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850 kilocycles 352.7 meters

KIEV z 100 D Glendale, Calif.  
KWKH ae 10000 I Shreveport, La.  
WWL ak 5000 IDnX New Orleans, La.

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

85			
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860 kilocycles 348.6 meters

WABC ae 50000 aC New York City  
WBQO ae 50000 a New York City  
WHB ae 500 D Kansas City, Mo.  
XFX z 500 867 Mexico City, Mexico

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

86			
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870 kilocycles 344.6 meters

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

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

87			
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880 kilocycles 340.7 meters

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

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

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890 kilocycles 336.9 meters

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

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

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KCYS.

890

MTRS.

336.9

DIAL

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<b>VOGT</b>	z	400	893	Wabana, N. F.	The Gaiety Theatre
<b>WGST</b>	ae	250	C(.5)	Atlanta, Ga.	Southern Broadcasting Co.
<b>WILL</b>	ak	250	2(.5)	Urbana, Ill.	University of Illinois
<b>WJAR</b>	ae	250	(.5)R	Providence, R. I.	The Outlet Co.
<b>WMMN</b>	ae	250	(.5)	Fairmont, W. Va.	A. M. Rowe, Inc.

### 900 kilocycles 333.1 meters

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

### 910 kilocycles 329.6 meters

<b>CFQC</b>	z	500	.....	Saskatoon, Sask.	The Electric Shop, Ltd.
<b>CFLC</b>	z	100	915	Prescott, Ont.	Radio Association of Prescott
<b>TICR</b>	z	50	911	San Jose, Costa Rica	
<b>VOGY</b>	z	500	P	St. John's, N. F.	
<b>XEW</b>	ak	5000	.....	Mexico City, Mexico	Cadena Radio-difusora Mexicana S. A.

### 920 kilocycles 325.9 meters

<b>CMCD</b>	ae	250	925	Havana, Cuba	Angel Bertematy y Garcia
<b>CMDE</b>	z	250	925	Havana, Cuba	Evlilio Villar
<b>HFH</b>	z	1000	.....	Port au Prince, Haiti	Republic of Haiti
<b>KFEL</b>	ak	500	1	Denver, Colo.	Gene O'Fallon (Albany Hotel)
<b>KFPX</b>	ae	500	1	Denver, Colo.	Colorado Radio Corp.
<b>KOMO</b>	aj	1000	N	Seattle, Wash.	Fisher's Blend Station, Inc.
<b>KPRC</b>	ae	1000	N(2.5)	Houston, Texas	Houston Printing Co. (Houston Post)
<b>WAAF</b>	ak	500	D	Chicago, Ill.	Drovers Journal Publishing Co.
<b>WBSO</b>	ae	500	D	Babson Park, Mass.	Broadcasting Service Org., Inc.
<b>WWJ</b>	ak	1000	R	Detroit, Mich.	The Detroit News

### 930 kilocycles 322.4 meters

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

### 940 kilocycles 319.0 meters

<b>KOIN</b>	zk	1000	CT	Portland, Ore.	KOIN, Inc. (New Heathman Hotel)
<b>WAAT</b>	ae	300	D	Jersey City, N. J.	Bremer Broadcasting Corp.
<b>WCSH</b>	ae	1000	R(2.5)	Portland, Maine	Congress Square Hotel Co.
<b>WDAY</b>	ae	1000	N	Fargo, No. Dakota	WDAY, Inc. (Black Bldg.)
<b>WFTW</b>	ae	1000	C	Hopkinsville, Ky.	WFTW, Inc.
<b>WHA</b>	ak	1000	D	Madison, Wis.	University of Wisconsin
<b>XEFO</b>	ak	5000	(35)	Mexico City, Mexico	National Revolucionario Party

### 950 kilocycles 315.6 meters

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

### 960 kilocycles 312.3 meters

<b>CHCK</b>	ak	100	V	Charlottetown, P.E. I.	J. A. Gesner & W. E. Burke
<b>CHWC</b>	ak	500	3FL	Regina, Sask.	R. H. Williams & Sons, Ltd.
<b>CKCK</b>	ak	500	3FL	Regina, Sask.	Leader Post, Ltd. (Leader Bldg.)
<b>CKNC</b>	ak	500	M	Toronto, Ont.	Canadian National Carbon Co., Ltd.
<b>CMAY</b>	z	150	965	Havana, Cuba	Efigenio Oliver
<b>CMBC</b>	z	150	965	Havana, Cuba	Domingo Fernandez
<b>CMJL</b>	z	50	.....	Camaguey, Cuba	Enrique Artimes
<b>XED</b>	z	10000	965	Reynosa, Mexico	International Broadcasting Co.
<b>YVIB</b>	z	.....	.....	Caracas, Venezuela	R.A. Distributors of benz
<b>XEAW</b>			965	(was XED)	[50]
<b>CMCW</b>			965	Monterrey	

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 970 kilocycles 309.1 meters

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

97			
Northwest Broadcasting System, Inc. Chicago Federation of Labor			

### 980 kilocycles 305.9 meters

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

98			
The Voice of the Prairies, Ltd. Bernabe R. de la Torre Westinghouse Elec. & Mfg. Co.			

### 990 kilocycles 302.8 meters

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

99			
Westinghouse Elec. & Mfg. Co. Westinghouse Elec. & Mfg. Co. Arturo Martinez			

### 1000 kilocycles 299.8 meters

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

995			
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 Sanchez 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.			

KCY5.

1050

MTRS.

285.5

DIAL

### 1010 kilocycles 296.8 meters

~~CKIC~~ ak 50 ..... Wolfville, N. S.  
~~CMBZ~~ ak 150 ..... Havana, Cuba  
~~CMCX~~ z 150 ..... Havana, Cuba  
~~KGGF~~ ak 500 2(1) Coffeyville, Kans.  
~~KQW~~ ae 500 T San Jose, Calif.  
~~WHN~~ ae 250 1 New York City  
~~WVIS~~ ae 500 N(1) Columbia, S. C.  
~~WNAD~~ ae 500 2 Norman, Okla.  
~~WPAP~~ ae 250 1a New York City  
~~WVQAQ~~ ae 250 1a New York City  
~~WVQNO~~ z 250 1 New York City

1000			
Acadia University Manuel & Guillermo Salas Diario "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

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

101			
Westinghouse Elec. & Mfg. Co. (KFKX) WRAX Broadcasting Co. Carlos de la Sierra			

### 1030 kilocycles 291.1 meters

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

102			
Canadian Marconi Co. Laviz & Paz Pinol Batlle y Co. Canadian National Railways El Buen Tono, S. A.			

### 1040 kilocycles 288.3 meters

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

103			
O. y J. Alvarez KRLD Radio Corp. (Adolphus Hotel) Chamber of Commerce Michigan State College			

### 1050 kilocycles 285.5 meters

CMJG z 50 ..... Camaguey, Cuba  
~~KFBI~~ ae 5000 Dn Abilene, Kans.  
~~KNX~~ ae 25000 X Hollywood, Calif.  
 XEFC z 10 ..... Merida, Yuc.  
 XES adk 500 1055K Tampico, Mexico

104			
Jose Antonio Lefran Farmers & Bankers Life Ins. Co. Western Broadcast Co. Hugo Molina Font Wendell Cox			

CUT OUT ON DOTTED LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1060 kilocycles 282.8 meters

KWJJ	z	500	Dn	Portland, Ore.
WBAL	ae	1000	1B	Baltimore, Md.
WJAG	ak	1000	Dn	Norfolk, Neb.
WTIC	ak	5000	1R	Hartford, Conn.

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

### 1070 kilocycles 280.2 meters

CMBG	z	225	.....	Havana, Cuba
CMCB	af	150	.....	Havana, Cuba
KYBS	ae	100	D	San Francisco, Calif.
WCAZ	ae	50	D	Carthage, Ill.
WDZ	ak	100	D	Tuscola, Ill.
WTAM	ak	5000	R	Cleveland, Ohio
XEG	z	250	.....	Mexico City, Mexico

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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

WBT	ae	2500	CU	Charlotte, N. C.
WCBD	ae	5000	1Dn	Zion, Ill.
WBMI	ck	5000	1Dn	Chicago, Ill.

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Station WBT, Inc.  
Wilbur Glenn Voliva  
Moody Bible Institute

### 1090 kilocycles 275.1 meters

KMOX	ak	5000	C	St. Louis, Mo.
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Voice of St. Louis, Inc.

### 1100 kilocycles 272.6 meters

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

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

### 1110 kilocycles 270.1 meters

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

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Rey-Borges  
Sioux Falls Broadcast Assn., Inc.  
Larus & Bros. Co., Inc.  
Norman T. Baker

### 1120 kilocycles 267.7 meters

CFCA	ak	500	G	Toronto, Ont.
CFJC	ak	100	EL	Kamloops, B. C.
CHGS	ce	100	VX	Summerside, P. E. I.
CJOC	ak	100	.....	Lethbridge, Alta.
CMHJ	ae	40	1125	Cienfuegos, Cuba
KFIO	ae	100	D	Spokane, Wash.
KFSG	ae	500	3	Los Angeles, Calif.
KRKC	ae	500	3	Los Angeles, Calif.
KTRH	ak	100	D	Seattle, Wash.
WDEL	aj	250	(.5)	Houston, Tex.
WHDH	ae	250	1C	Wilmington, Del.
WISN	ak	250	1C	Milwaukee, Wis.
WTAW	ae	500	2	Milwaukee, Wis.
				College Station, Texas

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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

KSL	ae	5000	C	Salt Lake City, Utah
WJJD	ze	2000	Dn	Chicago, Ill.
WVOV	ae	1000	D	New York City
XEH	ak	1000	1132	Monterrey, Mexico

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

### 1140 kilocycles 263.0 meters

CMBJ	z	150	.....	Havana, Cuba
CMBW	z	150	.....	Havana, Cuba
KVOO	ae	5000	1N	Tulsa, Okla.
WAPI	aj	5000	1N	Birmingham, Ala.
XETA	z	500	.....	Mexico City, Mexico

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Emilio Perera  
Alvarez-Moris  
Southwestern Sales Corp.  
WAPI Broadcasting Corp.  
Manuel Espinosa Tagle

### 1150 kilocycles 260.7 meters

CMJH	ak	50	.....	Ciego de Avila, Cuba
WHAM	ae	5000	BX	Rochester, N. Y.
XBA	ak	500	K1155	Guadalajara, S. A.
10-AT	z	25	1155	Trail, B. C.

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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.  
 WWVA 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.  
 WDG Y ak 1000 Dn Minneapolis, Minn.  
 WINS ae 500 ..... New York City  
 WMAZ ak 500 ..... Macon, Ga.  
 CMAZ 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.  
 CKOV ak 100 ..... Kelowna, B. C.  
 CMGB z 30 1205 Matanzas, Cuba  
 KBMT ak 100 D Paragould, Ark.  
 KERN ak 100 CT Bakersfield, Calif.  
 KFJF ak 100 (.25) Marshalltown, Iowa  
 KFWF ak 100 5 St. Louis, Mo.  
 KF XD ae 100 ..... Nampa, Idaho  
 KGDE ak 100 (.25) Fergus Falls, Minn.  
 KGDY ak 100 ..... Huron, S. D.  
 KGEK ak 100 9 Yuma, Colo.  
 KGEV ak 100 9 Ft. Morgan, Colo.  
 KGFJ ak 100 ..... Los Angeles, Calif.  
 KGHI ak 100 ..... Little Rock, Ark.  
 KGVO ak 100 ..... Missoula, Mont.  
 KMLB ae 100 ..... Monroe, La.  
 KVOS z 100 ..... Bellingham, Wash.  
 KWG aeh 100 CT Stockton, Calif.  
 WABI ak 100 ..... Bangor, Maine  
 WABZ ak 100 1 New Orleans, La.  
 WBZZ 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.  
 WJBC ae 100 6 LaSalle, Ill.  
 WJBL ae 100 6 Decatur, Ill.  
 WJBW ak 100 1 New Orleans, La.  
 WKJC ae 100 3 Lancaster, Pa.  
 WLAP ae 100 (.25) Louisville, Ky.  
 WNB0 aeh 100 ..... Washington, Pa.  
 WNBW z 10 (.1) Carbondale, Pa.  
 WORC ak 100 CH Worcester, Mass.  
 WPHR ae 100 (.25) Petersburg, Va.  
 WRBL ak 100 ..... Columbus, Ga.  
 WWAEE aeh 100 8 Hammond, Ind.  
 10-AB ak 15 ..... Moose Jaw, Sask.  
 10-AK ak 25 ..... Stratford, Ont.  
 10-BI ak 25 ..... Prince Albert, Sask.  
 10-BP ak 25 1199 Wingham, Ont.  
 10-BO ak 15 ..... Brantford, Ont.  
 10-BU 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. Kleindinst  
 WLBG, Inc.  
 WRBL Radio Station, Inc.  
 Hammond-Calumet 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.

KCY.S.  
 1210  
 MTRS.  
 247.8  
 DIAL

CUT OUT ON DOTTED LINES

1210 kilocycles 247.8 meters

CFCO 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

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

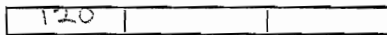
### 1220 kilocycles 245.8 meters

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



### 1230 kilocycles 243.8 meters

CMBY	z	350	.....	Havana, Cuba	Callejas-Estefani
CMCA	z	150	.....	Havana, Cuba	Manuel Cruz
KFOD	aj	250	.....	Anchorage, Alaska	Anchorage Radio Club, Inc.
KGGM	ak	250	(5)	Albuquerque, N. M.	New Mexico Broadcasting Co.
KYA	ae	1000	N	San Francisco, Calif.	Pacific Broadcasting Co.
WFEM	ae	1000	1C	Indianapolis, Ind.	Indianapolis Power & Light Co.
WNAC	ae	1000	CH	Boston, Mass.	Shepard Broadcasting Service, Inc.
WSBT	ak	500	1C	South Bend, Ind.	South Bend Tribune (WFAM)
XETQ	z	100	.....	Mexico, Mexico	Carlos G. Caballero



### 1240 kilocycles 241.8 meters

CMAB	z	20	1249	Pinar del Rio, Cuba	Jose Silvera
KGCU	ak	250	3	Mandan, N. Dak.	Mandan Radio Assn.
KLPM	x ak	250	3	Minot, N. Dak.	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
WAO	ak	1000	1C	Waco, Texas	Central Texas Broadcasting Co.
WKAO	ae	1009	.....	San Juan, P. R.	Radio Corp. of Porto Rico
WXYZ	ak	1000	.....	Detroit, Mich.	Kunsky-Trendle Broadcasting Corp.

### 1250 kilocycles 239.9 meters

KFMX	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.
WAL	ae	1000	2	Northfield, Minn.	St. Olaf College
WDSU	ak	1000	C	New Orleans, La.	Jos. H. Uhalt
WGCP	ak	250	1	Newark, N. J.	May Radio Broadcasting Co.
WLB	ak	1000	2	Minneapolis, Minn.	University of Minnesota
WODA	z	1000	1	Paterson, N. J.	Richard E. O'Dea
WRHM	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
COIL	ak	1000	B	Council Bluffs, Iowa	Mona Motor Oil Co.
KRGV	ae	500	1	Harlingen, Texas	KRGV, Inc. (Rio Grande Na. Life Bldg.)
KVOA	ak	500	P	Tucson, Arizona	ROBERT M. Riculfi
KWWG	z	500	1	Brownsville, Texas	Frank P. Jackson
WLBW	ae	500	C(1)	Erie, Pa.	Broadcasters of Pennsylvania, Inc.
WNBX	ak	250	D	Springfield, Vt.	WNBX Broadcasting Corp.
WTOC	ae	500	CU	Savannah, Ga.	Savannah Broadcasting Co., Inc.

### 1270 kilocycles 236.1 meters

CMBD	z	150	.....	Havana, Cuba	Luis Perez Garcia
CMCN	z	250	.....	Havana, Cuba	Antonio Ginard
CMJN	z	50	.....	Camaguey, Cuba	E. de Ugarriz
KGCA	ak	100	D2	Decorah, Iowa	Chas. W. Greenley
KOL	ae	1000	CT	Seattle, Wash.	Seattle Broadcasting Co.
KVOR	ae	1000	C	Colorado Springs, Col.	Reynolds Radio Co., Inc.
KWLC	ak	100	D2	Decorah, Iowa	Luther College
WASH	ak	500	a	Grand Rapids, Mich.	Kunsky-Trendle Broadcasting Corp.
WESG	ae	1000	D	Elmira, N. Y.	Cornell University
WFRB	ae	500	R	Baltimore, Md.	Baltimore Radio Show, Inc.
WJDX	ak	1000	N	Jackson, Miss.	Lamar Life Insurance Co.
WOOD	ak	500	a	Grand Rapids, Mich.	Kunsky-Trendle Broadcasting Corp.

### 1280 kilocycles 234.2 meters

KFBB	ae	1000	2(5)	Great Falls, Mont.	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 Bldg. Corp. (Hotel Patten)
WIBA	ae	500	N(1)	Madison, Wis.	Badger Broadcasting Co., Inc.
WOAX	ae	500	1	Trenton, N. J.	Trenton Broadcasting Co.
WRR	ae	500	C	Dallas, Texas	City of Dallas (Hilton Hotel)

### 1290 kilocycles 232.4 meters

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

### 1300 kilocycles 230.6 meters

CMKJ	z	20	.....	Guantanamo, Cuba	Luis Morlote
KALE	ak	500	3C	Portland, Ore.	KALE, Inc.
KFAC	aj	1000	.....	Los Angeles, Calif.	Los Angeles Broadcasting Co.
KFH	ae	1000	3	Wichita, Kans.	Wichita Eagle—Hotel Lassen
KFJR	ag	500	C	Portland, Ore.	Ashley C. Dixon—KFJR, Inc.
WBBR	aej	1000	1	Brooklyn, N. Y.	Peoples Pulpit Assn.
WEVD	ae	500	1	New York City	Debs Memorial Radio Fund, Inc.
WFAB	z	1000	1	New York City	Defenders of Truth Society, Inc.
WHAZ	ae	500	1	Troy, N. Y.	Rensselaer Polytechnic Institute
WIOD	ae	1000	N	Miami, Fla.	Isle of Dreams Broadcasting Corp.
WOO	ak	1000	.....	Kansas City, Mo.	Unity School of Christianity
XEM	r	250	.....	Tampico, Tams, Mex.	María T. de Gutierrez

KYCS.  
1300  
MTRS.  
230.6  
DIAL

CUT OUT ON DOTTED LINES

INDEX BY FREQUENCIES AND DIAL NUMBERS

1310 kilocycles 228.9 meters

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

1320 kilocycles 227.1 meters

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CMCR	z	150	1325	Havana, Cuba	Aurelio Hernandez
KGHF	ak	250	(.5)	Pueblo, Colo.	C. P. Ritchie & J. E. Finch
KGMB	ak	250	C	Honolulu, Hawaii	Honolulu Broadcasting Co.
KID	ae	250	(.5)	Idaho Falls, Idaho	KID Broadcasting Co., Inc.
WADC	ae	1000	C	Akron, Ohio	Allan T. Simmons
WSMB	ae	500	N	New Orleans, La.	WSMB, Inc.

1330 kilocycles 225.4 meters

128

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

1340 kilocycles 223.7 meters

129

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

INDEX BY FREQUENCIES AND DIAL NUMBERS

1350 kilocycles 222.1 meters

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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
WEDC	ae	500	DY	Emory, Va.
WMSG	ae	250	1a	New York City

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

1360 kilocycles 220.4 meters

130

CMBF	z	150	1365	Havana, Cuba
CMCW	ak	150	1365	Havana, Cuba
CMCYX	ak	1000	1365	Havana, Cuba
KGER	ah	1000	.....	Long Beach, Calif.
KGIR	ak	500	NJ	Butte, Mont.
WCSC	ak	500	.....	Charleston, S. C.
WFBL	ak	1000	C(2.2)	Syracuse, N. Y.
WJCS	ae	500	1(1)	Chicago, Ill.
WJKS	agj	1000	1Z	Gary, Ind.
WQBC	ak	500	.....	Vicksburg, Miss.

Ramon Bardales
Jose Lorenzo
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

130

CMGE	z	30	1375	Cardenas, Cuba
KCRC	ak	100	2(.25)	Enid, Okla.
KFBL	aj	50	3	Everett, Wash.
KFJM	zk	100	.....	Grand Forks, N. Dak.
KFJZ	ae	100	.....	Fort Worth, Texas
KFLX	z	100	.....	Galveston, Texas
KGAR	ae	100	(.25)	Tucson, Arizona
KGDA	ak	100	.....	Mitchell, S. Dak.
KGFG	bk	100	2	Oklahoma City, Okla.
KGFL	zk	100	4	Santa Fe, N. Mex.
KGKL	ak	100	.....	San Angelo, Texas
KICA	z	100	4	Clovis, N. Mex.
KMAC	ak	100	5	San Antonio, Texas
KONO	ak	100	5	San Antonio, Texas
KOOS	ae	100	.....	Marshfield, Ore.
KRE	ak	100	.....	Berkeley, Calif.
KUJ	ak	100	D	Walla Walla, Wash.
KVL	z	100	3	Seattle, Wash.
KWKC	z	100	.....	Kansas City, Mo.
WBTM	ak	100	7	Danville, Va.
WCBM	ae	100	Z(.25)	Baltimore, Md.
WDAS	ae	100	(.25)	Philadelphia, Pa.
WGLC	z	50	Y(1)	Glens Falls, N. Y.
WGL	ae	100	C	Fort Wayne, Ind.
WHBD	bk	100	.....	Mount Orab, Ohio
WHBQ	ak	100	.....	Memphis, Tenn.
WHFD	ak	100	(.25)	Calumet, Mich.
WIBM	ae	100	1	Jackson, Mich.
WJBK	ae	50	10P	Detroit, Mich.
WJEQ	z	100	6P	Williamsport, Pa.
WJTL	ae	100	.....	Atlanta, Ga.
WLEY	ae	100	(.25)	Lexington, Mass.
WLVA	ck	100	7	Lynchburg, Va.
WMBR	ak	100	.....	Tampa, Fla.
WPFB	ak	100	.....	Hattiesburg, Miss.
WQDM	ae	100	D	St. Albans, Vt.
WRAK	ak	100	6	Williamsport, Pa.
WRAM	ae	100	.....	Wilmington, N. C.
WRDO	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)
O. T. Griffin & G. F. Bissell
F. P. Zieg
F. P. Moler
Station WHBQ, Inc. (Hotel Claridge)
Upper Michigan Broadcasting Co.
WIBM, Inc. (Osetga 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

1380 kilocycles 217.3 meters

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CMJH	z	150	1382	Camaguey, Cuba
KOH	ak	500	C	Reno, Nevada
KQV	ak	500	2	Pittsburgh, Pa.
KSO	z	100	BYZ(.25)	Clarinda, Iowa
WKBH	aj	1000	1C	LaCrosse, Wis.
WSMK	ak	200	2	Dayton, Ohio
XETB	z	125	.....	Torreon, 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

KCY.S.  
1380  
MTRS.  
217.3  
DIAL

CUT OUT  
LINES

## INDEX BY FREQUENCIES AND DIAL NUMBERS

### 1390 kilocycles 215.7 meters

KLRA	ae	1000	1C
KOY	ae	500	C
KUOA	bk	1000	1
WHK	ae	1000	C

Little Rock, Ark.  
Phoenix, Arizona  
Fayetteville, Ark.  
Cleveland, Ohio

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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	.....
KOCW	z	250	(.5)
WBAA	ak	500	1
WBBC	ae	500	2
WBCU	ak	500	2
WCMA	ak	500	1
WFOX	ak	500	2
WLBH	ak	500	1W
WLTH	ae	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

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Wfredo & 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

KFLV	ak	500	4
KGRS	ae	1000	1
WAAB	ae	500	CH
WBCM	ae	500	C
WDAG	ak	1000	1
WHBL	ae	500	4
WHIS	ak	250	2
WODX	ea	500	3CU
WRBX	ae	250	2
WSFA	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.

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

### 1420 kilocycles 211.1 meters

KABC	ak	100	.....
KBPS	aj	100	4
KCMC	ak	100	.....
KFIZ	ak	100	.....
KGFF	ak	100	.....
KGGC	ak	100	5
KGW	ak	100	1
KGTX	ak	100	.....
KGKX	z	100	.....
KICK	z	100	Y
KIDW	ak	100	1
KORE	ae	100	.....
KUMA	ak	100	.....
KWCR	ae	100	B(.25)
KXL	ae	100	4
WAGM	ae	100	.....
WAMC	ae	100	.....
WAZL	z	100	P2
WEHS	ak	100	a
WELL	z	50	.....
WENC	ak	100	D
WERE	ae	100	.....
WHDL	ae	100	D
WHFC	ae	100	a
WILM	ae	100	2
WJBO	z	100	D
WJMS	ak	100	.....
WKBI	ak	100	a
WLBF	ae	100	.....
WMAS	ak	100	CH
WMBW	ae	100	(.25)
WMBH	ak	100	(.25)
WPAD	ak	100	.....
WSPA	ae	100	(.25)
WTBO	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.  
Eugene, Ore.  
Yuma, Arizona  
Cedar Rapids, Iowa  
Portland, Ore.  
Presque Isle, Maine  
Anniston, Ala  
Hazleton, Pa.  
Cicero, Ill.  
Battle Creek, Mich.  
Americus, Ga.  
Erie, Pa.  
Tupper Lake, N. Y.  
Cicero, Ill.  
Wilmington, Del.  
New Orleans, La.  
Ironwood, Mich.  
Cicero, Ill.  
Kansas City, Kans.  
Springfield, Mass.  
Detroit, Mich.  
Joplin, Mo.  
Paducah, Ky.  
Spartanburg, S. C.  
Cumberland, Md.

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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.)  
Herman G. Halsted  
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.  
WLBF Bdctg. Co. (Aladdin Hotel)  
Albert S. Moffet  
Michigan Broadcasting Co.  
W. M. Robertson  
Paducah Bdctg. Co. (Citiz Hotel)  
The Voice of South Carolina  
Interstate Broadcasting System, Inc.

### 1430 kilocycles 209.7 meters

KBCA	ah	1000	N
KGNF	ak	500	D
WBAK	ak	500	1(1)

Los Angeles, Calif.  
North Platte, Neb.  
Harrisburg, Pa.

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

## INDEX BY FREQUENCIES AND DIAL NUMBERS

**WCAH** ae 500 CA Columbus, Ohio  
**WFEA** ae 500 CHA Manchester, N. H.  
**WHEC** ae 500 CA Rochester, N. Y.  
**WHP** ak 500 1CA(1) Harrisburg, Pa.  
**WNER** ae 500 ..... Memphis, Tenn.  
**WOKO** 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 Bdc'tg. Co. (WGBC)  
**WOKO, Inc.** (Hotel Ten Eyck)

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### 1440 kilocycles 208.2 meters

**CMBL** ak 20 1445 Havana, Cuba  
**CMBN** ak 30 1445 Havana, Cuba  
**KDFN** ak 500 ..... Casper, Wyo.  
**KLS** ae 250 D Oakland, Calif.  
**KXYZ** ak 250 ..... Houston, Texas  
**WBIG** ae 500 C(1) Greensboro, N. C.  
**WBCA** ah 250 ..... Allentown, Pa.  
**WBMD** ae 500 3C(1) Peoria, Ill.  
**WSAN** z 500 ..... Allentown, Pa.  
**WTAD** ak 250 a 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

**KTBS #1** ae 1000 N Shreveport, La.  
**WBMS** ak 250 1 Hackensack, N. J.  
**WGAR** ak 500 B Cleveland, Ohio  
**WHOM** ae 250 1 Jersey City, N. J.  
**WNJ** ak 250 1 Newark, N. J.  
**WSAR** aeh 250 ..... Fall River, Mass.  
**WTFI** ak 500 ..... Athens, Ga.

**Tri-State Bdc'tg. 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

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

**National Battery Broadcasting Co.**  
**Old Dominion Broadcasting Co.**

### 1470 kilocycles 204.0 meters

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

**Northwest Broadcasting System**  
**Life & Casualty Insurance Co.**

### 1480 kilocycles 202.6 meters

**CMBK** z 15 1485 Havana, Cuba  
**CMBR** z 40 ..... Havana, Cuba  
**KOMA** ak 5000 C Oklahoma City, Okla.  
**WKBW** ae 5000 C Buffalo, N. Y.

**Alberto Alvarez**  
**Tomas Basal**  
**National Radio Mfg. Co.**  
**Buffalo Broadcasting Corp.**

### 1490 kilocycles 201.2 meters

**WCKY** ae 5000 N Covington, Ky.

**L. B. Wilson, Inc. (Mabley & Carew)**

### 1500 kilocycles 199.9 meters

**KBD** ak 100 CT Santa Barbara, Calif.  
**KGFI** aj 100 (.25) Corpus Christi, Texas  
**KGFK** ak 50 ..... Moorhead, Minn.  
**KGIZ** ak 100 ..... Grant City, Mo.  
**KGKB** bk 100 ..... Tyler, Texas  
**KGKY** ck 100 ..... Scottsbluff, Neb.  
**KNOW** ak 100 ..... Austin, Texas  
**KPJM** ak 100 ..... Prescott, Arizona  
**KPO** aj 50 ..... Wenatchee, Wash.  
**KREG** ak 100 ..... Santa Ana, Calif.  
**KXO** z 100 ..... El Centro, Calif.  
**WFDV #1** ak 100 ..... Rome, Ga.  
**WHEF** ak 100 (.25) Kosciusko, Miss.  
**WKBV** z 100 ..... Connerville, Ind.  
**WKBZ** ak 100 ..... Ludington, Mich.  
**WLOE** ae 100 (.25) Boston, Mass.  
**WMBQ #1** ak 100 1 Brooklyn, N. Y.  
**WMIL** ak 100 1 Brooklyn, N. Y.  
**WMPC** ak 100 ..... Lapeer, Mich.  
**WNEF** ak 100 ..... Binghamton, N. Y.  
**WOPI #1** ae 100 ..... Bristol, Tenn.  
**WPFN** ce 100 (.25) Philadelphia, Pa.  
**WRDw** ae 100 ..... Augusta, Ga.  
**WSYB** aeh 100 ..... Rutland, Vt.  
**WVRL** ak 100 1 Woodside, N. Y.  
**WWSW** 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 Bdc'tg. Co. (Driskill Hotel)**  
**Scott & Sturm**  
**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.**  
**Radiophore Bdc'tg. Station WOPI**  
**Wm. Penn Broadcasting Co.**  
**Musicove, Inc. (Relays WLW)**  
**Philipp Weiss Music Co.**  
**Long Island Broadcasting Corp.**  
**Walker & Downing Radio Corp.**

**KCYS.**  
**1500**  
**MTRS.**  
**199.9**  
**DIAL**

# INDEX BY LOCATIONS WITH MAP KEY

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

ALABAMA			Watts	Keys.				Watts	Kcys.
Anniston O-21 tr	100	WAMC		1420	San Jose J-1	500	KQW	C	1010
Birmingham O-21	5000	WAPI	N	1140	Santa Ana M-3	100	KREG		1500
	500	WBRC	C	930	Santa Barbara M-2	100	KDB	C	1500
	100	WKBC		1310	Stockton J-2	250	KGDM	C	1100
	100	WJBY		1210		100	KWG	C	1200
Gadsden O-21	100	WBHS		1200	<b>COLORADO</b>				
Huntsville N-21 c	500	WDX	C	1410	Colorado Springs K-11	1000	KVOR	C	1270
Mobile Q-20	500	WSFA	C	1410	Denver K-11	500	KFEL		920
Montgomery P-21	100	WHET		1210		500	KFXF		920
Troy P-21 rc	100					1000	KLZ	C	560
						12500	KOA	N	830
<b>ALASKA</b>						500	KPOF		880
Anchorage	250	KFOD		1230	Fort Morgan J-11	100	KGEW		1200
Ketchikan	500	KGBU		900	Grand Junction K-9 lc	100	KFXJ		1310
						500	KFKA		880
<b>ARIZONA</b>						100	KIDW		1420
Jerome M-6	100	KCRJ		1310	Lamar L-12 lc	250	KGHF		1320
Phoenix N-6	500	KOY	C	1390	Pueblo L-11	100	KGW		1420
	500	KOT	N	620	Trinidad L-11	100	KGEK		1200
	100	KPJM		1500	<b>CONNECTICUT</b>				
Prescott M-6	100	KGAR		1370	Bridgeport H-27	250	WICC	C	600
Tucson O-7	500	KVOA		1260	Hartford H-27	500	WDRC	C	1330
Yuma O-5 tl	100	KUMA		1420		5000	WTIC	R	1060
						250	WCAC		600
<b>ARKANSAS</b>						50	KLCN		1290
Blytheville M-19	1000	KUOA		1390	<b>DELAWARE</b>				
Fayetteville M-16	100	KFPW		1210	Wilmington J-26	250	WDEL		1120
Fort Smith N-16	10000	KTHS	N	1040		100	WILM		1420
Hot Springs N-17	250	KARK		890	<b>DISTRICT OF COLUMBIA</b>				
Little Rock N-17	100	KGHI		1200	Washington J-26	10000	WJSV	C	1460
	1000	KLRA	C	1390		250	WMAL		630
	100	KBTM		1200		500	WRC	N	950
Paragould M-18	100	KCMC		1420		100	WOL		1310
Texarkana O-17 bl	100				<b>FLORIDA</b>				
<b>CALIFORNIA</b> ✓						1000	WFLA	N	620
Bakersfield L-2 br	100	KERN	C	1200	Clearwater R-24	1000	WRUF	C	830
Berkeley J-2	100	KRE		1370	Gainesville Q-24	1000	WJAX	N	900
Beverly Hills M-3 bl	500	KMPC		710	Jacksonville Q-24	1000	WIOD	N	1300
Burbank M-3	500	KELW		780	Miami T-25	1000	WQAM	C	560
El Centro N-4	100	KXO		1500	Orlando R-24	250	WDBO	C	580
Eureka H-1 tc	100	KIEM		1210	Pensacola Q-21	500	WCOA		1340
Fresno K-2	500	KMJ	C	580	St. Petersburg S-24	1000	WSUN	N	620
Glendale M-3	500	KIEV		850	Tampa R-24	1000	WDAE	C	1220
Hollywood M-3	500	KMTR		570		100	WMBR		1370
	25000	KNX		1050	<b>GEORGIA</b>				
Long Beach M-3	1000	KFOX	C	1250	Americus P-22 c	100	WENC		1420
	1000	KGER		1360	Athens N-23 bc	500	WTFI		1450
Los Angeles M-3	1000	KECA	N	1430	Atlanta O-22	250	WGST	C	890
	1000	KFAC		1300		100	WJTL		1370
	50000	KFI	N	640		5000	WSB	N	740
	500	KFSG		1120	Augusta O-23	100	WRDW		1500
	250	KFVD		1000	Columbus O-22	100	WRBL		1200
	1000	KFWB		950	Macon O-23	500	WMAZ		1180
	100	KGFJ		900	Rome N-22	100	WFVD		1500
	1000	KHJ	C	1200	Savannah O-24	500	WTOC	C	1260
	500	KRKD		1120	Thomasville Q-22	100	WQDX		1210
	500	KTM		780	<b>HAWAII</b>				
Oakland J-1	250	KLS		1440	Honolulu	250	KGMB	C	1320
	500	KLX		880		1000	KGU	N	750
	500	KROW		930	<b>IDAHO</b>				
	50	KPPC		1210	Boise G-5	1000	KIDO		1350
Pasadena M-3	100	KFBK	C	1310	Idaho Falls G-7	250	KID		1320
Sacramento J-2	100	KFXM		1210	Nampa G-5	100	KFXD		1200
San Bernardino M-3	500	KFSD	N	600	Pocatello H-7	250	KSEI		890
San Diego N-3	1000	KGB	C	1330	Lewiston E-5 rc	100	KGKX		1420
	1000	KFRC	C	610	Twin Falls H-6	500	KTFI		1240
	500	KFWI		930					
	100	KGGC		1420					
	7500	KGO	N	790					
	100	KJBS		1070					
	5000	KPO	N	680					
	1000	KTAB		560					
	1080	KYA	N	1230					

# INDEX BY LOCATIONS WITH MAP KEY

Columbia: C. National: Red, R; Blue, B; Both, N. 604-

## 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	WGN	C 720
	1000	WIBO	560
	20000	WJJD	1130
	50000	WLS	N 870
	5000	WMAQ	N 670
	5000	WMBI	1080
	500	WPCC	560
	100	WSBC	1210
Cicero I-20	100	WEHS	1420
	100	WHFC	1420
	100	WKBI	1420
	100	WJBL	1200
Decatur K-19	100	WKBS	1310
Galesburg J-18	100	WEBQ	1210
Harrisburg L-19	100	WCLS	1310
Joliet I-19	100	WKBB	1310
La Salle J-19	100	WJBC	1200
Peoria J-19	500	WMBD	C 1440
Quincy K-18	500	WTAD	1440
Rockford I-19	500	KFLV	1410
Rock Island I-18	100	WHBF	1210
Springfield K-19	100	WCBS	1210
	100	WTAX	1210
Tuscola K-20	100	WDZ	1070
Urbana J-20	250	WILL	890
Zion I-20	5000	WCBD	1080

## INDIANA

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

## IOWA

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

## KANSAS

	Watts		Kcys.
Abilene K-15 bl	5000	KFBI	1050
Coffeyville M-15 tr	500	KGGF	1010
Dodge City L-13	100	KGNO	1210
Kansas City K-16	100	WLBF	1420
Lawrence K-16	500	KFKU	1220
	1000	WREN	B 1220
Manhattan K-15	500	KSAC	580
Topeka K-16	1000	WIBW	C 580
Wichita L-15	1000	KFH	C 1300

## KENTUCKY

Covington K-22	5000	WCKY	N 1490
Hopkinsville M-20	1000	WFTW	C 940
Louisville L-21	25000	WHAS	C 820
	100	WLAP	1200
Paducah M-19	100	WPAD	1420

## LOUISIANA

Monroe P-18	100	KMLB	1200
New Orleans R-19	100	WABZ	1200
	1000	WDSU	C 1250
	100	WJBO	1420
	100	WJBW	1200
	500	WSMB	N 1320
	5000	WWL	850
Shreveport P-17	100	KRMD	1310
	1000	KTBS	N 1450
	100	KWEA	1210
	10000	KWKH	850

## MAINE

Augusta F-28	100	WRDO	1370
Bangor F-29	100	WABI	1200
	500	WLBZ	C 620
Portland F-28	1000	WCSH	R 940
Presque Isle D-29 1c	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	WBOS	920
Boston G-28	500	WAAB	C 1410
	25000	WBZ	B 990
	1000	WEEI	R 590
	1000	WHDH	830
	100	WLOE	1500
	1000	WNAC	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	WTAG	R 580

## MICHIGAN

Battle Creek I-21	50	WELL	1420
Bay City H-22	500	WBCM	C 1410
Calumet E-19	100	WHDF	1370
Detroit H-22	50	WJBK	1370
	10000	WJR	B 750
	100	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.
Flint H-22	100	WFDF	1310
Grand Rapids H-21	500	WASH	1270
	500	WOOD	1270
Ironwood F-18 rc	100	WJMS	1420
Jackson I-21	100	WIBM	1370
Kalamazoo I-21 tl	1000	WKZO	590
Lapeer H-22	100	WMPC	1500
Ludington H-20	100	WKBZ	1500
Marquette F-19	100	WBEO	1310
Royal Oak H-22	50	WEXL	1310

## MINNESOTA

Fergus Falls F-15	100	KGDE	1200
Minneapolis G-17	5000	WCCO	C 810
	1000	WDGY	1180
	1000	WLB	1250
	1000	WRHM	1250
Moorhead F-15	50	KGFK	1500
Northfield G-17	1000	KFMX	1250
	1000	WCAL	1250
St. Paul G-17	10000	KSTP	N 1460

## MISSISSIPPI

Greenville O-18	100	WKFI	1210
Gulfport Q-19	100	WGCM	1210
Hattiesburg Q-19	100	WPFB	1370
Jackson P-19	1000	WJDX	N 1270
Kosciusko O-19 bc	100	WHEF	1500
Laurel P-19 br	100	WTSL	1310
Meridian P-20	500	WCOC	880
Vicksburg P-18	500	WQBC	1360

## MISSOURI

Cp. Girardeau L-19	100	KFVS	1210
Columbia K-17	500	KFRU	630
Grant City J-16	100	KGIZ	1500
Jefferson City L-17	500	WOS	630
Joplin M-16	100	WMBH	1420
Kansas City K-16	1000	KMBC	C 950
	1000	KWKW	1370
	1000	WDAF	R 610
	500	WHB	860
	1000	WOQ	1300
St. Joseph K-16	2500	KFEQ	680
St. Louis L-18	500	KFUO	550
	100	KFWF	1200
	5000	KMOX	C 1090
	500	KSD	R 550
	1000	KWK	B 1350
	1000	WEW	760
	100	WIL	1200
Springfield M-17	1000	KGBX	1310

## MONTANA

Billings F-9	1000	KGHL	N 950
Butte F-7	500	KGIR	N 1360
Great Falls E-8	1000	KFBB	1280
Kalispell D-7	100	KGEZ	1310
Missoula E-7	100	KGVO	1200
Wolf Point E-11	100	KGCX	1310

## NEBRASKA

Clay Center J-14	1000	KMMJ	740
Kearney J-14 bc	100	KGFW	1310
Lincoln J-15	5000	KFAB	C 770
	100	KFOR	1210
	500	WCAJ	590
Norfolk I-15	1000	WJAG	1060
North Platte J-13	500	KGNF	1430
Omaha J-15	500	WAAW	660
	1000	WOW	R 590
Scottsbluff I-11	100	KGKY	1500
York J-15	500	KGZB	930

## NEVADA ✓

	Watts		Keys.
Las Vegas L-5	100	KGIX	1420
Reno I-3	500	KOIH	C 1380

## NEW HAMPSHIRE

Laconia G-28 lc	100	WKAU	1310
Manchester G-28	500	WFEA	C 1430
Portsmouth G-28 tc	250	WHEB	740

## NEW JERSEY

Asbury Park I-27	500	WCAP	C 1280
Atlantic City J-27	5000	WPG	C 1100
Camden I-26	500	WCAM	1280
Hackensack I-27	250	WBMS	1450
Jersey City I-27	300	WAT	940
	250	WHOM	1450
Newark I-27	1000	WAAW	1250
	250	WGGP	1250
	250	WNI	1450
	5000	WOR	710
Paterson I-27	1000	WODA	1250
Red Bank I-27	100	WJBI	1210
Trenton I-26	500	WOAX	1280
Zarephath I-27	250	WAWZ	1350

## NEW MEXICO

Albuquerque N-7	250	KGGM	1230
	10000	KOB	1180
Clovis O-11 tr	100	KICA	1370
Santa Fe M-10	100	KGFL	1370

## NEW YORK

Albany G-27 bl	500	WOKO	C 1430
Auburn H-25	100	WMBO	1310
Binghamton H-26	100	WMBF	1500
Brooklyn I-27	500	WBBC	1400
	1000	WBBR	1300
	500	WCGU	1400
	500	WFOJ	1400
	500	WLTH	1400
	100	WMBQ	1500
	100	WMIL	1500
Buffalo H-24	1000	WBEN	R 900
	100	WBFR	1310
	1000	WGR	C 550
	5000	WKBW	C 1480
	50	WSVS	1370
Canton F-26	500	WCAD	1220
Chester Twp.	50	WGNV	1210
Elmira H-25 c	1000	WESG	1270
Freeport I-27	100	WGBB	1210
Glens Falls G-27	50	WGLC	1370
Jamestown H-24	50	WOCL	1210
New York City I-27	50000	WABC	C 860
	250	WBNX	1350
	50000	WBQO	860
	250	WCDA	1350
	50000	WEAF	R 660
	500	WEVD	1300
	1000	WFAB	1300
	500	WINS	1180
	250	WHN	1010
	30000	WJZ	B 760
	5000	WLWL	1100
	500	WMCA	570
	250	WMSG	1350
	500	WNYC	570
	1000	WOV	1130
	250	WPAP	1010
	500	WPCH	810
	250	WQAO	1010
	250	WRNY	1010
Rochester G-25	5000	WHAM	B 1150
	500	WHYC	C 1430



# INDEX BY LOCATIONS WITH MAP KEY

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

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	Watts		Keys.
Saranac Lake F-26	50	WMBZ	1290
Schenectady G-27	5000	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	1370
Winston-Salem M-24	100	WSJS	C 1310

## NORTH DAKOTA

Bismarck F-13	1000	KFYR	N 550
Devils Lake E-14	100	KDLR	1210
Fargo F-15	1000	WDAY	N 940
Grand Forks E-15	100	KFIM	1370
Madam F-13	250	KGCU	1240
Minot E-13	250	KLPM	1240

## OHIO

Akron I-23	1000	WADC	C 1320
	100	WJW	1210
Canton I-23	10	WBHC	1200
Cincinnati K-22	100	WFBE	1200
	1000	WKRC	C 550
	50000	WLW	B 700
	500	WSAI	R 1330
Cleveland I-23	500	WGAR	B 1450
	1000	WHK	C 1390
	500	WJAY	610
Columbus J-22	50000	WTAM	R 1070
	500	WATU	640
	500	WCAH	C 1430
	750	WEAO	570
	100	WSEN	1210
	200	WSMK	1380
Dayton J-22	100	WHBD	1370
Mount Orab K-22	100	WSPD	C 1340
Toledo I-22	1000	WSPD	C 1340
Youngstown I-23	500	WKBN	C 570
Zanesville J-23	100	WALR	1210

## OKLAHOMA

Chickasha N-14	250	KOCW	1400
Elk City N-13	100	KASA	1210
Enid M-14	100	KCRC	1370
Norman N-15	500	WNAD	1010
Oklahoma N-15	100	KFXR	1310
	100	KGFG	1370
	5000	KOMA	C 1480
	1000	WKY	N 900
Ponca City M-15	100	WBBZ	1200
Shawnee N-15	100	KGFF	1420
Tulsa M-15	5000	KVOO	N 1140

## OREGON ✓

Corvallis E-2	1000	KOAC	550
Eugene F-2	100	KORE	1420
Klamath Falls G-3 c	100	KFJI	1210
Marshfield F-1	100	KOOS	1370
Medford G-2	100	KMED	1310

	Watts		Keys.
Portland E-3	500	KALE	C 1300
	5000	KEX	N 1180
	100	KBFS	1420
	500	KFJR	1300
	1000	KGW	N 620
	1000	KOIN	C 940
	500	KWJJ	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
Erie H-24	100	WERE	1420
	500	WLBW	C 1260
	25	WIBG	930
Glenside I-26 rc	100	WSAJ	1310
Grove City I-24	500	WBAK	1430
Harrisburg I-25	100	WCOD	1200
	500	WHP	C 1430
	100	WAZL	1420
Hazleton I-26 lc	100	WJAC	1310
Johnstown J-24	100	WGAL	1310
Lancaster I-26	100	WKJC	1200
	100	WJBU	1210
Lewisburg I-26	50000	WCAU	C 1170
Philadelphia I-26	100	WDAS	1370
	500	WFAN	C 610
	500	WFI	R 560
	100	WHAT	1310
	500	WIP	C 610
	500	WLIT	R 560
	100	WPEN	1500
	250	WRAX	1020
	100	WTEL	1310
Pittsburgh J-24	50000	KDKA	B 980
	500	KQV	1380
	1000	WCAB	R 1220
	1000	WJAS	C 1290
	100	WWSW	1500
Reading I-26	1000	WEEU	830
	100	WRAW	1310
Scranton H-26	250	WGBI	880
	250	WQAN	880
Washington J-24	100	WNBO	1200
Wilkes-Barre I-26	100	WBAX	1210
	100	WBRE	1310
Williamsport I-25	100	WRAK	1370
	100	WJEQ	1370
York J-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	WPAW	1210
	100	WPRO	1210

## SOUTH CAROLINA

Charleston O-25	500	WCSC	1360
Columbia N-24	500	WIS	N 1010
Spartanburg N-23	100	WSPA	1420

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# INDEX BY LOCATIONS WITH MAP KEY

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

SOUTH DAKOTA			Watts	Keys.	VIRGINIA			Watts	Keys.
Brookings H-15	500	KFDY	550	550	Arlington J-25	1000	NAA	690	
Huron H-14	100	KGDY	1200	1200	Danville L-25	100	WBTM	1370	
Mitchell H-14	100	KGDA	1370	1370	Emory L-23	500	WEHC	1350	
Pierre G-13	200	KGFX	630	630	Lynchburg L-25	100	WLVA	1370	
Rapid City H-12	100	WCAT	1200	1200	Newport News L-26	100	WGH	1310	
Sioux Falls H-15	1000	KS00	1110	1110	Norfolk L-26	500	W TAR	C 780	
Vermillion I-15	500	KUSD	890	890	Petersburg L-26	100	WPHR	1200	
Watertown G-15	100	KGCR	1210	1210	Portsmouth L-26 tc	500	WPOR	780	
Yankton I-15	1000	WNAX	C 570	570	Richmond K-26	100	WBBL	1210	
						100	WMBG	C 1210	
						5000	WRVA	N 1110	
					Roanoke L-24	250	WDBJ	C 930	
						250	WRBX	1410	
<b>TENNESSEE</b>					<b>WASHINGTON</b>				
Bristol L-23	100	WOPI	1500	1500	Aberdeen D-2	100	KXRO	1310	
Chattanooga N-21	1000	WDOD	C 1280	1280	Bellingham C-3	100	KVOS	1200	
Jackson M-19 br	100	WTJS	1310	1310	Everett C-3	50	KFBL	1370	
Knoxville M-22	1000	WNOX	C 560	560	Olympia D-3 tl	100	KGY	1210	
	100	WROL	1310	1310	Pullman E-5	1000	KWSC	1220	
Memphis N-19	100	WHBQ	1370	1370	Seattle C-3	5000	KJR	N 970	
	500	WMC	N 780	780		1000	KOL	N 1270	
	500	WNBR	1430	1430		1000	KOMO	N 920	
	500	WREC	C 600	600		100	KPCB	650	
Nashville M-21	5000	WLAC	C 1470	1470		100	KRSC	1120	
	5000	WSM	N 650	650		1000	KTW	1220	
Springfield M-20	100	WSIX	1210	1210		100	KVL	1370	
						250	KXA	760	
<b>TEXAS</b>					Spokane D-5	100	KFIO	1120	
Amarillo N-12	1000	KGRS	1410	1410		1000	KFPY	C 1340	
	1000	WDAG	1410	1410		5000	KGA	B 1470	
Austin Q-14	100	KNOW	1500	1500		1000	KHQ	N 1590	
Beaumont R-17	500	KFDM	560	560	Tacoma D-3	250	KMO	C 1330	
Brownsville U-15	500	KWWG	1260	1260		500	KVI	C 570	
College Sta. Q-15	500	WTAW	1120	1120	Walla Walla E-5	100	KUJ	1370	
Corpus Christi S-14	100	KGFI	1500	1500	Wenatchee D-4	50	KPO	1500	
Dallas P-15	10000	KRLD	C 1040	1040	Yakima D-4	100	KIT	1310	
	5000	WFAA	N 800	800					
	500	WRR	C 1280	1280	<b>WEST VIRGINIA</b>				
Dublin P-14	100	KFPL	1310	1310	Bluefield L-24	250	WHIS	1410	
El Paso P-9	100	KTSM	1310	1310	Charleston K-23	250	WOBV	580	
	100	WDAH	1310	1310	Fairmont J-24	250	WMNM	890	
Fort Worth P-15	100	KFJZ	1370	1370	Huntington K-23	250	WSAZ	580	
	1000	KTAT	1240	1240	Wheeling J-24	5000	WVVA	C 1160	
	1000	WBAP	N 800	800	<b>WISCONSIN</b>				
Galveston R-16	100	KFLX	1370	1370	Eau Claire G-18	1000	WTAQ	C 1330	
	500	KFUL	1290	1290	Fond du Lac H-19	100	KFIZ	1420	
Greenville O-15	15	KFPM	1310	1310	Green Bay G-19	100	WHBY	1200	
Harlingen T-14	500	KRGV	1260	1260	Janesville I-19	100	WCLO	1200	
Houston R-16	1000	KPRC	N 920	920	La Crosse H-18	1000	WKBH	C 1380	
	500	KTRH	C 1120	1120	Madison H-19	1000	WHIA	940	
	250	KXYZ	1440	1440		500	WIBA	N 1280	
Lubbock O-12 tr	100	KFYO	1310	1310		100	WOMT	1210	
San Angelo Q-13	100	KGKL	1370	1370		250	WHAD	C 1120	
San Antonio R-14	100	KABC	1420	1420		250	WISN	C 1120	
	100	KMAC	1370	1370		1000	WTMJ	N 620	
	100	KONO	1370	1370	Manitowoc H-20	100	WIBU	1210	
	1000	KTSA	C 1290	1290	Milwaukee H-19	250	WRJN	1370	
	5000	WOAI	N 1190	1190		500	WHBL	1410	
Tyler P-16 rc	100	KGKB	1500	1500	Poynette H-19	2000	WLBL	900	
Waco Q-15	1000	WACO	C 1240	1240	Racine I-20	1000	WEBC	N 1290	
Wichita Falls O-14	250	KGKO	570	570	Sheboygan H-20	500	WLBK	1410	
					Stevens Point G-19	2000	WLBK	900	
					Superior F-17	1000	WEBC	N 1290	
<b>UTAH</b>					<b>WYOMING</b>				
Salt Lake City I-7	2500	KDYL	N 1290	1290	Casper H-10	500	KDFN	1440	
	500	KLO	1400	1400					
	50000	KSL	C 1130	1130	<b>CANADA</b>				
<b>VERMONT</b>					<b>ALBERTA</b>				
Burlington F-27	100	WCAX	1200	1200	Calgary B-7	500	CFAC	690	
Rutland G-27	100	WSYB	1500	1500		10000	CFCN	985	
St. Albans F-27	100	WQDM	1370	1370		500	CJ CJ	690	
Springfield G-27	250	WNBX	1260	1260					
Waterbury F-27 c	500	WDEV	550	550					

# INDEX BY LOCATIONS WITH MAP KEY

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

29

	Watts		Keys.
Edmonton A-8	250	CHMA	580
	500	CJCA	745
	500	CKUA	580
Le hbridge C-8	100	CJOC	1120
Red Deer A-8	1000	CKLC	840

## BRITISH COLUMBIA

Chilliwack B-3	100	CHWK	665
Kamloops B-5	100	CJFC	1120
Kelowna C-6 tl	100	CKOV	1200
Trail C-6 c	25	10-AT	1155
Vancouver B-3	100	CHLS	730
	500	CJOR	1210
	100	CKCD	730
	50	CKFC	730
	100	CKMO	730
	100	CKWX	730
	500	CNRV	1030
	500	CFCT	630

Victoria C-3

## MANITOBA

Brandon D-14	500	CKX	930
Winnipeg D-15	5000	CKY	780

## NEW BRUNSWICK

Fredericton D-29	100	CFNB	1210
Moncton D-30	700	CNRA	630
St. John D-30	500	CFBO	890

## NOVA SCOTIA

Glace Bay C-32	2000	VAS	685
Halifax E-31	500	CHNS	815
	500	CNRH	815
	100	VCX	690
Sydney C-32	100	CJCB	880
Wolfville D-31	500	CKIC	1010

## ONTARIO

Brantford H-23 tr	15	10-BQ	1200
Chatham H-22	250	CFCO	1210
Cobalt E-23	100	CKMC	1210
Ft. William E-19 bl	100	CKPR	890
Hamilton H-24	50	CHML	880
	1000	CKOC	635
Kingston G-25	50	CFRC	930
London H-23	5000	CJGC	595
North Bay F-23 c	100	CFCH	930
Ottawa F-25	100	CKCO	890
	500	CNRO	600
Prescott F-25	100	CFLC	915
Preston H-23	100	CKPC	880
St. Catharines H-24 tl	1000	CKTB	635
Stratford H-23 tc	15	10-AK	1200
Toronto G-24	500	CFCA	1120
	10000	CFRB	C 690
	5000	CHNC	840
	500	CKCL	580
	5000	CKGW	N 840
	500	CKNC	960
	5000	CPRY	840
Waterloo G-23	100	CKCR	645
Windsor I-22 tc	5000	CKOK	C 540
Wingham G-23	25	10-BP	1199

## PRINCE EDWARD ISLAND

Charlottetown C-31	500	CFCY	580
	100	CHCK	960
Summerside C-31	100	CHGS	1120

## QUEBEC

Montreal E-26	500	CFCF	N 1030
	100	CHCH	1200
	5000	CHYC	730
	5000	CKAC	C 730

	Watts		Keys.
Quebec D-27	100	CHRC	645
	180	CKCI	645
	100	CKCV	880

## SASKATCHEWAN

Canora B-13 tl	15	10-BU	1200
Fleming C-13	1000	CJRW	665
Moose Jaw C-11	500	CJRM	665
	25	10-AB	1200
Prince Albert A-11 rc	25	10-BI	1200
Regina C-12	500	CHWC	960
Saskatoon B-11	500	CFQC	960
Yorkton B-13	500	CJGX	630

## NEWFOUNDLAND

St. Johns A-35	200	VOAS	810
	500	VOGY	910
	100	VONA	950
	500	VONF	1115
	750	VOWR	750
Wabana A-35	400	VOGT	893

## CENTRAL AMERICA

### COSTA RICA

San Jose FF-23	50	TICR	911
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### GUATAMALA

Guatamala CC-18 tr	50	TGW	570
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### SALVADOR

Salvador CC-19 br	500	RUS	664
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## MEXICO

### AGUASCALIENTES

Aguascalientes W-11 bc	250	XFC	810
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### BAJA CALIFORNIA

Tiajuana N-3 bc	300	XEFD	1020
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### CHIHUAHUA

Chihuahua R-9	100	XEFI	1000
	250	XFF	875
Juarez P-9	101	XEJ	1000
	5000	XEQ	750

### COAHUILA

Saltillo, Coah. U-12	25	XEL	1000
Torreon U-11 tl	125	XETB	1380
	100	XETG	1000

Villa Acuna R-12 c	75000	XER-XEF	735
	1000	XEP	895

### D. F. ✓

Coyoacan Y-13	100	XEFZ	1370
Mexico City Y-13	1000	XEB	1030
	250	XEFA	1250
	250	XEG	1070
	101	XEK	990
	1000	XEN	711
	5000	XEFO	940
	500	XETA	1140
	100	XETQ	1230
	2500	XETR	610
	5000	XEW	910
	500	XEX	1210
	500	XEZ	780
	2000	XFG	638
	500	XFX	867
Toluca Y-12	50	XEC	1000

## INDEX BY LOCATIONS WITH MAP KEY

	Watts		Kcys.		Watts		Kcys.
<b>JALISCO</b>							
Guadalajara, Jal. X-10	500	XEA	1155	Guantanamo X-28 tc	20	CMKJ	1300
<b>MICHOACAN</b>				Havana W-23	500	CMAF	680
Morelia, Mich. Y-12	150	XEI	1310		150	CMAY	965
<b>NEUVO LEON</b>					150	CMBC	965
Monterrey, N. L. U-13	100	XEFB	1315		150	CMBD	1270
	1000	XEH	1132		150	CMBF	1365
	500	XET	690		225	CMBG	1070
<b>OAXACA</b>					150	CMBJ	1140
Oaxaca, Oax. AA-14	105	XEE	1000		15	CMBK	1485
<b>PUEBLA</b>					20	CMBL	1445
Puebla Z-13	101	XEV	1000		30	CMBN	1445
<b>QUERETARO</b>					40	CMBR	1485
Queretaro X-12 br	40	XEFS	1000		150	CMB S	780
<b>TAMAULIPAS</b>					150	CMBW	1140
N. Laredo S-13	101	XEFE	1000		350	CMBY	1230
	50000	XENT	1115		150	CMBZ	1010
	200	XEP	1400		500	CMC	840
Reynosa, Tams. T-14	10000	XED	965		150	CMCA	1230
Tampico, Tams. W-14	500	XEM	730		150	CMCB	1070
	500	XES	1055		250	CMCD	925
		XEA			250	CMCF	890
<b>VERA CRUZ</b>					50	CMCH	1405
Jalapa Y-14	100	XETC	1000		250	CMCJ	1180
Vera Cruz, Ver. Z-14	500	XETF	630		15	CMCM	1405
	100	XEU	1007		250	CMCN	1270
<b>YUCATAN</b>					1000	CMCQ	780
Merida, Yuc. X-19	10	XEFC	1050		150	CMCR	1325
	105	XEY	1000		150	CMCU	630
					150	CMCW	1065
					150	CMCX	1010
<b>WEST INDIES</b>					1000	CMCY	1325
<b>CUBA</b>					40	CMDB	1405
Caibarien W-25	250	CMHD	950		150	CMDD	588
Camaguey W-26	150	CMJE	1382		250	CMDE	925
	50	CMJF	1175		3150	CMK	730
	200	CMJG	930		250	CMQ	630
	50	CMJH	1050		1400	CMW	1185
	300	CMJK	790		500	CMX	890
	50	CMJL	960		30	CMGB	1205
	50	CMJN	1270		30	CMGC	820
	30	CMGE	1375		100	CMGF	987
Cardenas W-24	50	CMJH	1150		15	CMGH	1040
Ciego de Avila W-26	5	CMJI	1260		7.5	CMJI	1310
	15	CMJO	1110		20	CMAJ	1249
	40	CMHJ	1125		30	CMHI	1030
Cienfuegos W-25	20	CMHL	1290		150	CMKC	1034
Colon W-24	100	CMGA	834		250	CMHC	790
Cruces	15	CMHK	1225				
				<b>Matanzas W-24</b>			
				Moron			
				Pinar del Rio W-22			
				Santa Clara W-25			
				Santiago X-28			
				Tuinucu W-25 rc			
				<b>DOMINICAN REPUBLIC</b>			
				Santo Domingo X-31	1000	HIX	630
				<b>HAITI</b>			
				Port au Prince X-30	1000	HHK	920
				<b>SOUTH AMERICA</b>			
				Caracas Venezuela	DD-31	CVIBG	960
				Bocota Colombia		CVJN	690

## 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 INDEX BY CALL LETTERS AND WEDNESDAY TIME KBTM

<p><b>CFAC</b> 690 Calgary, Alta., <i>MST</i>. 7:30-9 a.m.; 11:30 a.m.-1:30 p.m.; 4:30-6 p.m.</p> <p><b>CFBO</b> 890 St. John, N. B.</p> <p><b>CFCA</b> 1120 Toronto, Ont., <i>EST</i>. 7:15-noon; 1-11 p.m.</p> <p><b>CFCF</b> 1030 Montreal, Que., <i>EST</i>. 8 a.m.-mid.</p> <p><b>CFCH</b> 830 North Bay, Ont., <i>EST</i>. 8:30 a.m.; noon-1 p.m.; 5-8 p.m.</p> <p><b>CFCN</b> 895 Calgary, Alta., <i>MST</i>. 7:30 a.m.-1:30 p.m.; 5-11 p.m.</p> <p><b>CFCO</b> 1210 Chatham, Ont., <i>EST</i>. 7:15-7:30 p.m.; 8:15-8:30 p.m.</p> <p><b>CFCT</b> 830 Victoria, B. C., <i>PST</i>. 8 a.m.-12:30 p.m.; 6-8 p.m.; 10-11 p.m.</p> <p><b>CFCY</b> 580 Charlottetown, P. E. I., <i>AST</i>. 11:30 a.m.-noon; 4:30-8 p.m.</p> <p><b>CFJC</b> 1120 Kamloops, B. C., <i>PST</i>. 7:30-9:30 a.m.; noon-2 p.m.; 5:30-7 p.m.</p> <p><b>CFLC</b> 915 Prescott, Ont., <i>EST</i>. 8-10 a.m.; noon-2 p.m.; 5-7:30 p.m.</p> <p><b>CFNB</b> 1215 Fredericton, N. B., <i>AST</i>. 8:30-9:30 a.m.; 12:30-2 p.m.</p> <p><b>CFQC</b> 810 Saskatoon, Sask.</p> <p><b>CFRB</b> 890 Toronto, Ont., <i>EST</i>. 8 a.m.-mid.</p> <p><b>CFRC</b> 830 Kingston, Ont.</p> <p><b>CHCH</b> 1200 Montreal, Que.</p> <p><b>CHCK</b> 950 Charlottetown, P. E. I. Noon-2 p.m.; 5-7:30 p.m., <i>AST</i>.</p> <p><b>CHGS</b> 1120 Summerside, P. E. I., 10 a.m.-2 p.m.; 4-8 p.m., <i>AST</i>.</p> <p><b>CHLS</b> 730 Vancouver, B. C., <i>PST</i>. 8:50-9:30 p.m.</p> <p><b>CHMA</b> 580 Edmonton, Alta., <i>MST</i>. Silent.</p> <p><b>CHML</b> 880 Hamilton, Ont., <i>EST</i>. 3-4 p.m. <i>EST</i></p> <p><b>CHNC</b> 640 Toronto, Ont. 7:15-7:30 p.m., 8 a.m.-2 p.m.; 6 p.m.-mid.</p> <p><b>CHNS</b> 815 Halifax, N. S., <i>AST</i>. 8 a.m.-2 p.m.; 5 p.m.-mid.</p> <p><b>CHRC</b> 645 Quebec, Que., <i>EST</i>. 9 a.m.-2 p.m.; 5 p.m.-mid.</p> <p><b>CHWC</b> 950 Regina, Sask., <i>MST</i>. 7-9 a.m.; 10-11 a.m.; noon-1 p.m.; 3:30-mid.</p> <p><b>CHWK</b> 665 Chilliwack, B. C., <i>PST</i>. Noon-8 p.m.</p> <p><b>CHYC</b> 730 Montreal, Que.</p> <p><b>CJCA</b> 745 Edmonton, Alta., <i>MST</i>. 7:45-9:15 a.m.; noon-1 p.m.; 3:30-4:30 p.m.; 5-7:30 p.m.</p> <p><b>CJCB</b> 880 Sydney, N. S., <i>AST</i>. 10 a.m.-2 p.m.; 6-10 p.m.</p> <p><b>CJJC</b> 690 Calgary, Alta., <i>MST</i>. 9-11:30 a.m.; 1:45-3 p.m.; 6-7:30 p.m.</p> <p><b>CJQC</b> 595 London, Ont., <i>EST</i>. 8:45 a.m.-1:15 p.m.; 5:30-10 p.m.</p> <p><b>CJGX</b> 630 Yorkton, Sask., <i>CST</i>. 8:30-9:15 a.m.; 10:30-10:45 a.m.; 12:40-1:15 p.m.; 6:45-8 p.m.</p> <p><b>CJOC</b> 1120 Lethbridge, Alta., <i>MST</i>. 8:45-10 a.m.; noon-1:15 p.m.; 3-4 p.m.; 6-8 p.m.</p> <p><b>CJOR</b> 1210 Vancouver, B. C., <i>PST</i>. 7:30 a.m.-1 p.m.; 4-10 p.m.</p> <p><b>CJRM</b> 665 Moose Jaw, Sask., <i>MST</i>. 8-10:30 a.m.; noon-2:30 p.m.; 7:30-10:30 p.m.</p> <p><b>CJRW</b> 665 Fleming, Sask., <i>MST</i>. Noon-1 p.m.; 4:30-7:30 p.m.</p> <p><b>CKAC</b> 730 Montreal, Que., <i>EST</i>. 7:30 a.m.-mid.</p> <p><b>CKCD</b> 730 Vancouver, B. C.</p>	<p><b>CKCI</b> 645 Quebec, Que., <i>EST</i>. 1-1:30 p.m.</p> <p><b>CKCK</b> 960 Regina, Sask., <i>MST</i>. 9-10 a.m.; 11 a.m.-noon; 1-3:30 p.m.</p> <p><b>CKCL</b> 580 Toronto, Ont., <i>EST</i>. 8:30 a.m.-mid.</p> <p><b>CKCO</b> 890 Ottawa, Ont.</p> <p><b>CKCR</b> 645 Waterloo, Ont., <i>EST</i>. 10 a.m.-1:15 p.m.; 4-10 p.m.</p> <p><b>CKCV</b> 880 Quebec, Que., <i>EST</i>. Noon-2 p.m.; 6:30-11 p.m.</p> <p><b>CKFC</b> 730 Vancouver, B. C. Silent.</p> <p><b>CKGW</b> 840 Toronto, Ont., <i>EST</i>. 6:45 a.m.-mid.</p> <p><b>CKIC</b> 1010 Wolfville, N. S., <i>AST</i>. 7:30-8:30 a.m.; 12:15-1:15 p.m.; 6-7 p.m.</p> <p><b>CKLC</b> 840 Red Deer, Alta., <i>MST</i>. 8 a.m.-7:45 p.m.</p> <p><b>CKMC</b> 1210 Cobalt, Ont., <i>EST</i>. 7-8 p.m.</p> <p><b>CKMO</b> 730 Vancouver, B. C.</p> <p><b>CKNC</b> 960 Toronto, Ont., <i>EST</i>. 8 a.m.-12:30 p.m.; 2:30-11:15 p.m.</p> <p><b>CKOC</b> 635 Hamilton, Ont., <i>EST</i>. 8 a.m.-10:30 p.m.</p> <p><b>CKOK</b> 540 Windsor, Ont., <i>EST</i>. 7:30 a.m.-mid.</p> <p><b>CKOV</b> 1200 Kelowna, B. C., <i>PST</i>. 8-9 a.m.; 11:30 a.m.-2 p.m.; 4:30-7:30 p.m.</p> <p><b>CKPC</b> 880 Preston, Ont., <i>EST</i>. 10 a.m.-2 p.m.</p> <p><b>CKPR</b> 890 Ft. William, Ont., <i>EST</i>. 9 a.m.-2 p.m.; 5:30-11 p.m.</p> <p><b>CKTB</b> 635 St. Catharines, Ont., 1:30-5 p.m.; 6:30-8 p.m., <i>EST</i>.</p> <p><b>CKUA</b> 580 Edmonton, Alta., <i>MST</i>. 4-9 p.m.</p> <p><b>CKWX</b> 730 Vancouver, B. C., <i>PST</i>. 8-8:30 a.m.; 10:30 a.m.-noon; 4:30-8:30 p.m.; 9:30-mid.</p> <p><b>CKX</b> 930 Brandon, Man., <i>CST</i>. 8:30-9:30 p.m.; 8-10 p.m.</p> <p><b>CKY</b> 780 Winnipeg, Man., <i>CST</i>. 8:30 a.m.-2 p.m.; 3:30-11:45 p.m.</p> <p><b>CMAB</b> 1249 Pinar del Rio, Cuba.</p> <p><b>CMAF</b> 680 Havana, Cuba, <i>EST</i>. 5-11:30 p.m.</p> <p><b>CMAY</b> 965 Havana, Cuba.</p> <p><b>CMBC</b> 965 Havana, Cuba, <i>EST</i>. 4 a.m.-mid.</p> <p><b>CMBD</b> 1270 Havana, Cuba.</p> <p><b>CMBF</b> 1365 Havana, Cuba.</p> <p><b>CMBG</b> 1070 Havana, Cuba.</p> <p><b>CMBJ</b> 1140 Havana, Cuba.</p> <p><b>CMBK</b> 1485 Havana, Cuba.</p> <p><b>CMBL</b> 1445 Havana, Cuba, <i>EST</i>. 7-9 p.m.</p> <p><b>CMBN</b> 1445 Havana, Cuba, <i>EST</i>. 2-3 p.m.; 9:15-11 p.m.</p> <p><b>CMBR</b> 1485 Havana, Cuba.</p> <p><b>CMBS</b> 780 Havana, Cuba.</p> <p><b>CMBW</b> 1140 Havana, Cuba.</p> <p><b>CMBY</b> 1230 Havana, Cuba.</p> <p><b>CMBZ</b> 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.</p> <p><b>CMC</b> 840 Havana, Cuba.</p> <p><b>CMCA</b> 1230 Havana, Cuba.</p> <p><b>CMCB</b> 1070 Havana, Cuba, <i>EST</i>. 11:30 a.m.-1 p.m.; 5-6 p.m.; 7:30-10 p.m.</p> <p><b>CMCD</b> 925 Havana, Cuba, <i>EST</i>. Noon-3 p.m.; 8 p.m.-mid.</p> <p><b>CMCF</b> 890 Havana, Cuba, <i>EST</i>. 5-8 p.m.</p>	<p><b>CMCH</b> 1405 Havana, Cuba, <i>EST</i>. 5-9 p.m.</p> <p><b>CMCJ</b> 1180 Havana, Cuba.</p> <p><b>CMCM</b> 1405 Havana, Cuba.</p> <p><b>CMCN</b> 1270 Havana, Cuba.</p> <p><b>CMCQ</b> 780 Havana, Cuba.</p> <p><b>CMCR</b> 1325 Havana, Cuba.</p> <p><b>CMCU</b> 630 Havana, Cuba.</p> <p><b>CMCW</b> 1365 Havana, Cuba, <i>EST</i>. 1-3 a.m.; 11 a.m.-6 p.m.</p> <p><b>CMCX</b> 1410 Havana, Cuba.</p> <p><b>CMCY</b> 1325 Havana, Cuba, <i>EST</i>. 8:30-10:30 p.m.</p> <p><b>CMDD</b> 585 Havana, Cuba.</p> <p><b>CMDE</b> 925 Havana, Cuba.</p> <p><b>CMGA</b> 834 Colon, Cuba.</p> <p><b>CMGB</b> 1205 Matanzas, Cuba.</p> <p><b>CMGC</b> 820 Matanzas, Cuba.</p> <p><b>CMGE</b> 1375 Matanzas, Cuba.</p> <p><b>CMGF</b> 987 Matanzas, Cuba.</p> <p><b>CMGH</b> 1040 Matanzas, Cuba.</p> <p><b>CMHG</b> 790 Tuinucu, Cuba.</p> <p><b>CMHD</b> 950 Cabierien, Cuba.</p> <p><b>CMHI</b> 1030 Santa Clara, Cuba, <i>EST</i>. 10 a.m.-1 p.m.; 8-10 p.m.</p> <p><b>CMHJ</b> 1125 Cienfuegos, Cuba, <i>EST</i>. 11 a.m.-1 p.m.; 7-9 p.m.</p> <p><b>CMHK</b> 1225 Cienfuegos, Cuba.</p> <p><b>CMHL</b> 1225 Cienfuegos, Cuba.</p> <p><b>CMJC</b> 1382 Camaguey, Cuba.</p> <p><b>CMJE</b> 1175 Camaguey, Cuba.</p> <p><b>CMJF</b> 930 Camaguey, Cuba.</p> <p><b>CMJG</b> 1050 Camaguey, Cuba.</p> <p><b>CMJH</b> 1150 Ciego de Avila, Cuba. 10 a.m.-2 p.m.; 5-10 p.m., <i>EST</i>.</p> <p><b>CMJI</b> 1260 Ciego de Avila, Cuba. 10 a.m.-1:30 p.m.; 6-10, <i>EST</i>.</p> <p><b>CMJK</b> 790 Camaguey, Cuba.</p> <p><b>CMJL</b> 950 Camaguey, Cuba.</p> <p><b>CMJM</b> 1270 Camaguey, Cuba.</p> <p><b>CMJN</b> 1110 Ciego de Avila, Cuba.</p> <p><b>CMJP</b> 1310 Moron, Cuba.</p> <p><b>CMK</b> 730 Havana, Cuba, <i>EST</i>. 10 a.m.-noon; 6 p.m.-mid.</p> <p><b>CMKC</b> 1034 Santiago, Cuba.</p> <p><b>CMKJ</b> 1300 Guantanamo, Cuba.</p> <p><b>CMKQ</b> 630 Havana, Cuba.</p> <p><b>CMW</b> 1185 Havana, Cuba, <i>EST</i>. 7:30 a.m.-11:30 p.m.</p> <p><b>CMX</b> 890 Havana, Cuba, <i>EST</i>. 11 a.m.-2 p.m.; 7-11 p.m.</p> <p><b>CNRA</b> 630 Moncton, N. B., <i>AST</i>. 12:30-2 p.m.; 6:15-7:15 p.m.; 9-10 p.m.</p> <p><b>CNRH</b> 815 Halifax, N. S., <i>AST</i>. Silent.</p> <p><b>CNRO</b> 600 Ottawa, Ont., <i>EST</i>. Noon-1 p.m.; 6-11 p.m.</p> <p><b>CNRV</b> 1030 Vancouver, B. C., <i>PST</i>. 2-3:30 p.m.; 5:30-8:30 p.m.</p> <p><b>CPRY</b> 840 Toronto, Ont., <i>EST</i>. 1-1:30 p.m.; 7:45-8:30 p.m.; 10-10:30 p.m.</p> <p><b>HHK</b> 920 Port-au-Prince, Haiti.</p> <p><b>HIX</b> 630 Santo Domingo, <i>EST</i>. Silent.</p> <p><b>KABC</b> 1420 San Antonio, Tex., <i>CST</i>. 6:45 a.m.-1:30 p.m.; 3:30-11:30 p.m.</p> <p><b>KALE</b> 1300 Portland, Ore., <i>PST</i>. 7-10:30 a.m.; 2:30-5; 6-7 p.m.</p> <p><b>KARK</b> 890 Little Rock, Ark., <i>CST</i>. 7:30 a.m.-9 p.m.</p> <p><b>KASA</b> 1210 Elk City, Okla., <i>CST</i>. 7 a.m.-9 p.m.</p> <p><b>KBPS</b> 1420 Portland, Ore., <i>PST</i>. 11 a.m.-12:30 p.m.; 3-5 p.m.</p> <p><b>KBTM</b> 1200 Paragould, Ark., <i>CST</i>. 7:30 a.m.-1:30 p.m.; 3:15-6:15 p.m.</p>
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<b>KCMC</b> 1420 Texarkana, Ark., <i>CST</i> . 6:45 a.m.-2 p.m.; 4-9 p.m.	<b>KFMX</b> 1250 Northfield, Minn., <i>CST</i> . 8-9 p.m.	<b>KGCR</b> 1210 Watertown, S. D., <i>CST</i> . 6:30 a.m.-3 p.m.; 5-9 p.m.
<b>KCRC</b> 1370 Enid, Okla., <i>CST</i> . 10 a.m.-2 p.m.; 3:45-7:45 p.m.	<b>KFNF</b> 890 Shenandoah, Iowa, <i>CST</i> . 5-8 a.m.; 9-10 a.m.; 12:15-5 p.m.; 6-8 p.m.; 9-10 p.m.	<b>KGCU</b> 1240 Mandan, N. D., <i>MST</i> . Noon-5 p.m.; 6:45-9 p.m.
<b>KCRJ</b> 1310 Jerome, Ariz., <i>MST</i> . 7:30-9:30 a.m.; noon-1 p.m.; 3:45-6 p.m.	<b>KFOR</b> 1210 Lincoln, Nebr., <i>CST</i> . 7 a.m.-10 p.m.	<b>KGCX</b> 1310 Wolf Point, Mont., <i>MST</i> . 6:30-9 a.m.; 11:30-3; 6-9 p.m.
<b>KDB</b> 1500 Santa Barbara, Calif., 8 a.m.-mid., <i>PST</i> .	<b>KFOX</b> 1250 Long Beach, Calif., <i>PST</i> . 6 a.m.-mid.	<b>KGDA</b> 1370 Mitchell, S. D., <i>CST</i> . 8 a.m.-4:30 p.m.; 5:30-9 p.m.
<b>KDFN</b> 1440 Casper, Wyo., <i>MST</i> . 9 a.m.-9 p.m.	<b>KFPL</b> 1310 Dublin, Texas, <i>CST</i> . 6 a.m.-10:30 p.m.	<b>KGDE</b> 1200 Fergus Falls, Minn. 7 a.m.-9 p.m., <i>CST</i> .
<b>KDKA</b> 980 Pittsburgh, Pa., <i>EST</i> . 7 a.m.-12:30 a.m. next day.	<b>KFPM</b> 1310 Greenville, Texas, <i>CST</i> . 7:45-9 a.m.; 1-2:45 p.m.; 6-9 p.m.	<b>KGDM</b> 1100 Stockton, Calif., <i>PST</i> . 6 a.m.-sunset.
<b>KDLR</b> 1210 Devils Lake, N. D., <i>CST</i> . 7 a.m.-3 p.m.; 5:30-9:30 p.m.	<b>KFPW</b> 1210 Fort Smith, Ark., <i>CST</i> . 6:30 a.m.-2 p.m.; 5-10:30 p.m.	<b>KGDY</b> 1200 Huron, S. D., <i>CST</i> . 7 a.m.-2 p.m.; 4-9 p.m.
<b>KDYL</b> 1290 Salt Lake City, Utah. 6:30 a.m.-1 a.m., <i>MST</i> .	<b>KFPY</b> 1340 Spokane, Wash., <i>PST</i> . 7 a.m.-12:30 a.m. next day.	<b>KGEK</b> 1200 Yuma, Colo., <i>MST</i> . 11 a.m.-1:30 p.m.
<b>KECA</b> 1430 Los Angeles, Calif., <i>PST</i> . 9 a.m.-11 p.m.	<b>KFQD</b> 1230 Anchorage, Alaska. 6 p.m.-mid. (Zone 6)	<b>KGER</b> 1360 Long Beach, Calif., <i>PST</i> . 6 a.m.-mid.
<b>KELW</b> 780 Burbank, Calif., <i>PST</i> . 10 a.m.-1 p.m.; 5-8 p.m.	<b>KFRG</b> 610 San Francisco, Calif. 7 a.m.-1 a.m., <i>PST</i> .	<b>KGEW</b> 1200 Ft. Morgan, Colo., <i>MST</i> . 6:30-9:30 p.m.
<b>KERN</b> 1200 Bakersfield, Calif., <i>PST</i> . 7:30 a.m.-mid.	<b>KFRU</b> 630 Columbia, Mo., <i>CST</i> . 6:30-9 a.m.; 4-7:30 p.m.; 9-mid.	<b>KGEZ</b> 1310 Kalispell, Mont., <i>MST</i> . 8 a.m.-9 p.m.
<b>KEX</b> 1180 Portland, Ore., <i>PST</i> . 7 a.m.-noon; 1 p.m.-mid.	<b>KFSD</b> 600 San Diego, Calif., <i>PST</i> . 7:30 a.m.-mid.	<b>KGFF</b> 1420 Shawnee, Okla., <i>CST</i> . 7:30-9 a.m.
<b>KFAB</b> 770 Lincoln, Neb., <i>CST</i> . 6 a.m.-10:30 p.m.	<b>KFSG</b> 1120 Los Angeles, Calif., <i>PST</i> . 1:30-3 p.m.; 7:30-mid.	<b>KGFG</b> 1370 Oklahoma City, Okla. 7:15-10 a.m.; 3-3:45 p.m.; 7:45-10 p.m., <i>CST</i> .
<b>KFAC</b> 1300 Los Angeles, Calif., <i>PST</i> . 7 a.m.-mid.	<b>KFUL</b> 1290 Galveston, Texas, <i>CST</i> . 8-9:30 a.m.; 11 a.m.-1 p.m.; 2:30-4 p.m.; 5:30-7 p.m.; 10:15 p.m.-mid.	<b>KGFI</b> 1500 Corpus Christi, Texas. 7 a.m.-3 p.m.; 6-10 p.m., <i>CST</i> .
<b>KFBB</b> 1280 Great Falls, Mont., <i>MST</i> . 8 a.m.-3 p.m.; 5-10 p.m.	<b>KFVJ</b> 1000 Los Angeles, Calif., <i>PST</i> . 6 a.m.-6:45 p.m.; 10 p.m.-mid.	<b>KGFJ</b> 1200 Los Angeles, Calif. 24 hours daily.
<b>KFBI</b> 1050 Abilene, Kans., <i>CST</i> . 5 a.m.-9 p.m.	<b>KFVY</b> 1210 Cape Girardeau, Mo. 9 a.m.-noon; 4-8:30 p.m., <i>PST</i> .	<b>KGFK</b> 1500 Moorhead, Minn., <i>CST</i> . 8 a.m.-9 p.m.
<b>KFBK</b> 1310 Sacramento, Calif., <i>PST</i> . 7 a.m.-11 p.m.	<b>KFWB</b> 950 Los Angeles, Calif., <i>PST</i> . 7:30 a.m.-mid.	<b>KGFL</b> 1370 Santa Fe, N. M., <i>MST</i> . 9-10 a.m.; 11 a.m.-3 p.m.; 4-5:30 p.m.; 7:30-9.
<b>KFBL</b> 1370 Everett, Wash., <i>PST</i> . 8:30 a.m.-noon; 3-6 p.m.; 3-9 a.m.	<b>KFWF</b> 1200 St. Louis, Mo., <i>CST</i> . Silent.	<b>KGFV</b> 1310 Kearney, Neb., <i>CST</i> . 7:30 a.m.-1:30 p.m.; 5-10:30 p.m.
<b>KFDM</b> 650 Beaumont, Tex., <i>CST</i> . 7 a.m.-2 p.m.; 4:30-10:30 p.m.	<b>KFWI</b> 830 San Francisco, Calif. 7-8 a.m.; 9 a.m.-1 p.m.; 6-7:30 p.m.; 9:30-1 a.m., <i>PST</i> .	<b>KGFY</b> 1010 Coffeyville, Kans., <i>CST</i> . 7:30 a.m.-2 p.m.; 5-10:30 p.m.
<b>KFDY</b> 650 Brookings, S. D., <i>CST</i> . 12:30-2 p.m.	<b>KFXD</b> 1200 Nampa, Idaho, <i>MST</i> . 9 a.m.-9 p.m.	<b>KGGM</b> 1230 Albuquerque, N. M. 8 a.m.-2 p.m.; 4-10 p.m., <i>MST</i> .
<b>KFEL</b> 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.	<b>KFXE</b> 920 Denver, Colo., <i>MST</i> . 8:30-10 a.m.; 12:30-3; 4:30-6; 7:30-mid.	<b>KQHJ</b> 1320 Pueblo, Colo., <i>MST</i> . 7 a.m.-1 p.m.; 4-10 p.m.
<b>KFEQ</b> 650 St. Joseph, Mo., <i>CST</i> . 6 a.m.-7:45 p.m.	<b>KFXJ</b> 1310 Grand Jet, Colo., <i>MST</i> . 8 a.m.-2 p.m.; 6-9 p.m.	<b>KGHI</b> 1200 Little Rock, Ark., <i>CST</i> . 8:30 a.m.-1:30 p.m.; 5-9; mid-3 a.m.
<b>KFGQ</b> 1310 Boone, Iowa, <i>CST</i> . 6-7:30 a.m.; 1:30-2:30 p.m.	<b>KFXM</b> 1210 San Bernardino, Calif. 7 a.m.-7 p.m., <i>PST</i> .	<b>KGHL</b> 950 Billings, Mont., <i>MST</i> . 7:30 a.m.-4 p.m.; 5:30-11.
<b>KFH</b> 1300 Wichita, Kans., <i>CST</i> . 7-8:30 a.m.; 9-11 a.m.; 11:30 a.m.-2 p.m.; 3-6; 7-9; 10-11 p.m.	<b>KFXR</b> 1310 Oklahoma City, Okla. 7:30 a.m.-2 p.m.; 4-10, <i>CST</i> .	<b>KGIR</b> 1360 Butte, Mont., <i>MST</i> . 7 a.m.-mid.
<b>KFI</b> 640 Los Angeles, Calif., <i>PST</i> . 6:30 a.m.-mid.	<b>KFYD</b> 1310 Lubbock, Texas.	<b>KGIW</b> 1420 Trinidad, Colo., <i>MST</i> . 6-8 a.m.; 10-2 p.m.; 5-8 p.m.
<b>KFIO</b> 1120 Spokane, Wash., <i>PST</i> . 6 a.m.-sunset.	<b>KFYR</b> 550 Bismarck, N. D., <i>CST</i> . 6:30 a.m.-12:30 p.m.; 2-11 p.m.	<b>KGIX</b> 1420 Las Vegas, Nev., <i>PST</i> . 6-9 a.m.; noon-3 p.m.; 6-9 p.m.
<b>KFIZ</b> 1420 Fond du Lac, Wis., <i>CST</i> . 10 a.m.-1 p.m.; 4-10 p.m.	<b>KGA</b> 1470 Spokane, Wash., <i>PST</i> . 6 a.m.-mid.	<b>KGIZ</b> 1500 Grant City, Mo., <i>CST</i> . 7-11 a.m.; noon-5 p.m.; 6-9 p.m.
<b>KFJB</b> 1200 Marshalltown, Iowa. 6-9 a.m.; noon-3 p.m.; 6-9 p.m.	<b>KGAR</b> 1370 Tucson, Ariz., <i>MST</i> . 7 a.m.-1:30 p.m.; 4-11.	<b>KGKB</b> 1500 Tyler, Texas, <i>CST</i> . 7 a.m.-2 p.m.; 4-10 p.m.
<b>KFJI</b> 1210 Klamath Falls, Ore. 7:30 a.m.-9 p.m., <i>PST</i> .	<b>KGB</b> 1330 San Diego, Calif., <i>PST</i> . 7 a.m.-mid.	<b>KGKL</b> 1370 San Angelo, Texas, <i>CST</i> . 8 a.m.-9:30 p.m.
<b>KFJM</b> 1370 Grand Forks, N. D. 7 a.m.-9 p.m., <i>CST</i> .	<b>KGBU</b> 900 Ketchikan, Alaska. (Zone 8), 10 a.m.-3 p.m.; 5-7; 10 p.m.-3 a.m.	<b>KKKO</b> 570 Wichita Falls, Texas. 12:00 Lewiston, Idaho.
<b>KFJR</b> 1300 Portland, Ore., <i>PST</i> . 10:30 a.m.-2:30 p.m.; 5-6 p.m.; 7-mid.	<b>KGBX</b> 1310 Springfield, Mo., <i>CST</i> . 6:30-9:30 a.m.; 11 a.m.-2 p.m.; 4-10 p.m.	<b>KKKY</b> 1600 Scottsbluff, Neb., <i>MST</i> . 6:30 a.m.-2 p.m.; 4:30-9.
<b>KFJZ</b> 1370 Fort Worth, Texas, <i>CST</i> . 7 a.m.-11 p.m.	<b>KGBZ</b> 930 York, Neb., <i>CST</i> . 7:30-9:30 a.m.; 11 a.m.-12:30 p.m.; 2-3:30 p.m.; 5-6:30 p.m.; 8:30-10 p.m.	<b>KGMB</b> 1320 Honolulu, Hawaii. 7-9 a.m.; 10:40 a.m.-11 p.m. (Zone 5)
<b>KFKA</b> 880 Greeley, Colo., <i>MST</i> . 6-7:30 a.m.; 9 a.m.-2:30 p.m.; 6-7:30 p.m.; 9-11 p.m.	<b>KGCA</b> 1270 Decorah, Iowa, <i>CST</i> . 8:30-9:45 a.m.; 10:45-11:30 a.m.; 12:30-2:30.	<b>KGNF</b> 1430 North Platte, Neb. 6 a.m.-sunset, <i>MST</i> .
<b>KFKU</b> 1220 Lawrence, Kans., <i>CST</i> . 2:30-3 p.m.; 6-6:30 p.m.		<b>KGNO</b> 1210 Dodge City, Kans. 7:30 a.m.-3:30 p.m.; 5-9, <i>MST</i> .
<b>KFKX</b> 1020 Chicago, Ill.		<b>KGO</b> 780 San Francisco, Calif. 7 a.m.-12:30 a.m., <i>PST</i> .
<b>KFLV</b> 1410 Rockford, Ill., <i>CST</i> . 10 a.m.-12:30 p.m.; 3-6 p.m.; 8-10 p.m.		
<b>KFLX</b> 1370 Galveston, Texas.		

<b>KGRS</b> 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.	<b>KNX</b> 1050 Hollywood, Calif., <i>PST</i> . 6:30 a.m.-1 a.m. next day.	<b>KSEI</b> 890 Pocatello, Idaho, <i>MST</i> . 8 a.m.-11 p.m.
<b>KGU</b> 750 Honolulu, Hawaii. 6:15-10:30 a.m.; noon-1; 4:45- 11:30 p.m. (Zone 5)	<b>KOA</b> 830 Denver, Colo., <i>MST</i> . 7 a.m.-mid.	<b>KSL</b> 1130 Salt Lake City, Utah. 7 a.m.-mid., <i>MST</i> .
<b>KGVO</b> 1200 Missoula, Mont., <i>MST</i> . 6 a.m.-mid.	<b>KOAC</b> 550 Corvallis, Ore., <i>PST</i> . 6:30 a.m.-4 p.m.; 6-8:30 p.m.	<b>KSO</b> 1380 Clarinda, Iowa.
<b>KGW</b> 620 Portland, Ore., <i>PST</i> . 6:30 a.m.-mid.	<b>KOB</b> 1180 Albuquerque, N. M. 7 a.m.-9 p.m., <i>MST</i> .	<b>KSOO</b> 1110 Sioux Falls, S. D., <i>CST</i> . 6 a.m.-8 p.m.
<b>KGY</b> 1210 Olympia, Wash., <i>PST</i> . 6 p.m.-mid.	<b>KOCW</b> 1400 Chickasha, Okla.	<b>KSTP</b> 1460 St. Paul, Minn., <i>CST</i> . 6:30 a.m.-12:30 a.m. next day.
<b>KHJ</b> 900 Los Angeles, Calif., <i>PST</i> . 7 a.m.-1 a.m. next day.	<b>KOH</b> 1380 Reno, Nev., <i>PST</i> . 8 a.m.-9 p.m.	<b>KTAB</b> 560 San Francisco, Calif. 6:45 a.m.-1 a.m., <i>PST</i> .
<b>KHQ</b> 550 Spokane, Wash., <i>PST</i> . 7 a.m.-mid.	<b>KOIL</b> 1260 Council Bluffs, Ia., <i>CST</i> . 6 a.m.-1 a.m. next day.	<b>KTAR</b> 620 Phoenix, Ariz., <i>MST</i> . 7 a.m.-11:15 p.m.
<b>KICA</b> 1370 Clovis, N. M.	<b>KOIN</b> 940 Portland, Ore., <i>PST</i> . 6 a.m.-1 a.m. next day.	<b>KTAT</b> 1240 Ft. Worth, Texas. 7-9 a.m.; noon-1:30 p.m.; 4-7 p.m.; 9 p.m.
<b>KICK</b> 1420 Red Oak, Iowa. Silent.	<b>KOL</b> 1270 Seattle, Wash., <i>PST</i> . 6:45 a.m.-mid.	<b>KTBS</b> 1450 Shreveport, La., <i>CST</i> . 6 a.m.-mid.
<b>KID</b> 1320 Idaho Falls, Idaho, <i>MST</i> . 9 a.m.-mid.	<b>KOMA</b> 1480 Oklahoma City, Okla. 7 a.m.-11 p.m., <i>CST</i> .	<b>KTFI</b> 1240 Twin Falls, Idaho, <i>MST</i> . 6:30 a.m.-11 p.m.
<b>KIDO</b> 1350 Boise, Idaho, <i>MST</i> . 7 a.m.-9:30 p.m.	<b>KOMO</b> 920 Seattle, Wash., <i>PST</i> . 6:55 a.m.-12:30 a.m. next day.	<b>KTHS</b> 1040 Hot Springs, Ark., <i>CST</i> . 9-10 a.m.; 11 a.m.-12:30 p.m.; 4:30-5:30 p.m.; 6:45-7:30; 8:30-9:30; 10:30-11:30 p.m.
<b>KIDW</b> 1420 Lamar, Colo., <i>MST</i> . 6-8 a.m.; 2-6 p.m.; 8-10.	<b>KONO</b> 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.	<b>KTM</b> 780 Los Angeles, Calif., <i>PST</i> . 6-10 a.m.; 1-5 p.m.; 8 p.m.- 4 a.m. next day.
<b>KIEM</b> 1210 Eureka, Calif., <i>PST</i> .	<b>KOOS</b> 1370 Marshfield, Ore., <i>PST</i> . 9 a.m.-9 p.m.	<b>KTRH</b> 1120 Houston, Texas, <i>CST</i> . 6:30-11 a.m.; noon-11:30 p.m.
<b>KIEV</b> 850 Glendale, Calif., <i>PST</i> .	<b>KORE</b> 1420 Eugene, Ore., <i>PST</i> . 7:45 a.m.-8:30 p.m.	<b>KTSA</b> 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.
<b>KIT</b> 1310 Yakima, Wash., <i>PST</i> . 7 a.m.-11 p.m.	<b>KOY</b> 1390 Phoenix, Ariz., <i>MST</i> . 7 a.m.-10 p.m.	<b>KTSM</b> 1210 El Paso, Texas.
<b>KJBS</b> 1070 San Francisco, Calif. Mid. to local sunset, <i>PST</i> .	<b>KPCB</b> 650 Seattle, Wash., <i>PST</i> . 5:30 a.m.-8 p.m.; 10 p.m.-4 a.m.	<b>KTW</b> 1370 Seattle, Wash.
<b>KJR</b> 970 Seattle, Wash., <i>PST</i> . 7 a.m.-mid.	<b>KPJM</b> 1500 Prescott, Ariz., <i>MST</i> . 9 a.m.-9 p.m.	<b>KUJ</b> 1370 Walla Walla, Wash. 6 a.m.-sunset, <i>PST</i> .
<b>KLCN</b> 1290 Blytheville, Ark.	<b>KPO</b> 680 San Francisco, Calif. 7:30 a.m.-mid., <i>PST</i> .	<b>KUMA</b> 1420 Yuma, Ariz., <i>MST</i> . 7-9 a.m.; noon-3 p.m.; 6-9 p.m.
<b>KLO</b> 1400 Salt Lake City, Utah. 8:30 a.m.-10:30 p.m., <i>MST</i> .	<b>KPOF</b> 890 Denver, Colo., <i>MST</i> . 7:30-9 a.m.; 2:30-4:30 p.m.; 7:30-9 p.m.	<b>KUOA</b> 1390 Fayetteville, Ark., <i>CST</i> . 7-8 a.m.; 11 a.m.-1 p.m.; 5-6:30 p.m.
<b>KLPM</b> 1240 Minot, N. D., <i>CST</i> . 7 a.m.-1 p.m.; 6-7:45 p.m.; 10- 11:30 p.m.	<b>KPPC</b> 1210 Pasadena, Calif., <i>PST</i> . 7-9 p.m.	<b>KUSD</b> 890 Vermillion, S. D., <i>CST</i> . 8-9 p.m.
<b>KLRA</b> 1390 Little Rock, Ark., <i>CST</i> . 8-11 a.m.; 1-5 p.m.; 6:30-11 p.m.	<b>KPQ</b> 1500 Wenatchee, Wash., <i>PST</i> . 7 a.m.-10 p.m.	<b>KVI</b> 570 Tacoma, Wash., <i>PST</i> . 6:30 a.m.-mid.
<b>KLS</b> 1440 Oakland, Calif., <i>PST</i> . 8:30 a.m.-7:30 p.m.	<b>KPRC</b> 920 Houston, Texas, <i>CST</i> . 6:30 a.m.-mid.	<b>KVL</b> 1370 Seattle, Wash.
<b>KLX</b> 890 Oakland, Calif., <i>PST</i> . 7 a.m.-11 p.m.	<b>KQV</b> 1380 Pittsburgh, Pa., <i>EST</i> . 8:30 a.m.-1 p.m.; 2-11 p.m.	<b>KVOA</b> 1260 Tucson, Ariz. 6-9 a.m.; noon-3 p.m.; 6-9 p.m.
<b>KLZ</b> 560 Denver, Colo., <i>MST</i> . 6:30 a.m.-11:30 p.m.	<b>KQW</b> 1010 San Jose, Calif., <i>PST</i> . 6:45 a.m.-3 p.m.; 4:30-10 p.m.	<b>KVOO</b> 1140 Tulsa, Okla., <i>CST</i> . 7 a.m.-1:45 p.m.; 3-9 p.m.
<b>KMA</b> 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; 10-mid.	<b>KRE</b> 1370 Berkeley, Calif., <i>PST</i> . 6:30-9:30 a.m.; noon-3 p.m.; 6-9 p.m.	<b>KVOR</b> 1270 Colorado Springs, Colo. 7 a.m.-10 p.m., <i>MST</i> .
<b>KMAC</b> 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.	<b>KREG</b> 1500 Santa Ana, Calif., <i>PST</i> . 9 a.m.-11 p.m.	<b>KVOS</b> 1200 Bellingham, Wash.
<b>KMBC</b> 950 Kansas City, Mo., <i>CST</i> . 6:15 a.m.-mid.	<b>KRGV</b> 1260 Harlingen, Texas, <i>CST</i> . 7-9:30 a.m.; 12:30-3:30 p.m.; 6:30-9:30 p.m.	<b>KWCR</b> 1420 Cedar Rapids, Ia., <i>CST</i> . 6:30 a.m.-mid.
<b>KMED</b> 1310 Medford, Ore., <i>PST</i> . 8 a.m.-9:30 p.m.	<b>KRKD</b> 1120 Los Angeles, Calif., <i>PST</i> . 6 a.m.-1:30 p.m.; 3-7:30 p.m.	<b>KWEA</b> 1210 Shreveport, La.
<b>KMJ</b> 580 Fresno, Calif., <i>PST</i> . 7 a.m.-mid.	<b>KRLD</b> 1040 Dallas, Texas, <i>CST</i> . 6-7:15 a.m.; 7:45-9 a.m.; 10-11 a.m.; 12:30-4:30 p.m.; 5-5:30- 6:45; 7:30-8:30; 9:30-10:30.	<b>KWG</b> 1200 Stockton, Calif., <i>PST</i> 7 a.m.-mid.
<b>KMLB</b> 1200 Monroe, La., <i>CST</i> . 7 a.m.-10 p.m.	<b>KRMD</b> 1310 Shreveport, La., <i>CST</i> . 7 a.m.-1 p.m.; 5-8 p.m.	<b>KWJ</b> 1060 Portland, Ore.
<b>KMMJ</b> 740 Clay Center, Neb., <i>CST</i> . 5:45 a.m.-sunset.	<b>KROW</b> 930 Oakland, Calif., <i>PST</i> . 8-9 a.m.; 1-6 p.m.; 7:30-8:30.	<b>KWKJ</b> 1350 St. Louis, Mo., <i>CST</i> . 6:55 a.m.-12:15 a.m. next day.
<b>KMO</b> 1330 Tacoma, Wash., <i>PST</i> . 6:30 a.m.-11 p.m.	<b>KRSC</b> 1120 Seattle, Wash., <i>PST</i> . Sunrise to local sunset.	<b>KWKC</b> 1370 Kansas City, Mo.
<b>KMOX</b> 1090 St. Louis, Mo., <i>CST</i> . 6:45 a.m.-12:45 a.m. next day.	<b>KSAC</b> 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.	<b>KWKH</b> 850 Shreveport, La., <i>CST</i> . 8:30 p.m.-mid.
<b>KMPK</b> 710 Beverly Hills, Calif. 6:30 a.m.-5:15 p.m.; 8-1 a.m. <i>PST</i> .	<b>KSCJ</b> 1330 Sioux City, Iowa, <i>CST</i> . 6:30 a.m.-11 p.m.	<b>KWLC</b> 1270 Decatur, Iowa, <i>CST</i> . 6:45-8 a.m.; 10:30-9:30 p.m.; 11:30 a.m.-12:30 p.m.
<b>KMTR</b> 570 Hollywood, Calif., <i>PST</i> . 6:30 a.m.-mid.	<b>KSD</b> 550 St. Louis, Mo., <i>CST</i> . 7 a.m.-12:15 p.m.; 12:40-9:30; 10:30-11 p.m.	<b>KWSC</b> 1220 Pullman, Wash., <i>PST</i> . 6:45-8 a.m.; 10:30-9:30 p.m.
<b>KNOW</b> 1500 Austin, Texas, <i>CST</i> . 7:30 a.m.-1 p.m.; 5-11 p.m.		<b>KXGW</b> 1260 Brownsville, Texas.

**KXYZ INDEX BY CALL LETTERS AND WEDNESDAY TIME WEHC**

<b>KXYZ</b> 1440 Houston, Texas, <i>CST.</i> 7:10 a.m.; 11 a.m.-1:15 p.m.; 3:30-10:30 p.m.	<b>WBAX</b> 1210 Wilkes Barre, Pa., <i>EST.</i> 7:30 a.m.-noon.	<b>WCDA</b> 1350 New York City, <i>EST.</i> 9 a.m.-3 p.m.
<b>KYA</b> 1230 San Francisco, Calif. 7:30 a.m.-mid., <i>PST.</i>	<b>WBBC</b> 1400 Brooklyn, N. Y., <i>EST.</i> 9-10 p.m.	<b>WCFL</b> 970 Chicago, Ill., <i>CST.</i> 6 a.m.-mid.
<b>KYW</b> 1020 Chicago, Ill., <i>CST.</i> 7 a.m.-1 a.m. next day.	<b>WBBL</b> 1210 Richmond, Va., <i>EST.</i> Silent.	<b>WCGU</b> 1400 Brooklyn, N. Y., <i>EST.</i> 8 a.m.-11:15 a.m.; 7:30-9 p.m.
<b>KZRM</b> 618.5 Manila, P. I. 6:30-7:30 a.m.; 12:15-1:15; 3- 10:30 p.m.	<b>WBBM</b> 770 Chicago, Ill., <i>CST.</i> 6:45 a.m.-10 p.m.; 11:30 p.m.- 2 a.m.	<b>WCKY</b> 1490 Covington, Ky., <i>CST.</i> Mid.-mid.
<b>NAA</b> 690 Arlington, Va.	<b>WBBR</b> 1300 Brooklyn, N. Y., <i>EST.</i> 10 a.m.-noon; 6-8 p.m.	<b>WCLO</b> 1200 Janesville, Wis., <i>CST.</i> 7:30 a.m.-3:30 p.m.; 5-9 p.m.
<b>RUS</b> 664 Salvador.	<b>WBBZ</b> 1200 Ponca City, Okla., <i>CST.</i> 6 a.m.-10 p.m.	<b>WCLS</b> 1310 Joliet, Ill., <i>CST.</i> 11 a.m.-noon; 3-8 p.m.-10-mid.
<b>TGW</b> 570 Guatemala.	<b>WBCM</b> 1410 Bay City, Mich., <i>CST.</i> 8 a.m.-mid.	<b>WCMA</b> 1400 Culver, Ind., <i>CST.</i> 6-6:30 a.m.; 1:15-4:15 p.m.; 10:30-mid.
<b>TICR</b> 911 San Jose, C. R.	<b>WBEN</b> 900 Buffalo, N. Y., <i>EST.</i> 6:45 a.m.-mid.	<b>WCOA</b> 1340 Pensacola, Fla., <i>CST.</i> 9 a.m.-10:30 p.m.
<b>VAS</b> 685 Glace Bay, N. S., <i>AST.</i> 1-1:15 p.m.; mid.-12:15 a.m.	<b>WBOE</b> 1310 Marquette, Mich.	<b>WCOC</b> 880 Meridian, Miss., <i>CST.</i> 7:30 a.m.-2 p.m.; 5-11 p.m.
<b>VOAS</b> 810 St. Johns, N. F. 11 a.m.-12:30 p.m.; 4-5:30 p.m. (Zone 19).	<b>WBHS</b> 1200 Huntsville, Ala., <i>CST.</i> 8 a.m.-2 p.m.; 5-9:30 p.m.	<b>WCOD</b> 1200 Harrisburg, Pa., <i>EST.</i> 8-11 a.m.; 3-6 p.m.; 8-11 p.m.
<b>VOGT</b> 893 Wabana, N. F. Silent.	<b>WBIG</b> 1440 Greensboro, N. C., <i>EST.</i> 8 a.m.-3 p.m.; 5-11 p.m.	<b>WCRW</b> 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.
<b>VOGY</b> 918 St. Johns, N. F.	<b>WBMS</b> 1450 Hackensack, N. J., <i>EST.</i> 6-9 p.m.	<b>WCSC</b> 1360 Charleston, S. C., <i>EST.</i> 8 a.m.-3 p.m.; 6-11 p.m.
<b>VONA</b> 950 St. Johns, N. F. 12:30-2 p.m.; 6:30-8 p.m. (Zone 19)	<b>WBNX</b> 1350 New York City, <i>EST.</i> 4-6 p.m.	<b>WCSH</b> 940 Portland, Maine, <i>EST.</i> 7:45 a.m.-1 p.m.; 2-10:45.
<b>VONF</b> 1115 St. Johns, N. F. 1-2 p.m.; 6:30-8 p.m. (Zone 19)	<b>WBOQ</b> 860 New York City.	<b>WDAA</b> 1220 Tampa, Fla., <i>EST.</i> 8 a.m.-mid.
<b>VOWR</b> 750 St. Johns, N. F.	<b>WBOW</b> 1310 Terre Haute, Ind., <i>CST.</i> 7 a.m.-2 p.m.; 4-11 p.m.	<b>WDAF</b> 610 Kansas City, Mo., <i>CST.</i> 6:26 a.m.-mid.
<b>VOX</b> 690 Halifax, N. S.	<b>WBRC</b> 930 Birmingham, Ala., <i>CST.</i> 7 a.m.-11 p.m.	<b>WDAG</b> 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.
<b>VPN</b> 610 Nassau, B. I.	<b>WBRE</b> 1310 Wilkes Barre, Pa.	<b>WDAH</b> 1310 El Paso, Texas.
<b>WAAB</b> 1410 Boston, Mass., <i>EST.</i> 7:45 a.m.-mid.	<b>WBSO</b> 920 Babson Park, Mass., 7 a.m.-5 p.m., <i>EST.</i>	<b>WDAS</b> 1370 Philadelphia, Pa., <i>EST.</i> 9 a.m.-10:30 p.m.
<b>WAAF</b> 920 Chicago, Ill., <i>CST.</i> 6 a.m.-local sunset.	<b>WBT</b> 1080 Charlotte, N. C., <i>EST.</i> 7 a.m.-mid.	<b>WDAY</b> 940 Fargo, N. D., <i>CST.</i> 6 a.m.-11 p.m.
<b>WAAM</b> 1250 Newark, N. J., <i>EST.</i> 7-9 a.m.; 10 a.m.-noon; 2-4:30 p.m.; 9-mid.	<b>WBTM</b> 1370 Danville, Va., <i>EST.</i> 7:30 a.m.-1 p.m.; 4-6:30 p.m.	<b>WDBJ</b> 930 Roanoke, Va., <i>EST.</i> 8 a.m.-mid.
<b>WAAT</b> 940 Jersey City, N. J., <i>EST.</i> 6 a.m.-8 p.m.	<b>WBZ</b> 990 Boston, Mass., <i>EST.</i> 7 a.m.-mid.	<b>WDBO</b> 580 Orlando, Fla., <i>EST.</i> 7 a.m.-mid.
<b>WAAW</b> 660 Omaha, Neb., <i>CST.</i> 6 a.m.-6 p.m.	<b>WBZA</b> 990 Springfield, Mass., <i>EST.</i> 7 a.m.-mid.	<b>WDEL</b> 1120 Wilmington, Del., <i>EST.</i> 9 a.m.-10 p.m.
<b>WABC</b> 860 New York City, <i>EST.</i> 7:30 a.m.-2 a.m. next day.	<b>WCAC</b> 600 Storrs, Conn., <i>EST.</i> 12:30-1 p.m.; 4:30-5; 7-8 p.m.	<b>WDEV</b> 550 Waterbury, Vt., <i>EST.</i> 9:30-11 a.m.; noon-2 p.m.
<b>WABI</b> 1200 Bangor, Maine, <i>EST.</i> 6-9 a.m.; noon-3 p.m.; 6-9 p.m.	<b>WCAD</b> 1220 Canton, N. Y., <i>EST.</i> 12:39-1:20 p.m.; 4-5 p.m.	<b>WDGY</b> 1180 Minneapolis, Minn. 6:30 a.m.-8:15 p.m., <i>CST.</i>
<b>WABZ</b> 1200 New Orleans, La., <i>CST.</i> Noon-4 p.m.; 8 p.m.-mid.	<b>WCAE</b> 1220 Pittsburgh, Pa., <i>EST.</i> 6:45 a.m.-mid.	<b>WDDD</b> 1280 Chattanooga, Tenn. 7:30 a.m.-11 p.m., <i>CST.</i>
<b>WACO</b> 1240 Waco, Texas, <i>CST.</i> 6-7 a.m.; 9-noon; 1:30-4 p.m.; 7-9 p.m.	<b>WCAH</b> 1430 Columbus, Ohio, <i>EST.</i> 7:45 a.m.-mid.	<b>WDRC</b> 1330 Hartford, Conn., <i>EST.</i> 8 a.m.-mid.
<b>WADC</b> 1320 Akron, Ohio, <i>EST.</i> 8:30 a.m.-mid.	<b>WCAJ</b> 590 Lincoln, Neb., <i>CST.</i> 10-10:45 a.m.; 3:30-4 p.m.	<b>WDSU</b> 1250 New Orleans, La., <i>CST.</i> 7 a.m.-11:45 p.m.
<b>WAGM</b> 1420 Presque Isle, Me., <i>EST.</i> 7 a.m.-1 p.m.; 3-9 p.m.	<b>WCAL</b> 1250 Northfield, Minn., <i>CST.</i> 9:45-10:15 a.m.	<b>WDZ</b> 1070 Tuscola, Ill., <i>CST.</i> 7 a.m.-4:30 p.m.
<b>WAIU</b> 640 Columbus, Ohio, <i>EST.</i> 7 a.m.-sunset.	<b>WCAM</b> 1280 Camden, N. J., <i>EST.</i> 11 a.m.-noon; 2-5 p.m.	<b>WEAF</b> 660 New York City, <i>EST.</i> 6:45 a.m.-1 a.m. next day.
<b>WALR</b> 1210 Zanesville, Ohio, <i>EST.</i> 9 a.m.-10 p.m.	<b>WCAO</b> 600 Baltimore, Md., <i>EST.</i> 7 a.m.-mid.	<b>WEAN</b> 780 Providence, R. I., <i>EST.</i> 7:30 a.m.-1 a.m. next day.
<b>WAMC</b> 1420 Anniston, Ala., <i>CST.</i> 7-10:30 a.m.; noon-9 p.m.	<b>WCAP</b> 1280 Asbury Park, N. J., <i>EST.</i> 9-11 a.m.; 5-8 p.m.	<b>WEAO</b> 570 Columbus, Ohio, <i>EST.</i> 9-11 a.m.; 1-3 p.m.; 8-mid.
<b>WAPI</b> 1140 Birmingham, Ala., <i>CST.</i> 6:30 a.m.-sunset; 9 p.m.-mid.	<b>WCAT</b> 1200 Rapid City, S. D., <i>CST.</i> 1:30-2:30 p.m.	<b>WEBC</b> 1290 Superior, Wis., <i>CST.</i> 7 a.m.-11 p.m.
<b>WASH</b> 1270 Gd. Rapids, Mich., <i>CST.</i> 7 a.m.-mid.	<b>WCAU</b> 1170 Philadelphia, Pa., <i>EST.</i> 8 a.m.-1 a.m. next day.	<b>WEBQ</b> 1210 Harrisburg, Ill., <i>CST.</i> 6-9 a.m.; noon-4 p.m.; 8:30 mid.
<b>WAWZ</b> 1350 Zarephath, N. J., <i>EST.</i> 6-9 a.m.; 3-4 p.m.; 6-9 p.m.	<b>WCAX</b> 1200 Burlington, Vt., <i>EST.</i> Noon-1 p.m.; 6-9 p.m.	<b>WEBR</b> 1310 Buffalo, N. Y., <i>EST.</i> 7 a.m.-2 a.m. next day.
<b>WAZL</b> 1420 Hazleton, Pa., <i>EST.</i>	<b>WCAZ</b> 1070 Carthage, Ill., <i>CST.</i> 9:30 a.m.-3:30 p.m.	<b>WEDC</b> 1210 Chicago, Ill.
<b>WBAA</b> 1400 Lafayette, Ind., <i>CST.</i> Silent.	<b>WCBA</b> 1440 Allentown, Pa., <i>EST.</i> 7:30 a.m.-1 a.m.	<b>WEEI</b> 590 Boston, Mass., <i>EST.</i> 6:45 a.m.-mid.
<b>WBAK</b> 1430 Harrisburg, Pa., <i>EST.</i> 10:30-11:15; a.m.; 1:30-2:30 p.m.; 4-4:30 p.m., 8-8:45 p.m.	<b>WCBD</b> 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.	<b>WEEU</b> 830 Reading, Pa., <i>EST.</i> 8 a.m.-8 p.m.
<b>WBAL</b> 1060 Baltimore, Md., <i>EST.</i> 7 a.m.-mid.	<b>WCBM</b> 1370 Baltimore, Md., <i>EST.</i> 7 a.m.-1:30 p.m.; 5-11 p.m.	<b>WEHC</b> 1350 Emory, Va., <i>EST.</i> 6-8 a.m.; 11 a.m.-2 p.m.; 4-7.
<b>WBAP</b> 800 Ft. Worth, Texas, <i>CST.</i> 8:30-10:30 a.m.; 12:30-3 p.m.; 4:30-5:30 p.m.; 9-mid.	<b>WCBS</b> 1210 Springfield, Ill., <i>CST.</i> 11:30 a.m.-3 p.m.; 6:45-9 p.m.	
	<b>WCCO</b> 810 Minneapolis, Minn. 6:45 a.m.-mid., <i>CST.</i>	



# WEHS INDEX BY CALL LETTERS AND WEDNESDAY TIME WJTL

<p><b>WEHS</b> 1420 Cicero, Ill., <i>CST.</i> 4-6 p.m.</p> <p><b>WELL</b> 1420 Battle Creek, Mich. <b>WENC</b> 1420 Americus, Ga., <i>EST.</i> 7 a.m.-2 p.m.; 4 p.m.-sunset.</p> <p><b>WENR</b> 870 Chicago, Ill., <i>CST.</i> 10:15-11:45 a.m.; 3:30-7 p.m.; 8:30 p.m.-1 a.m. next day.</p> <p><b>WERE</b> 1420 Erie, Pa., <i>EST.</i> 8 a.m.-1:30 p.m.; 3:45-10:45.</p> <p><b>WESG</b> 1270 Elmira, N. Y. Variable.</p> <p><b>WEVD</b> 1300 New York City, <i>EST.</i> 8-9 a.m.; 3-6 p.m.; 8-9 p.m.; 10-11 p.m.</p> <p><b>WEW</b> 760 St. Louis, Mo., <i>CST.</i> 8 a.m.-5 p.m.</p> <p><b>WEXL</b> 1310 Royal Oak, Mich., <i>EST.</i> 8 a.m.-11 p.m.</p> <p><b>WFAA</b> 900 Dallas, Texas, <i>CST.</i> 6:45-8:30 a.m.; 10:30 a.m.-12:30 p.m.; 3-5 p.m.; 5:30-9 p.m.</p> <p><b>WFAB</b> 1300 New York City. <b>WFAM</b> 1200 South Bend, Ind., <i>CST.</i> 7:30-10:15 a.m.; noon-3 p.m.; 5:30-8:30 p.m.</p> <p><b>WFAN</b> 610 Philadelphia, Pa., <i>EST.</i> 9 a.m.-mid.</p> <p><b>WFAS</b> 1210 White Plains, N. Y. 3-5 p.m., <i>EST.</i></p> <p><b>WFBE</b> 1200 Cincinnati, Ohio, <i>EST.</i> 7 a.m.-11:30 p.m.</p> <p><b>WFBG</b> 1310 Altoona, Pa. 10:30 a.m.-4:30 p.m.; 8:45-12:45 a.m.</p> <p><b>WFBL</b> 1360 Syracuse, N. Y., <i>EST.</i> 7:30 a.m.-mid.</p> <p><b>WFBM</b> 1230 Indianapolis, Ind., <i>CST.</i> 7:30-10:15 a.m.; noon-3 p.m.; 5:30 p.m.-mid.</p> <p><b>WFBR</b> 1270 Baltimore, Md., <i>EST.</i> 7 a.m.-mid.</p> <p><b>WFDF</b> 1310 Flint, Mich., <i>CST.</i> 7 a.m.-11 p.m.</p> <p><b>WFDV</b> 1500 Rome, Ga., <i>CST.</i> 6-9 a.m.; noon-3 p.m.; 6-9 p.m.</p> <p><b>WFEA</b> 1430 Manchester, N. H., <i>EST.</i> 9 a.m.-11 p.m.</p> <p><b>WFI</b> 560 Philadelphia, Pa., <i>EST.</i> 6:45-9 a.m.; 9:45-11 p.m.; 1-2 p.m.; 3-4:30 p.m.; 6 p.m.-7 p.m.</p> <p><b>WFIW</b> 940 Hopkinsville, Ky., <i>CST.</i> 6 a.m.-3 p.m.; 5 p.m.-mid.</p> <p><b>WFLA</b> 620 Clearwater, Fla., <i>EST.</i> 7:15 a.m.-mid.</p> <p><b>WFOX</b> 1400 Brooklyn, N. Y., <i>EST.</i> 11:15 a.m.-1:30; 6-7:30 p.m.</p> <p><b>WGAL</b> 1310 Lancaster, Pa., <i>EST.</i> 10 a.m.-noon; 1:30-6 p.m.; 7-11 p.m.</p> <p><b>WGAR</b> 1450 Cleveland, Ohio, <i>EST.</i> 6 a.m.-1 a.m. next day.</p> <p><b>WGBB</b> 1210 Freeport, N. Y., <i>EST.</i> 9 a.m.-noon; 7-mid.</p> <p><b>WGBF</b> 630 Evansville, Ind., <i>CST.</i> 6:30 a.m.-3:30 p.m.; 4:6-45 p.m.; 7-9 p.m.</p> <p><b>WGBI</b> 880 Scranton, Pa., <i>EST.</i> 9:30 a.m.-12:30 p.m.; 1:30-4:30 p.m.; 5:30-10:30 p.m.</p> <p><b>WGCM</b> 1210 Gulfport, Miss., <i>CST.</i> 8 a.m.-2 p.m.; 3-9 p.m.</p> <p><b>WGCP</b> 1250 Newark, N. J., <i>EST.</i> 2-5 p.m.; 8-10 p.m.</p> <p><b>WGES</b> 1360 Chicago, Ill., <i>CST.</i> 8 a.m.-12:30 p.m.; 6:15-8:30</p>	<p><b>WGH</b> 1310 Newport News, Va. 7 a.m.-2 p.m.; 5-11 p.m., <i>EST.</i></p> <p><b>WGL</b> 1370 Fort Wayne, Ind., <i>CST.</i> 6:15 a.m.-9:30 p.m.</p> <p><b>WGLC</b> 1370 Glens Falls, N. Y., <i>EST.</i></p> <p><b>WGN</b> 720 Chicago, Ill., <i>CST.</i> 7:30 a.m.-1:30 a.m. next day.</p> <p><b>WGNV</b> 1210 Chester, N. Y., <i>EST.</i></p> <p><b>WGR</b> 560 Buffalo, N. Y., <i>EST.</i> 7:30 a.m.-mid.</p> <p><b>WGST</b> 890 Atlanta, Ga., <i>CST.</i> 7 a.m.-11 p.m.</p> <p><b>WGY</b> 790 Schenectady N.Y., <i>EST.</i> 6:45 a.m.-1 a.m. next day.</p> <p><b>WHA</b> 940 Madison, Wis., <i>CST.</i> 8 a.m.-3:30 p.m.</p> <p><b>WHAD</b> 1120 Milwaukee, Wis., <i>CST.</i> 9:30-10:15 a.m.; 3-4 p.m.; 8:30- 9:30 p.m.</p> <p><b>WHAM</b> 1150 Rochester, N. Y., <i>EST.</i> 7:45 a.m.-mid.</p> <p><b>WHAS</b> 820 Louisville, Ky., <i>CST.</i> 7 a.m.-mid.</p> <p><b>WHAT</b> 1310 Philadelphia, Pa., <i>EST.</i> 9-11 a.m.; 1-2; 5-mid.</p> <p><b>WHAZ</b> 1300 Troy, N. Y., <i>EST.</i> Silent.</p> <p><b>WHB</b> 860 Kansas City, Mo., <i>CST.</i> 6 a.m.-sunset,</p> <p><b>WHBC</b> 1200 Canton, Ohio, <i>EST.</i> 6-9 a.m.; noon-3 p.m.; 6-9 p.m.</p> <p><b>WHBD</b> 1370 Mt. Orab, Ohio, <i>EST.</i> 7-11 a.m.; noon-5 p.m.; 6-9 p.m.</p> <p><b>WHBF</b> 1210 Rock Island, Ill., <i>CST.</i> 10 a.m.-3 p.m.; 5 p.m.-mid.</p> <p><b>WHBL</b> 1410 Sheboygan, Wis., <i>CST.</i> 7-10 a.m.; 12:30-3 p.m.; 6-8 p.m.; 10 p.m.-mid.</p> <p><b>WHBQ</b> 1370 Memphis, Tenn., <i>CST.</i> 7:55 a.m.-10:30 p.m.</p> <p><b>WHBU</b> 1210 Anderson, Ind., <i>CST.</i> 7 a.m.-1 p.m.; 3-9:15 p.m.</p> <p><b>WHBY</b> 1200 Green Bay, Wis., <i>CST.</i> 7 a.m.-10 p.m.</p> <p><b>WHDF</b> 1370 Calumet, Mich., <i>CST.</i> 9-10 a.m.; noon-1 p.m.; 4:40-7.</p> <p><b>WHDH</b> 830 Boston, Mass., <i>EST.</i> 8 a.m.-12:45 p.m.; 2:45-7:15.</p> <p><b>WHDL</b> 1420 Tupper Lake, N. Y., <i>EST.</i> 7:45 a.m.-1 p.m.; 3-7:45 p.m.</p> <p><b>WHEB</b> 740 Portsmouth, N. H., <i>EST.</i> 10 a.m.-sunset.</p> <p><b>WHEC</b> 1430 Rochester, N. Y., <i>EST.</i> 8 a.m.-mid.</p> <p><b>WHFE</b> 1500 Kosciusko, Miss.</p> <p><b>WHET</b> 1210 Troy, Ala., <i>CST.</i> 6-8 a.m.; 11 a.m.-5 p.m.</p> <p><b>WHFC</b> 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.</p> <p><b>WHIS</b> 1410 Bluefield, W. Va., <i>EST.</i> 8-9 a.m.; noon-2 p.m.; 6-8 p.m.</p> <p><b>WHK</b> 1390 Cleveland, Ohio, <i>EST.</i> 7 a.m.-mid.</p> <p><b>WHN</b> 1010 New York City, <i>EST.</i> 4 p.m.-1 a.m.</p> <p><b>WHO</b> 1000 Des Moines, Iowa.</p> <p><b>WHOM</b> 1450 Jersey City, N. J., <i>EST.</i> 8-noon; 3-6; 9-mid.</p> <p><b>WHP</b> 1430 Harrisburg, Pa., <i>EST.</i> 8:30-10:30 a.m.; 11:15 a.m.-1:30 p.m.; 2:30-4 p.m.; 4:30-8; 9:45-1 a.m.</p> <p><b>WIAS</b> 1310 Ottumwa, Iowa, <i>CST.</i> 7:30 a.m.-1:30 p.m.; 4-9 p.m.</p> <p><b>WIBA</b> 1280 Madison, Wis., <i>CST.</i> 6:30 a.m.-11:30 p.m.</p>	<p><b>WIBG</b> 930 Glenside, Pa., <i>EST.</i> Daybreak to sunset.</p> <p><b>WIBM</b> 1370 Jackson, Mich., <i>CST.</i> 7:30 a.m.-8:15 p.m.; 11 p.m.- mid.</p> <p><b>WIBO</b> 560 Chicago, Ill., <i>CST.</i> 6:30 a.m.-mid.</p> <p><b>WIBU</b> 1210 Poyntette, Wis., <i>CST.</i> 9 a.m.-9 p.m.</p> <p><b>WIBW</b> 560 Topeka, Kans., <i>CST.</i> 6 a.m.-mid.</p> <p><b>WIBX</b> 1200 Utica, N. Y.</p> <p><b>WICC</b> 600 Bridgeport, Conn., <i>EST.</i> 7:30 a.m.-12:30 p.m.; 1-7 p.m.; 8-mid.</p> <p><b>WIL</b> 1200 St. Louis, Mo., <i>CST.</i> 7 a.m.-mid.</p> <p><b>WILL</b> 890 Urbana, Ill., <i>CST.</i> 10 a.m.-12:15 p.m.; 5-6 p.m.</p> <p><b>WILM</b> 1420 Wilmington, Del., <i>EST.</i> 7:30 a.m.-2 p.m.; 4:30-10 p.m.</p> <p><b>WINS</b> 1180 New York City, <i>EST.</i> 7 a.m.-10:15 p.m.</p> <p><b>WIOD</b> 1300 Miami, Fla., <i>EST.</i> 7 a.m.-1 a.m. next day.</p> <p><b>WIP</b> 610 Philadelphia, Pa., <i>EST.</i> 9 a.m.-mid.</p> <p><b>WIS</b> 1010 Columbia, S. C., <i>EST.</i> 7 a.m.-1:30 p.m.; 5:30-11 p.m.</p> <p><b>WISN</b> 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.</p> <p><b>WJAC</b> 1310 Johnstown, Pa., <i>EST.</i> 8:30-10:30 a.m.; 4:30-8:45 p.m.</p> <p><b>WJAG</b> 1060 Norfolk, Neb., <i>CST.</i> 6 a.m.-sunset.</p> <p><b>WJAR</b> 890 Providence, R. I., <i>EST.</i> 8 a.m.-mid.</p> <p><b>WJAS</b> 1290 Pittsburgh, Pa., <i>EST.</i> 7:30 a.m.-11:30 p.m.</p> <p><b>WJAX</b> 900 Jacksonville, Fla., <i>EST.</i> 7 a.m.-11 p.m.</p> <p><b>WJAY</b> 610 Cleveland, Ohio, <i>EST.</i> 6 a.m.-6:45 p.m.</p> <p><b>WJBC</b> 1200 LaSalle, Ill., <i>CST.</i> 8-9 a.m.; 10 a.m.-12:30 p.m.; 6:30-10 p.m.</p> <p><b>WJBI</b> 1210 Red Bank, N. J., <i>EST.</i> 5-7 p.m.</p> <p><b>WJBK</b> 1370 Detroit, Mich., <i>EST.</i> 7 a.m.-11 p.m.</p> <p><b>WJBL</b> 1200 Decatur, Ill., <i>CST.</i> 6:30-8 a.m.; 9-10 p.m.; 12:30-3 4:30-6:30 p.m.</p> <p><b>WJBO</b> 1420 New Orleans, La.</p> <p><b>WJBU</b> 1210 Lewisburg, Pa., <i>EST.</i> Noon-2 p.m.; 4-10 p.m.</p> <p><b>WJBW</b> 1200 New Orleans, La., <i>CST.</i> 8 a.m.-noon; 4-8 p.m.</p> <p><b>WJBY</b> 1210 Gadsden, Ala., <i>CST.</i> 6 a.m.-12:10 next day.</p> <p><b>WJDX</b> 1270 Jackson, Miss., <i>CST.</i> 6:15-10 a.m.; 11:30 a.m.-10 p.m.</p> <p><b>WJEJ</b> 1210 Hagerstown, Md.</p> <p><b>WJEQ</b> 1370 Williamsport, Pa.</p> <p><b>WJJD</b> 1130 Chicago, Ill., <i>CST.</i> 6 a.m.-8:30 p.m.</p> <p><b>WJKS</b> 1360 Gary, Ind., <i>CST.</i> 12:30-6:15 p.m.; 8:30 p.m.-mid.</p> <p><b>WJMS</b> 1420 Ironwood, Mich., <i>CST.</i> 7 a.m.-2:30 p.m.; 4:30 p.m.-sun- set.</p> <p><b>WJR</b> 750 Detroit, Mich., <i>EST.</i> 6:00 a.m.-1 a.m. nextday.</p> <p><b>WJSV</b> 1460 Washington, D. C., <i>EST.</i> 7:30 a.m.-1 a.m. next day.</p> <p><b>WJTL</b> 1370 Atlanta, Ga., <i>CST.</i> 6:45 a.m.-mid.</p>
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<b>WJW</b> 1210 Akron, Ohio, <i>EST.</i> 8 a.m.-10 p.m.	<b>WMAL</b> 630 Washington, D. C., <i>EST.</i> 8 a.m.-mid.	<b>WODA</b> 1250 Paterson, N. J. 1410 Mobile, Ala., <i>CST.</i>
<b>WJZ</b> 760 New York City, <i>EST.</i> 7:30 a.m.-1 a.m. next day.	<b>WMAQ</b> 670 Chicago, Ill., <i>CST.</i> 7 a.m.-1 a.m. next day.	<b>WOI</b> 940 Ames, Iowa, <i>CST.</i> 6:30 a.m.-1:30 p.m.
<b>WKAQ</b> 1240 San Juan, P. R., <i>AST.</i> 2:30-4:30 p.m.; 6:30-10 p.m.	<b>WMAS</b> 1420 Springfield, Mass., <i>EST</i> 7:45 a.m.-mid.	<b>WOKO</b> 1430 Albany, N. Y., <i>EST.</i> 9 a.m.-1 a.m. next day.
<b>WKAR</b> 1040 E. Lansing, Mich., <i>CST.</i> Noon-12:30 p.m.	<b>WMAZ</b> 1180 Macon, Ga., <i>EST.</i> 7 a.m.-9:30 p.m.	<b>WOL</b> 1310 Washington, D. C., <i>EST</i> 7 a.m.-1 p.m.; 3-9 p.m.
<b>WKAV</b> 1310 Laconia, N. H., <i>EST.</i> 9 a.m.-1 p.m.; 3-8 p.m.	<b>WMBC</b> 1420 Detroit, Mich., <i>EST.</i> 7:30 a.m.-mid.	<b>WOMT</b> 1210 Manitowoc, Wis., <i>CST.</i> 7 a.m.-9 p.m.
<b>WKBB</b> 1310 Joliet, Ill., <i>CST.</i> 8-11 a.m.; noon-3 p.m.; 8 p.m.-10 p.m.	<b>WMBD</b> 1440 Peoria, Ill., <i>CST.</i> 6:45-9:30 a.m.; 1-2:30 p.m.; 8-mid.	<b>WOOD</b> 1270 Gd. Rapids, Mich., <i>CST.</i> 7 a.m.-mid.
<b>WKBC</b> 1310 Birmingham, Ala.	<b>WMBG</b> 1210 Richmond, Va., <i>EST.</i> 7:30 a.m.-1:30 p.m.; 5-11 p.m.	<b>WOPI</b> 1500 Bristol, Tenn., <i>EST.</i> 7 a.m.-2 p.m.; 4-9 p.m.
<b>WKBF</b> 1400 Indianapolis, Ind., <i>CST.</i> 6:30 a.m.-1:15 p.m.; 3:45-10:30 p.m.	<b>WMBH</b> 1420 Joplin, Mo. Noon-2 p.m.; 6-9:30 p.m., <i>CST.</i>	<b>WOQ</b> 1300 Kansas City, Mo., <i>CST.</i> 6-7 a.m.; 8:35-9:05 a.m.; 11-11:30 a.m.; 2-3 p.m.; 6-7; 9-10; 11-mid.
<b>WKBH</b> 1380 LaCrosse, Wis., <i>CST.</i> 7:30 a.m.-10 p.m.	<b>WMBI</b> 1080 Chicago, Ill., <i>CST!</i> 7-7:30 a.m.; 10-1:30; 3-4; 5:30-8 p.m.	<b>WOR</b> 710 Newark, N. J., <i>EST.</i> 6:45 a.m.-mid.
<b>WKBI</b> 1420 Cicero, Ill., <i>CST.</i> 1:30-4 p.m.; 9-11 p.m.	<b>WMBO</b> 1310 Auburn, N. Y., <i>EST.</i> 9 a.m.-9 p.m.	<b>WORC</b> 1200 Worcester, Mass., <i>EST.</i> 8 a.m.-mid.
<b>WKBN</b> 570 Youngstown, Ohio, <i>EST.</i> 7-9 a.m.; 11 a.m.-1 p.m.; 3-8 p.m.	<b>WMBQ</b> 1500 Brooklyn, N. Y., <i>EST.</i> 9-11 a.m.	<b>WORK</b> 1000 York, Pa., <i>EST.</i> 7:55 a.m.-sunset.
<b>WKBS</b> 1310 Galesburg, Ill.	<b>WMBR</b> 1370 Tampa, Fla., <i>EST.</i> 6:45 a.m.-10 p.m.	<b>WOS</b> 630 Jefferson City, Mo. 9 a.m.-4 p.m., <i>CST.</i>
<b>WKBV</b> 1500 Connersville, Ind., <i>CST.</i> 10 a.m.-noon; 6-10 p.m.	<b>WMC</b> 780 Memphis, Tenn., <i>CST.</i> 7 a.m.-11 p.m.	<b>WOV</b> 1130 New York City, <i>EST.</i> 8 a.m.-6 p.m.
<b>WKBW</b> 1480 Buffalo, N. Y., <i>EST</i> 9:15 a.m.-1 a.m. next day.	<b>WMCA</b> 570 New York City, <i>EST.</i> 8-11 a.m.; noon-6 p.m.; 10-2 a.m.	<b>WOW</b> 590 Omaha, Neb., <i>CST.</i> 6:15-10 a.m.; 10:45 a.m.-3 p.m.; 4-mid.
<b>WKBZ</b> 1500 Ludington, Mich., <i>CST.</i> 9 a.m.-9 p.m.	<b>WMIL</b> 1500 Brooklyn, N. Y., <i>EST.</i> 2-6 p.m.; 10 p.m.-2:30 a.m.	<b>WOWO</b> 1160 Fort Wayne, Ind., <i>CST.</i> 7:30 a.m.-7:45 p.m.; 9:15 p.m.-mid.
<b>WKFI</b> 1210 Greenville, Miss., <i>CST.</i> 7 a.m.-2 p.m.; 4-9 p.m.	<b>WMMN</b> 690 Fairmont, W. Va., <i>EST.</i> 7 a.m.-9 p.m.	<b>WPAD</b> 1420 Paducah, Ky., <i>CST.</i> 7-9:30 a.m.; 11 a.m.-2 p.m. 4-mid.
<b>WKJC</b> 1200 Lancaster, Pa., <i>EST.</i> 11 a.m.-3 p.m.; 6-8 p.m.	<b>WMPC</b> 1500 Lapeer, Mich., <i>EST.</i> 10 a.m.-2 p.m.; 3-3:06 p.m.; 7-10:30 p.m.	<b>WPAP</b> 1010 New York City, <i>EST:</i> 9:30 a.m.-1 p.m.
<b>WKRC</b> 550 Cincinnati, Ohio, <i>EST.</i> 6:45 a.m.-mid.	<b>WMSG</b> 1350 New York City, <i>EST.</i> 9 p.m.-mid.	<b>WPAW</b> 1210 Providence, R. I., <i>EST.</i> 9 a.m.-1:45 p.m.; 3 p.m.-mid.
<b>WKY</b> 900 Oklahoma City, Okla., 6:30 a.m.-11:30 p.m., <i>CST.</i>	<b>WMT</b> 690 Waterloo, Iowa, <i>CST.</i> 7 a.m.-11 p.m.	<b>WPCC</b> 560 Chicago, Ill. Silent.
<b>WKZO</b> 590 Kalamazoo, Mich., <i>CST.</i> 6:30 a.m.-8:15 p.m.	<b>WNAC</b> 1230 Boston, Mass., <i>EST.</i> 8 a.m.-1 a.m. next day.	<b>WPCB</b> 810 New York City, <i>EST.</i> 8 a.m.-sunset.
<b>WLAC</b> 1470 Nashville, Tenn., <i>CST.</i> 7 a.m.-11 p.m.	<b>WNAD</b> 1010 Norman, Okla. 8:15-9:15 p.m.	<b>WPEN</b> 1500 Philadelphia, Pa., <i>EST.</i> 7:30 a.m.-10:30 p.m.
<b>WLAP</b> 1200 Louisville, Ky., <i>CST.</i> 6:30 a.m.-11 p.m.	<b>WNAX</b> 570 Yankton, S. D., <i>CST.</i> 6 a.m.-mid.	<b>WPFB</b> 1370 Hattiesburg, Miss., <i>CST.</i> 7 a.m.-2 p.m.; 4-9 p.m.
<b>WLB</b> 1250 Minneapolis, Minn., 10:30-11:30 a.m.; 12:30-1 p.m., <i>CST.</i>	<b>WNB</b> 1500 Binghamton, N. Y., <i>EST.</i> 7 a.m.-10 p.m.	<b>WPG</b> 1100 Atlantic City, N. J., <i>EST.</i> 8:15 a.m.-6 p.m.; 8 p.m.-1 a.m.
<b>WLB</b> 1310 Muncie, Ind., <i>CST.</i> 7 a.m.-11 p.m.	<b>WNBH</b> 1310 New Belford, Mass. <i>EST!</i>	<b>WPHR</b> 1210 Petersburg, Va., <i>EST.</i> 7-11 a.m.; noon-5 p.m.; 6-9 p.m.
<b>WLB</b> 1420 Kansas City, Kans. 7 a.m.-11 p.m., <i>CST.</i>	<b>WNBO</b> 1200 Washington, Pa., <i>EST.</i> 9 a.m.-noon; 3-6 p.m.; 9 p.m.-mid.	<b>WPOR</b> 780 Norfolk, Va.
<b>WLBL</b> 800 Stevens Point, Wis. 8 a.m.-3:30 p.m., <i>CST.</i>	<b>WNBR</b> 1430 Memphis, Tenn., <i>CST.</i> 7:30 a.m.-12:30 p.m.; 9-10:15	<b>WPRO</b> 1210 Providence, R. I., <i>EST.</i> 9 a.m.-1:45 p.m.; 3 p.m.-mid.
<b>WLBW</b> 1260 Erie, Pa., <i>EST.</i> 8 a.m.-1 a.m. next day.	<b>WNB</b> 1290 Carbondale, Pa. 1250 Springfield, Vt., <i>EST.</i> 6 a.m.-sunset.	<b>WPTF</b> 680 Raleigh, N. C., <i>EST.</i> 6:45 a.m.-7:45 p.m.
<b>WLBZ</b> 620 Bangor, Maine, <i>EST.</i> 8:30 a.m.-mid.	<b>WNBZ</b> 1290 Saranac Lake, N. Y. 1450 Newark, N. J., <i>EST.</i> noon-3 p.m.	<b>WQAM</b> 560 Miami, Fla., <i>EST.</i> 7 a.m.-mid.
<b>WLEY</b> 1370 Lexington, Mass., <i>EST.</i> Noon-3 p.m.; 6-9 p.m.	<b>WNOX</b> 560 Knoxville, Tenn., <i>CST.</i> 6:45 a.m.-11 p.m.	<b>WQAN</b> 880 Scranton, Pa., <i>EST.</i> 9-9:30 a.m.; 12:30-1:30 p.m.; 4:30-5:30 p.m.
<b>WLIT</b> 560 Philadelphia, Pa., <i>EST.</i> 9-9:45 a.m.; 11 a.m.-1 p.m.; 2-3 p.m.; 4:30-6 p.m.; 7-mid.	<b>WNYC</b> 570 New York City, <i>EST.</i> 11 a.m.-noon; 6-10 p.m.	<b>WQAO</b> 1010 New York City, <i>EST.</i> 7:30-8:30 p.m.
<b>WLOE</b> 1500 Boston, Mass., <i>EST.</i> 10 a.m.-1:30 p.m.; 4:30-10 p.m.	<b>WNOI</b> 1190 San Antonio, Tex., <i>CST.</i> 6:30-9:30 a.m.; 11:15 a.m.-3 p.m.; 4:45-10:45 p.m.	<b>WQBC</b> 1360 Vicksburg, Miss., <i>CST.</i> 7:30 a.m.-2:30 p.m.; 5-10 p.m.
<b>WLS</b> 870 Chicago, Ill., <i>CST.</i> 6-10:15 a.m.; 11:45 a.m.-3:30 p.m.; 7-8:30 p.m.	<b>WOAX</b> 1280 Trenton, N. J., <i>EST.</i> Noon-2 p.m.; 8-mid.	<b>WQDM</b> 1370 St. Albans, Vt., <i>EST.</i> 8-9 a.m.; 11 a.m.-2 p.m.
<b>WLTH</b> 1400 Brooklyn, N. Y., <i>EST.</i> 4-6 p.m.; 10-mid.	<b>WOBU</b> 580 Charleston, W. Va., <i>EST.</i> 9 a.m.-noon; 2-4 p.m.; 8:30 p.m.-mid.	<b>WQDX</b> 1210 Thomasville, Ga.
<b>WLVA</b> 1370 Lynchburg, Va., <i>EST.</i> 1-3 p.m.; 6:30-10 p.m.	<b>WOC</b> 1000 Davenport, Iowa, <i>CST.</i> 7 a.m.-11 p.m.	<b>WRAK</b> 1370 Williamsport, Pa., <i>EST.</i> 8:30 a.m.-2:30 p.m.; 4:30-10:30.
<b>WLW</b> 700 Cincinnati, Ohio, <i>EST.</i> 6:30 a.m.-1 a.m. next day.	<b>WOCL</b> 1210 Jamestown, N. Y., <i>EST.</i> Noon-mid.	<b>WRAM</b> 1370 Wilmington, N. C., <i>EST.</i> 7:30 a.m.-3 p.m.; 6:30-11 p.m.
<b>WLWL</b> 1100 New York City. 6-8 p.m., <i>EST.</i>		<b>WRAW</b> 1310 Reading, Pa., <i>EST.</i> 7-9:30 a.m.; 6-7 p.m.
<b>WMAC</b> 570 Syracuse, N. Y.		

**WRAX** 1020 Philadelphia, Pa., *EST.*  
9 a.m.-sunset.  
**WRBL** 1200 Columbus, Ga., *CST.*  
7 a.m.-9 p.m.  
**WRBX** 1410 Roanoke, Va., *EST.*  
9 a.m.-noon; 3-6 p.m.; 8 p.m.-1  
9:30 Washington, D.C., *EST.*  
6:45 a.m.-1 a.m. next day.  
**WRDO** 1370 Augusta, Maine, *EST.*  
7-9:30 a.m.; 10:30 a.m.-1:30  
p.m.; 3:30-10 p.m.  
**WRDW** 1500 Augusta, Ga., *EST.*  
8 a.m.-2 p.m.; 5-11 p.m.  
**WREC** 600 Memphis, Tenn.  
**WREN** 1220 Lawrence, Kans., *CST.*  
7 a.m.-mid.  
**WRHM** 1250 Minneapolis, Minn.  
6:15-9:45 a.m.; 11:30-12:30; 1-8;  
9-1 a.m. *CST.*  
**WRJN** 1370 Racine, Wis., *CST.*  
8 a.m.-10:30 p.m.  
**WRNY** 1010 New York City.  
**WROL** 1310 Knoxville, Tenn., *CST.*  
7 a.m.-10 p.m.  
**WRR** 1280 Dallas, Texas, *CST.*  
6:30 a.m.-11 p.m.  
**WRUF** 830 Gainesville, Fla., *EST.*  
8 a.m.-6:30 p.m.  
**WRVA** 1110 Richmond, Va., *EST.*  
7 a.m.-mid.  
**WSAI** 1330 Cincinnati, Ohio, *EST.*  
8 a.m.-11 p.m.  
**WSAJ** 1310 Grove City, Pa.  
Silent.  
**WSAN** 1440 Allentown, Pa., *EST.*  
Silent.  
**WSAR** 1450 Fall River, Mass., *EST.*  
8 a.m.-3:30 p.m.; 5-10 p.m.  
**WSAZ** 580 Huntington, W. Va.,  
*EST.*  
6-9 a.m.; noon-2 p.m.; 4-8:30.  
740 Atlanta, Ga., *CST.*  
7 a.m.-mid.  
**WSBC** 1210 Chicago, Ill.  
**WSBT** 1230 South Bend, Ind., *CST.*  
6-7:30 a.m.; 10:15 a.m.-noon;  
3-5:30 p.m.  
**WSEN** 1210 Columbus, Ohio, *EST.*  
8 a.m.-11 p.m.  
**WSFA** 1410 Montgomery, Ala., *CST.*  
6:30 a.m.-sunset; 9-11 p.m.  
**WSIX** 1210 Springfield, Tenn., *CST.*  
6 a.m.-3 p.m.; 6-9 p.m.  
**WSJS** 1310 Winston-Salem, N. C.  
8 a.m.-mid., *EST.*  
**WSM** 650 Nashville, Tenn., *CST.*  
6:30 a.m.-mid.  
**WSMB** 1320 New Orleans, La., *CST.*  
7 a.m.-mid.  
**WSMK** 1380 Dayton, Ohio, *EST.*  
7 a.m.-8 p.m.; 10 p.m.-mid.  
**WSOC** 1210 Gastonia, N. C., *EST.*  
8 a.m.-10 p.m.  
**WSPA** 1420 Spartanburg, S. C., *EST.*  
7:30 a.m.-11 p.m.  
**WSPD** 1340 Toledo, Ohio, *EST.*  
7:30 a.m.-mid.  
**WSUI** 880 Iowa City, Iowa, *CST.*  
9-10 a.m.; 11-12:30; 2-4; 6-10  
p.m.  
**WSUN** 620 St. Petersburg, Fla., *EST.*  
7:15 a.m.-mid.  
**WSVS** 1370 Buffalo, N. Y., *EST.*  
8:30 a.m.-10 a.m.; 2-3 p.m.  
**WSYB** 1500 Rutland, Vt., *EST.*  
10 a.m.-1 p.m.; 5-9 p.m.  
**WSYR** 570 Syracuse, N. Y., *EST.*  
7 a.m.-3 p.m.; 4-11 p.m.

**WTAD** 1440 Quincy, Ill., *CST.*  
9:30 a.m.-1 p.m.; 2:30-8 p.m.  
**WTAG** 680 Worcester, Mass., *EST.*  
8 a.m.-11:15 p.m.  
**WTAM** 1070 Cleveland, Ohio, *EST.*  
10:10  
6:30 a.m.-1 a.m. next day.  
**WTAQ** 1330 Eau Claire, Wis., *CST.*  
7 a.m.-8 p.m.  
**WTAR** 780 Norfolk, Va., *EST.*  
7 a.m.-mid.  
**WTAW** 1120 College Station, Texas.  
12:30-1:30 p.m.; 8-9 p.m. *CST.*  
**WTAX** 1210 Springfield, Ill., *CST.*  
7-11:30 a.m.; 3-6:45; 9-mid.  
**WTBO** 1420 Cumberland, Md., *EST.*  
7 a.m.-1:30 p.m.; 2:30-8 p.m.  
**WTEL** 1310 Philadelphia, Pa., *EST.*  
7 a.m.-9; noon-1 p.m.  
**WTFI** 1450 Athens, Ga., *EST.*  
8 a.m.-4 p.m.; 6-10 p.m.  
**WTIC** 1060 Hartford, Conn., *EST.*  
4 p.m.-12:30 a.m.  
**WTJS** 1310 Jackson, Tenn., *CST.*  
7 a.m.-1 p.m.; 3-9 p.m.  
**WTMJ** 620 Milwaukee, Wis., *CST.*  
6:45 a.m.-mid.  
**WTOC** 1250 Savannah, Ga., *EST.*  
7 a.m.-mid.  
**WTRC** 1310 Elkhart, Ind., *CST.*  
7:30 a.m.-7:30 p.m.  
**WTSL** 1310 Laurel, Miss.  
**WWAE** 1200 Hammond, Ind., *CST.*  
7 a.m.-8:30; 11-1 p.m.; 4-11:30  
p.m.  
**WWJ** 920 Detroit, Mich., *EST.*  
7:33 a.m.-mid.  
**WWL** 850 New Orleans, La., *CST.*  
8 a.m.-8:30 p.m.  
**WWNC** 570 Asheville, N. C., *CST.*  
7 a.m.-mid.  
**WWRL** 1500 Woodside, N. Y., *EST.*  
8-9 a.m.; 11 a.m.-noon; 8-10  
p.m.  
**WWSW** 1500 Pittsburgh, Pa., *EST.*  
8 a.m.-1:30 p.m.; 3-11:30 p.m.  
**WWVA** 1150 Wheeling, W. Va., *EST.*  
7:30 a.m.-7:45 p.m.  
**WXYZ** 1240 Detroit, Mich., *EST.*  
7:30 a.m.-mid.  
**XEA** 1155 Guadalajara, Mex., *CST.*  
11 a.m.-noon; 2-3 p.m.; 5-11.  
**XEB** 1030 Mexico City, Mex., *CST.*  
8 a.m.-mid.  
**XEC** 1000 Toluca, Mex.  
**XED** 965 Reynosa, Mex.  
**XEE** 1000 Oaxaca, Mex.  
**XEF** 735 Villa Acuna, Mex.  
24 hours daily.  
**XEFA** 1250 Mexico City, Mex.  
**XEFB** 1315 Monterrey, Mex., *CST.*  
11 a.m.-2 p.m.; 6-10 p.m.  
**XEFC** 1050 Merida, Mex.  
**XEFD** 1020 Tijuana, Mex.  
**XEFE** 1000 Laredo, Mex.  
**XEFI** 1000 Chihuahua, Mex.  
**XEFO** 940 Mexico City, Mex., *CST.*  
2-3 p.m.; 7-11 p.m.  
**XEFS** 1000 Queretaro, Mex., *CST.*  
7:30-10:30 p.m.  
**XEFZ** 1370 Coyoacan, Mex., *CST.*  
8-11 p.m.  
**XEG** 1070 Mexico City, Mex.  
**XEH** 1132 Monterrey, Mex., *CST.*  
9 a.m.-1:30 p.m.; 6-10 p.m.  
**XEI** 1310 Morelia, Mex., *CST.*  
2-3:30 p.m.; 8:30-10 p.m.  
**XEJ** 1000 Juarez, Mex., *CST.*  
11 a.m.-4 p.m.; 6-11 p.m.

**XEK** 990 Mexico City, Mex.  
**XEL** 1000 Saltillo, Mex., *CST.*  
11 a.m.-1 p.m.; 6-9 p.m.  
**XEM** 1300 Tampico, Mex.  
**XEN** 711 Mexico City, Mex., *CST.*  
10 a.m.-noon; 2-4 p.m.; 7-11  
1115 Neuvo Laredo, Mex.  
**XENT** 1400 Laredo, Mex.  
**XEP** 750 Juarez, Mex., *MST.*  
9 a.m.-2 p.m.; 5-11 p.m.  
735 Villa Acuna, Mex.  
24 hours daily.  
**XES** 1055 Tampico, Mex., *CST.*  
9-10:30 a.m.; noon-2 p.m.; 7-15-  
10 p.m.  
**XET** 690 Monterrey, Mex., *CST.*  
9 a.m.-2 p.m.; 6-10 p.m.  
**XETA** 1140 Mexico City, Mex.  
**XETB** 1380 Torreon, Mex.  
**XETC** 1000 Jalapa, Mex.  
**XETF** 630 Veracruz, Mex., *CST.*  
7-8 a.m.; noon-2 p.m.; 7 p.m.  
mid.  
**XETG** 1000 Torreon, Mex.  
**XETQ** 1230 Mexico City, Mex.  
**XETR** 610 Mexico City, Mex.  
**XEU** 1007 Veracruz, Mex., *CST.*  
7-8 a.m.; 10-11 a.m.; noon-3  
p.m.; 6-8 p.m.  
**XEV** 1000 Pueblo, Mex.  
**XEW** 910 Mexico City, Mex., *CST.*  
10 a.m.-mid.  
**XEX** 1210 Mexico City, Mex.  
**XEY** 1000 Mexico City, Mex.  
**XEZ** 780 Mexico City, Mex.  
**XFC** 810 Aguascalientes, Mex.  
**XFF** 875 Chihuahua, Mex.  
**XFG** 683.3 Mexico City, Mex.  
**XFX** 963 Mexico City, Mex.  
**YFBC** 960 Caracas, Venez.  
**10-AB** 1200 Moose Jaw, Sask., *MST.*  
5:30-7 p.m.  
**10-AK** 1200 Stratford, Ont., *EST.*  
6-8 p.m.  
**10-AT** 1155 Trail, B. C.  
**10-BI** 1200 Prince Albert, Sask.  
Noon-1 p.m.; 6-8 p.m. *MST.*  
**10-BP** 1199 Wingham, Ont., *EST.*  
Silent.  
**10-BQ** 1200 Brantford, Ont., *EST.*  
Noon-1 p.m.; 6-7-8-10 p.m.  
**10-BU** 1200 Canora, Sask.

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# ALPHABETICAL INDEX TO SHORT WAVE STATIONS OF THE WORLD

Call	Mega.	Meters	City	Call	Mega.	Meters	City
<b>CAA to CEZ—CHILE</b>				DHO	20.028	14.97	Nauen
CEC	10.664	28.12	Santiago	DIH	19.950	15.03	Nauen
CEC	19.678	15.24	Santiago	DIQ	5.144	58.33	Nauen
<b>CFA to CKZ—CANADA</b>				DIZ	10.150	29.58	Nauen
CFA	6.840	43.83	Drummondville, Que.	DJA	9.552	31.38	Zeesen
CFH	9.030	33.20	Halifax, N. S.	DJA	9.550	31.36	Konigswusterhausen
CGA	4.782	62.70	Drummondville, Que.	DJB	15.190	19.73	Zeesen
CGA	9.340	32.10	Drummondville, Que.	DJB	15.200	19.72	Konigswusterhausen
CGA	13.296	22.55	Drummondville, Que.	DJC	6.020	49.80	Konigswusterhausen
CGA	18.170	16.50	Drummondville, Que.	DJD	11.760	25.50	Konigswusterhausen
CGE	7.520	39.87	Calgary, Alta.	DJE	17.760	16.88	Konigswusterhausen
CGE	7.550	39.71	Calgary, Alta.	DWG	20.140	14.88	Nauen
CKS	7.550	39.71	Calgary, Alta.	D4AFF	6.875	43.61	Colthen
<b>CLA to CMZ—CUBA</b>				<b>EAA to EHZ—SPAIN</b>			
CMCI	6.057	49.50	Havana	EAJ1	15.760	19.02	Barcelona
CM2LA	10.013	29.94	Havana	EAJ7	10.090	29.70	Madrid
CM2MK	7.184	41.75	Havana	EAJ25	6.000	49.97	Barcelona
CM2MK	9.350*	32.07	Havana	EAM	9.772	30.68	Madrid
CM5RY	7.312	41.00	Matanzas	EAQ	9.862	30.40	Madrid
CM6DW	7.300	41.07	Cienfuegos	EAQ	19.684	15.23	Madrid
<b>CNA to CNZ—MOROCCO</b>				EAR25	6.120	48.99	Barcelona
CN8MC	5.875	51.03	Casablanca	EAR58	7.207	41.60	Teneriffe, Canary Islands
CN8MC	6.250	47.97	Casablanca	EAR110	6.976	43.00	Madrid
<b>CPA to CPZ—BOLIVIA</b>				EAR125	7.020	42.71	Madrid
<b>CRA to CRZ—PORTUGUESE COLONIES</b>				EATH	8.100	37.01	Vienna, Austria
<b>CSA to CUZ—PORTUGAL</b>				EATH	8.900	33.69	Posen, Poland
CT1AA	9.592	31.25	Lisbon	EATH	10.800	27.76	Posen, Poland
CT1BO	10.710	28.00	Lisbon	<b>EIA to EIZ—IRELAND</b>			
CT2AG	6.380	40.99	Madeira Islands	<b>ELA to ELZ—LIBERIA</b>			
CT3AQ	9.370	32.00	Funchel, Madeira	<b>ESA to ESZ—ESTONIA</b>			
CT3AQ	12.490	24.00	Funchel, Madeira	<b>ETA to ETZ—ETHIOPIA</b>			
<b>CVA to CVZ—ROUMANIA</b>				<b>F—FRANCE AND COLONIES AND PROTECTORATES</b>			
<b>CWA to CXZ—URUGUAY</b>				FIUI	5.689	52.70	Tanarive, Madagascar
<b>CZA to CZZ—MONACO</b>				FL	6.120	48.99	Paris
<b>D—GERMANY</b>				FL	9.230	32.48	Paris
DAN	8.328	36.00	Norden	FM8KR	3.750	79.95	Constantine, Algeria
DAN	11.340	26.44	Nordeich	PQE-FQE	12.150	24.68	St. Assise
DAN	12.490	24.00	Norden	PRE-FRO	18.240	16.44	St. Assise
DAN	16.601	18.06	Norden	FRE-FRO	19.400	15.45	St. Assise
DDAC	8.328	36.00	S. S. Europa	FSR	20.680	14.50	Paris-Saigon, Indo China
DDAS	13.040	23.00	S. S. Bremen	FTD	19.839	15.12	St. Assise
DDBR	8.328	36.00	S. S. Berlin	FTE	18.240	16.44	St. Assise
DDCB	13.040	23.00	S. S. Columbus	FTF	7.770	38.59	St. Assise
DDCG	8.328	36.00	S. S. Resolute	FTI	9.840	30.47	St. Assise
DDCP	13.040	23.00	S. S. Cap Polonia	FTK	15.860	18.90	St. Assise
DDDT	8.328	36.00	S. S. Deutschland	FTL	7.660	39.14	St. Assise
DDDX	13.040	23.00	S. S. Hamburg	FTM	19.282	15.55	St. Assise
DDEA	8.328	36.00	S. S. Cap Arcona	FTN	12.250	24.46	St. Assise
DDED	13.040	23.00	S. S. New York	FW4	12.700	23.61	St. Assise
DDFF	8.328	36.00	S. S. Reliance	FYA	11.308	26.51	Paris
DDFT	13.040	23.00	S. S. Oceana	FYA	11.680	25.67	Paris
DDNY	13.040	23.00	S. S. Albert Ballin	FYA	11.898	25.20	Paris
DFA	19.240	15.58	Nauen	FYA	15.234	19.68	Paris
DGK	6.975	44.91	Nauen	FZA	18.365	16.32	Saigon, Indo-China
DHC	10.160	29.51	Nauen	FZG	12.000	24.99	Saigon, Indo-China
DHI	11.435	28.21	Nauen	FZG	13.010	23.04	Saigon, Indo-China
DHI	10.054	29.82	.....	FZR	16.200	18.51	Saigon, Indo-China
				FZS	18.310	16.38	Saigon, Indo-China
				FZU	19.460	15.40	Tamatoro, Madagascar
				F31CD	15.750	19.03	Saigon, Indo-China
				F8BP	5.450	55.01	Ruggles
				F8BZ	7.775	38.57	Paris
				F8BZ	13.628	22.00	Paris
				F8BZ	15.456	19.40	Paris
				F8KR	3.750	79.95	Constantine, Tunis
				F8KR	6.660	45.02	Constantine, Algeria
				F8KR	7.005	42.80	Constantine, Algeria
				F8MC	6.875	43.61	Casablanca, Morocco
				F8MC	10.710	28.00	Casablanca
<b>G—GREAT BRITAIN</b>				<b>G—GREAT BRITAIN</b>			
				GBA	20.400	14.70	Rugby, England



Call	Megs.	Meters	City	Call	Megs.	Meters	City
KGPH	2.450	122.40	Oklahoma City, Okla.	KSW	3.100	96.72	Amarillo, Texas
KGPI	2.470	121.40	Omaha, Neb.	KSW	5.560	53.92	Amarillo, Texas
KGPI	1.712	175.13	Beaumont, Texas	KSX	3.100	96.72	Albuquerque, N. M.
KGPK	2.470	121.40	Sioux City, Iowa	KSX	5.560	53.92	Albuquerque, N. M.
KGPL	1.712	175.13	Los Angeles, Calif.	KSY	3.100	96.72	Tulsa, Okla.
KGPL	3.100	96.72	Kingman, Ariz.	KSY	5.560	53.92	Tulsa, Okla.
KGPL	5.560	53.92	Kingman, Ariz.	KVO	3.178	94.34	Portland, Ore.
KGPM	2.470	121.40	San Jose, Calif.	KVO	5.657	53.00	Portland, Ore.
KGPN	2.470	121.40	Davenport, Iowa	KVP	1.712	175.13	Dallas, Texas
KGPO	2.450	122.40	Tulsa, Okla.	KWO	15.410	19.46	Dixon, Calif.
KGPP	2.422	123.79	Portland, Ore.	KWU	15.344	19.54	Dixon, Calif.
KGPO	2.450	122.40	Honolulu, Hawaii	KWV	10.830	27.68	Dixon, Calif.
KGPR	1.712	175.13	Fort Worth, Texas	KWX	7.605	39.42	Dixon, Calif.
KGPS	2.414	124.20	Bakersfield, Calif.	KWY	7.562	39.65	Dixon, Calif.
KGPV	2.502	119.83	Des Moines, Iowa	KZJ	3.178	94.34	Seattle, Wash.
KGPV	2.470	121.40	Salt Lake City, Utah	KZJ	5.657	53.00	Seattle, Wash.
KGPX	2.422	123.79	Denver, Colo.	KZRM	6.140	48.83	Manila, P. I.
KGPY	1.574	190.48	Shreveport, La.	KZRM	9.570	31.33	Manila, P. I.
KGPZ	2.450	122.40	Wichita, Kans.	KZRM	11.840	25.34	Manila, P. I.
KGT	3.178	94.34	Fresno, Calif.				
KGT	5.657	53.00	Fresno, Calif.				
KGTD	3.100	96.72	Wichita, Kans.	LGN	9.600	31.23	Bergen
KGTD	5.560	53.92	Wichita, Kans.				
KGTY	3.100	96.72	Las Vegas, Nev.				
KGTY	5.560	53.92	Las Vegas, Nev.	LQA	9.600	31.23	Buenos Aires
KGTR	3.100	96.72	St. Louis, Mo.	LSA	9.890	30.32	Buenos Aires
KGTR	5.560	53.92	St. Louis, Mo.	LSA	14.530	20.65	Buenos Aires
KGUA	3.490	85.91	El Paso, Texas	LSG	19.895	15.07	Buenos Aires
KGUA	5.630	53.25	El Paso, Texas	LSJ	15.000	19.99	Buenos Aires
KGUC	3.490	85.91	Fort Worth, Texas	LSL	9.993	30.00	Buenos Aires
KGUC	5.630	53.25	Fort Worth, Texas	LSM	21.129	14.19	Buenos Aires
KGUF	3.490	85.91	Dallas, Texas	LSN	9.895	30.30	Buenos Aires
KGUF	5.630	53.25	Dallas, Texas	LSN	10.300	29.00	Buenos Aires
KGUG	3.490	85.91	Big Springs, Tex.	LSN	14.480	20.70	Buenos Aires
KGUG	5.630	53.25	Big Springs, Tex.	LSN	20.680	14.50	Buenos Aires
KGUK	3.490	85.91	Shreveport, La.	LSN	21.020	14.27	Buenos Aires
KGUK	5.630	53.25	Shreveport, La.	LSOR	9.810	30.56	Buenos Aires
KGUL	3.490	85.91	Abilene, Texas	LSR	18.958	15.82	Buenos Aires
KGUL	5.630	53.25	Abilene, Texas	LSRD	9.810	30.56	Buenos Aires
KGZA	2.416	124.09	Fresno, Calif.	LSX	10.300	29.00	Buenos Aires
KGZB	1.712	175.13	Houston, Texas	LSX	10.345	28.98	Buenos Aires
KIO	11.690	25.65	Hakuku, Hawaii	LSY	20.680	14.50	Buenos Aires
KIXR	9.560	31.36	Manila, P. I.	LSY	10.410	28.80	Buenos Aires
KIXR	11.440	26.20	Manila, P. I.	LSY	20.710	14.47	Buenos Aires
KIXR	11.820	25.39	Manila, P. I.				
KIXR	12.250	24.46	Manila, P. I.				
KJE	3.170	94.58	Reno, Nev.				
KJE	5.600	53.54	Reno, Nev.	NAA	4.105	73.03	Arlington, Va.
KKO	3.170	94.58	Elko, Nev.	NAA	8.872	33.79	Arlington, Va.
KKO	5.600	53.54	Elko, Nev.	NAA	12.045	24.89	Arlington, Va.
KKP	16.024	18.71	Kahuku, Hawaii	NAA	16.060	18.06	Arlington, Va.
KKQ	11.945	25.10	Bolinas, Calif.	NPO	8.872	33.79	Cavite, Manila, P. I.
KKQ	11.969	25.05	Bolinas, Calif.	NSS	12.045	24.89	Annapolis, Md.
KKW	13.776	21.77	Dixon, Calif.				
KKX	13.690	21.90	Bolinas, Calif.				
KKZ	14.150	21.17	Bolinas, Calif.				
KMP	3.170	94.58	Omaha, Neb.	OBE	13.043	22.98	La Punta
KMP	5.600	53.54	Omaha, Neb.	OCI	10.962	27.35	Lima
KMR	3.170	94.58	No. Platte, Neb.	OCI	18.670	16.06	Lima
KMR	5.600	53.54	No. Platte, Neb.				
KQC	3.170	94.58	Rock Springs, Wyo.				
KQC	5.600	53.54	Rock Springs, Wyo.				
KQD	3.170	94.58	Salt Lake City, Utah	OHK2	4.280	70.05	Vienna, Austria
KQD	5.600	53.54	Salt Lake City, Utah	OKI	21.000	14.28	Podebrady
KQE	3.170	94.58	Cheyenne, Wyo.	OKIMPI	5.169	58.00	Prague
KQE	5.600	53.54	Cheyenne, Wyo.				
KQJ	18.000	16.67	Bolinas, Calif.				
KQM	3.170	94.58	Des Moines, Iowa	ONA to OTZ—BELGIUM AND COLONIES			
KQM	5.600	53.54	Des Moines, Iowa	OPL	20.028	14.97	Leopoldsville, Belgian
KQQ	3.170	94.58	Iowa City, Iowa	Congo			
KQQ	5.600	53.54	Iowa City, Iowa	OPM	10.090	29.70	Leopoldsville, Belgian
KQX	3.178	94.34	Bakersfield, Calif.	Congo			
KQX	5.657	53.00	Bakersfield, Calif.	ORG	19.194	15.62	Brussels
KRA	3.170	94.58	Boise, Idaho	ORK	10.340	28.99	Brussels
KRA	5.600	53.54	Boise, Idaho				
KRF	3.170	94.58	Lincoln, Neb.	OXO-OXZ	6.057	49.50	Copenhagen
KRF	5.600	53.54	Lincoln, Neb.	OXO-OXZ	9.488	31.60	Copenhagen
KSI	3.100	96.72	Los Angeles, Calif.	OXO-OXZ	15.300	19.53	Copenhagen
KSI	5.560	53.92	Los Angeles, Calif.	OXY	9.520	31.49	Copenhagen
KST	3.100	96.72	Kansas City, Mo.	OXY	15.300	19.53	Lyngby
KST	5.560	53.92	Kansas City, Mo.	OZ7MK	9.375	31.97	Copenhagen
KSW	2.422	123.79	Berkeley, Calif.	OZ7R	3.560	84.22	Copenhagen
				OZ7RL	9.500	31.56	Copenhagen

Call	Megs.	Meters	City
<b>PAa to PIZ—NETHERLANDS</b>			
PBF5	6.438	46.58	Hague
PCJ	9.590	31.26	Eindhoven
PCJ	15.220	19.71	Hilversum
PCK	7.770	38.59	Kootwijk
PCK	18.400	16.29	Kootwijk
PCL	16.300	18.39	Kootwijk
PCM	6.430	46.63	Hague
PCP	10.800	27.76	Kootwijk
PCV	17.800	16.82	Kootwijk
PDK	10.410	28.80	Kootwijk
PDM	18.600	16.12	Kootwijk
PDV	7.830	38.29	Kootwijk
PHI	17.775	16.87	Huizen
PHO	17.775	16.87	Huizen

Call	Megs.	Meters	City
<b>PJA to PJZ—CURACAO</b>			
<b>PKA to POZ—DUTCH EAST INDIES</b>			
PKP	10.410	28.80	Medan, Sumatra
PK1AA	3.998	75.00	Batavia, Java.
PK2AF	6.000	49.97	Djocjocarta, Java
PK2AG	3.156	95.00	Semarang, Java
PK2AG	7.890	38.00	Semarang, Java
PK3AN	6.040	49.64	Surabaya, Java
PK3CH	6.662	45.00	Surabaya, Java
PK4PA	59.964	5.00	Palembang, Sumatra
PK6K	11.720	25.58	Makassar, Celebes
PK6KZ	11.993	25.00	Makassar, Celebes
PLE	9.410	31.86	Bandoeng, Java
PLE	18.820	15.93	Bandoeng, Java
PLF	17.640	16.99	Malabar
PLG	17.850	16.80	Bandoeng, Java
PLG	15.950	13.80	Bandoeng, Java
PLM	12.290	24.40	Bandoeng, Java
PLR	10.630	28.20	Bandoeng, Java
PLV	9.410	31.86	Bandoeng, Java
PLW	8.120	36.92	Bandoeng, Java
PLW	9.480	31.63	Bandoeng, Java
FMB	5.170	57.99	Surabaya, Java
FMB	20.600	14.55	Bandoeng, Java
PMC	18.170	16.50	Bandoeng, Java
PMY	5.143	58.30	Bandoeng, Java

Call	Megs.	Meters	City
<b>PPA to PYZ—BRAZIL</b>			
PPQ	11.644	25.75	Rio de Janeiro
PPU	19.270	15.57	Rio de Janeiro
PRADO	6.618	45.31	Riobamba, Ecuador
PRAG	8.450	35.48	Porto Alegre
PRBA	9.492	31.58	Rio de Janeiro
PSA	16.162	18.55	Rio de Janeiro
PSH	10.212	29.35	Rio de Janeiro
PSK	8.180	36.65	Rio de Janeiro
PSS	14.682	20.42	Rio de Janeiro
PTH	6.120	48.99	Rio de Janeiro

Call	Megs.	Meters	City
<b>PZA to PZZ—SURINAM</b>			
<b>Q—RESERVED FOR CODE</b>			
<b>RAA to RQZ—U. S. S. R. (RUSSIA)</b>			
REN	6.000	49.97	Moscow
REN	6.430	46.63	Moscow
REN	6.611	45.35	Moscow
RFN	6.000	49.97	Moscow
RFN	6.560	45.70	Moscow
RW38	5.614	53.40	Moscow
RW3KAA	8.333	35.98	Leningrad
RW15	4.273	70.65	Khabarovsk
RW15	8.570	34.98	Khabarovsk
RW19	8.111	38.96	Tomsk
RW38	5.515	54.38	Moscow
RW50	11.923	25.16	Moskva Imeni Popova
RW54	4.273	70.65	Moscow
RW59	6.000	49.97	Moscow
RW61	51.724	5.79	Moskva Vei
RW62	6.420	40.70	Minsk
RW65	3.560	84.22	Peredvika
RW69	1.900	157.80	Odesa
RW71	5.000	59.96	Petropavlovsk Kam-
tchatski			

RW72	6.610	45.36	Moskva
<b>RVA to RVZ—PERSIA</b>			
<b>RXA to RXZ—PANAMA</b>			

Call	Megs.	Meters	City
<b>RYA to RYZ—LITHUANIA</b>			
<b>SAA to SMZ—SWEDEN</b>			
SAJ	6.065	49.44	Motala
SAS	11.760	25.50	Kalsborg
SBG	6.065	49.44	Motala
<b>SPA to SRZ—POLAND</b>			
SRI	9.570	31.33	Poznan
<b>SUA to SUZ—EGYPT</b>			
SUS	9.110	32.91	Cairo
SUV	10.051	29.83	Cairo
SUZ	13.816	21.70	Cairo

Call	Megs.	Meters	City
<b>SVA to SZZ—GREECE</b>			
<b>TAA to TCZ—TURKEY</b>			
<b>TFA to TFZ—ICELAND</b>			
<b>TGA to TGZ—GUATEMALA</b>			
TGCA	13.043	22.98	Guatemala City
TGGA	9.370	32.00	Guatemala City
TGW	6.480	46.27	Guatemala City
TGW	6.678	44.90	Guatemala City
TGW	10.800	27.76	Guatemala City
TGX	8.950	33.50	Guatemala City
TGX	9.516	31.52	Guatemala City

Call	Megs.	Meters	City
<b>TIA to TIZ—COSTA RICA</b>			
TIRA	6.080	49.31	Electra Cartago
TIRA	9.590	31.26	Electra Cartago
TITR	11.790	25.42	S. Jose
TI4NRH	9.670	31.00	Heredia
TI4NRH	15.066	19.90	Heredia

Call	Megs.	Meters	City
<b>TTA to TTB—SAAR BASIN</b>			
<b>UHA to UHZ—HED JAZ</b>			
<b>UIA to UKZ—DUTCH EAST INDIES</b>			
<b>ULA to ULZ—LUXEMBURG</b>			
<b>UNA to UNZ—JUGOSLAVIA</b>			
<b>UOA to UOZ—AUSTRIA</b>			
UOR2	6.072	49.37	Vienna
UOR2	11.800	25.40	Vienna

Call	Megs.	Meters	City
<b>UWA to UWZ—CANADA</b>			
<b>VAA to VGZ—CANADA</b>			
VAS	10.709	28.02	Glace Bay, N. S.
VBS	8.400	35.69	Glace Bay, N. S.
VE9AF	2.850	105.20	Montreal, Que.
VE9AK	2.830	105.90	Red Deer, Alta.
VE9AP	6.335	47.35	Drummondville, Que.
VE9AR	2.850	105.20	Saskatoon, Sask.
VE9AS	3.030	98.95	Saskatoon, Sask.
VE9BA	6.130	48.91	Montreal, Que.
VE9BA	11.705	25.63	Montreal, Que.
VE9BA	15.190	19.73	Montreal, Que.
VE9BJ	6.090	49.23	St. John, N. B.
VE9BY	4.792	62.56	London, Ont.
VE9BY	6.426	46.65	London, Ont.
VE9BY	8.645	34.68	London, Ont.
VE9BZ	2.750	109.00	Vancouver, B. C.
VE9CA	11.860	25.28	Calgary, Alta.
VE9CF	6.050	40.56	Halifax, N. S.
VE9CI	2.735	109.62	London, Ont.
VE9CL	5.710	52.51	Winnipeg, Man.
VE9CL	6.150	48.75	Winnipeg, Man.
VE9CS	6.070	49.30	Vancouver, B. C.
VE9CX	6.015	49.84	Wolfville, N. S.
VE9DN	6.005	49.93	Montreal, Que.
VE9DN	9.580	31.30	Montreal, Que.
VE9DN	11.895	25.21	Montreal, Que.
VE9DR	6.005	49.93	Drummondville, Que.
VE9DR	9.555	31.37	Drummondville, Que.
VE9DR	11.780	25.44	Drummondville, Que.
VE9EH	6.080	49.31	Charlottetown, P. E. I.
VE9GW	6.092	49.22	Bowmanville, Ont.
VE9GW	24.380	12.30	Bowmanville, Ont.
VE9HX	6.050	49.56	Halifax, N. S.
VE9JR	11.720	25.58	Winnipeg, Man.
VE9OS	2.100	142.80	Montreal, Que.
VE9RM	2.004	149.61	Toronto, Ont.

Call	Megs.	Meters	City
<b>VHA to VMZ—AUSTRALIA</b>			
VK2BL	9.230	32.48	Sydney
VK2FC	10.520	28.50	Sydney

Call	Megs.	Meters	City	Call	Megs.	Meters	City
VK2ME	7.940	37.76	Sydney	WNA	9.182	32.72	Lawrenceville, N. J.
VK2ME	9.585	31.28	Sydney	WNB	5.868	51.09	Lawrenceville, N. J.
VK2ME-VLK	9.750	30.75	Sydney	WNC	9.750	30.75	Deal, N. J.
VK2ME	9.940	30.16	Sydney	WNC	14.480	20.70	Deal, N. J.
VK2ME	10.520	28.50	Sydney	WNC	19.220	15.60	Deal, N. J.
VK2ME	16.320	18.37	Sydney	WND	6.753	44.40	Deal, N. J.
VK2ME	19.400	15.45	Sydney	WND	13.400	22.37	Deal, N. J.
VK3LO	9.369	32.01	Melbourne	WND	18.350	16.35	Deal, N. J.
VK3ME	9.090	32.98	Melbourne	WOA	6.752	44.41	Lawrenceville, N. J.
VK3ME	9.548	31.40	Melbourne	WOB	6.752	44.41	Lawrenceville, N. J.
VK3UZ	8.820	33.99	Melbourne	WOF	9.742	30.77	Lawrenceville, N. J.
VK3VZ	9.375	31.97	Melbourne	WOK	10.540	28.44	Lawrenceville, N. J.
VK6AG	7.195	41.67	Perth	WON	9.862	30.40	Lawrenceville, N. J.
VK6AG	15.000	19.99	Perth	WOO	3.124	95.97	Deal, N. J.
VLK	10.540	28.44	Sydney	WOO	4.116	72.87	Deal, N. J.
VLK	16.320	18.37	Sydney	WOO	4.748	63.13	Deal, N. J.
				WOO	6.515	46.02	Deal, N. J.
				WOO	8.562	35.02	Deal, N. J.
				WOO	8.630	34.74	Deal, N. J.
				WOO	12.836	23.36	Deal, N. J.
				WOO	17.110	17.52	Deal, N. J.

**VOA to VOZ—NEWFOUNDLAND**

VO8Z	6.800	44.09	St. Johns
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**VPA to VSZ—BRITISH COLONIES AND PROTECTORATES**

VPD	7.890	38.00	Suva, Fiji Islands
VPD	14.420	20.80	Suva, Fiji Islands
VQ7LO	6.060	49.48	Nairobi, Kenya, Africa
VQ7LO	9.616	31.18	Nairobi, Kenya
VRT-ZFA	5.045	59.42	Hamilton, Bermuda
VRT-ZFB	10.060	29.80	Hamilton, Bermuda
VSIAB	7.195	41.67	Singapore, Straits Settlement
VS8AB	7.055	42.50	Johore Baru, British Malaya

**VTA to VWZ—BRITISH INDIA**

VUC	11.870	25.27	Calcutta
VVD	6.110	49.07	Bombay

**W—UNITED STATES**

WAEA	3.100	96.72	Indianapolis, Ind.
WAEA	5.560	53.92	Indianapolis, Ind.
WABE	3.100	96.72	Columbus, Ohio
WABE	5.560	53.92	Columbus, Ohio
WAEC	3.100	96.72	Pittsburgh, Pa.
WAEC	5.560	53.92	Pittsburgh, Pa.
WAED	3.100	96.72	Harrisburg, Pa.
WAED	5.560	53.92	Harrisburg, Pa.
WAEE	3.100	96.72	Camden, N. J.
WAEE	5.560	53.92	Camden, N. J.
WAEF	3.100	96.72	Newark, N. J.
WAEF	5.560	53.92	Newark, N. J.
WCF	1.596	187.85	New York, N. Y.
WCK-WPDX	2,414	124.20	Detroit, Mich.
WEF-W2BJ	9.488	31.60	Rocky Point, N. Y.
WEJ-W2XBJ	6.732	44.54	Rocky Point, N. Y.
WEL-W2XBJ	8.945	33.52	Rocky Point, N. Y.
WEM-W2XBJ	7.396	40.54	Rocky Point, N. Y.
WES-W2XBJ	9.448	31.74	Rocky Point, N. Y.
WEY	1.558	192.43	Boston, Mass.
WIY-W2XBJ	13.880	21.63	Rocky Point, N. Y.
WKA	21.054	14.24	Lawrenceville, N. J.
WKDT	1,596	187.85	Detroit, Mich.
WKK-WKDU	1,712	175.13	Cincinnati, Ohio
WKF	19.207	15.61	Lawrenceville, N. J.
WKK	21,400	14.01	Lawrenceville, N. J.
WKN	19.316	15.13	Lawrenceville, N. J.
WKU-W2XBJ	14.796	20.27	Rocky Point, N. Y.
WKW-W2XBJ	19.012	15.77	Rocky Point, N. Y.
WLA	18.340	16.35	Lawrenceville, N. J.
WLK	16.260	18.44	Lawrenceville, N. J.
WLO	10.540	28.44	Lawrenceville, N. J.
WLO	16.300	18.39	Lawrenceville, N. J.
WLO	21.400	14.01	Lawrenceville, N. J.
WMA	13.380	22.40	Lawrenceville, N. J.
WMDZ	2.422	123.79	Indianapolis, Ind.
WMF	14.464	20.73	Lawrenceville, N. J.
WMI	19.850	15.10	Deal, N. J.
WMJ	2.422	123.79	Buffalo, N. Y.
WMN	14.582	20.56	Lawrenceville, N. J.
WMO	2.414	124.20	Highland Park, Mich.
WMP	1.475	190.48	Framingham, Mass.
WNA	9.182	32.72	Lawrenceville, N. J.
WNB	5.868	51.09	Lawrenceville, N. J.
WNC	9.750	30.75	Deal, N. J.
WNC	14.480	20.70	Deal, N. J.
WNC	19.220	15.60	Deal, N. J.
WND	6.753	44.40	Deal, N. J.
WND	13.400	22.37	Deal, N. J.
WND	18.350	16.35	Deal, N. J.
WOA	6.752	44.41	Lawrenceville, N. J.
WOB	6.752	44.41	Lawrenceville, N. J.
WOF	9.742	30.77	Lawrenceville, N. J.
WOK	10.540	28.44	Lawrenceville, N. J.
WON	9.862	30.40	Lawrenceville, N. J.
WOO	3.124	95.97	Deal, N. J.
WOO	4.116	72.87	Deal, N. J.
WOO	4.748	63.13	Deal, N. J.
WOO	6.515	46.02	Deal, N. J.
WOO	8.562	35.02	Deal, N. J.
WOO	8.630	34.74	Deal, N. J.
WOO	12.836	23.36	Deal, N. J.
WOO	17.110	17.52	Deal, N. J.
WPDA	2.414	124.20	Tulare, Calif.
WPDB	1.712	175.13	Chicago, Ill.
WPDC	1.712	175.13	Chicago, Ill.
WPDE	1.712	175.13	Chicago, Ill.
WPDE	2.422	123.79	Louisville, Ky.
WPDE	2.442	122.77	Flint, Mich.
WPDG	2.458	121.97	Youngstown, Ohio
WPDH	2.422	123.79	Richmond, Ind.
WPDI	2.430	123.45	Columbus, Ohio
WPDK	2.450	122.40	Milwaukee, Wis.
WPDL	2.442	122.77	Lansing, Mich.
WPDN	2.458	121.97	Auburn, N. Y.
WPDO	2.458	121.97	Akron, Ohio
WPDP	2.470	121.40	Philadelphia, Pa.
WPDR	2.458	121.97	Rochester, N. Y.
WPDS	2.416	124.09	St. Paul, Minn.
WPDT	2.470	121.40	Kokomo, Ind.
WPDU	1.712	175.13	Pittsburgh, Pa.
WPDV	2.458	121.97	Charlotte, N. C.
WPDW	2.422	123.79	Washington, D. C.
WPDY	2.414	124.20	Atlanta, Ga.
WPDZ	2.470	121.40	Fort Wayne, Ind.
WPEA	2.458	121.97	Syracuse, N. Y.
WPEB	2.442	122.77	Grand Rapids, Mich.
WPEC	2.470	121.40	Memphis, Tenn.
WPEE	1.712	175.13	Arlington, Mass.
WPEF	2.450	122.40	Brooklyn, N. Y.
WPEG	2.450	122.40	Brook, N. Y.
WPEH	1.712	175.13	New York, N. Y.
WPEI	1.712	175.13	Sommerville, Mass.
WPDJ	2.414	124.20	Passaic, N. J.
WPDK	2.414	124.20	Dayton, Ohio
WQDP	3.490	85.91	Atlanta, Ga.
WQDP	5.630	53.25	Atlanta, Ga.
WQDU	3.170	94.58	Aurora, Ill.
WQDU	5.600	53.54	Aurora, Ill.
WRBH	2.450	122.40	Cleveland, Ohio
WRDQ	2.470	121.40	Toledo, Ohio
WRDR	2.414	124.20	Grosse Pt. Village, Mich.
WRDS	1.574	190.48	E. Lansing, Mich.
WRDU	1.596	187.85	Brooklyn, N. Y.
WSBN	4.174	71.82	S. S. Leviathan
	8.830	39.95	
	13.220	22.68	
	17.580	17.05	
WSDB	3.490	85.91	Jackson, Miss.
WSDB	5.630	53.25	Jackson, Miss.
WSDC	5.657	53.00	Newark, N. J.
WSDE	3.490	85.91	Tuscaloosa, Ala.
WSDE	5.630	53.25	Tuscaloosa, Ala.
WSDM	5.657	53.00	Albany, N. Y.
WSDO	5.657	53.00	Buffalo, N. Y.
WSDQ	5.657	53.00	Cleveland, Ohio
W1XAB	4.700	63.79	Portland, Me.
W1XAL	11.790	25.42	Boston, Mass.
W1XAZ	9.570	31.33	Springfield, Mass.
W2XAC	8.690	34.50	Schenectady, N. Y.
W2XAD	15.320	19.57	Schenectady, N. Y.
W2XAF	9.530	31.46	Schenectady, N. Y.
W2XAO	17.850	16.80	New Brunswick, N. J.
W2XBA	34.600	8.67	New Brunswick, N. J.

W1XAU Boston 1350  
 W1XAV Boston 1550  
 W2XAR New York 1550

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W1XO White Station Mass. S.P.  
 1574 190.60 from N. Newark



Call	Megs.	Meters	City
W2XBC	51.400	5.83	New Brunswick, N. J.
W2XBH	5.502	54.50	Brooklyn, N. Y.
W2XCU	8.650	34.66	Ampere, N. J.
W2XCU	12.850	23.33	Ampere, N. J.
W2XCU	17.300	17.33	Ampere, N. J.
W2XDJ	21.420	14.00	Deal, N. J.
W2XDO	8.630	34.74	Ocean Gate, N. J.
W2XDO	17.110	17.52	Ocean Gate, N. J.
W2XE	6.120	48.99	Richmond Hill, N. Y.
W2XE	11.840	25.34	Richmond Hill, N. Y.
W2XE	15.280	19.62	Richmond Hill, N. Y.
W2XK	17.300	17.34	Schenectady, N. Y.
W2XV	4.797	62.50	Long Island City, N. Y.
W2XV	4.975	60.27	Long Island City, N. Y.
W2XV	8.650	34.66	Long Island City, N. Y.
W3XAL	6.096	49.18	Boundbrook, N. J.
W3XAL	17.772	16.87	Boundbrook, N. J.
W3XE	8.650	34.66	Baltimore, Md.
W3XL	6.386	46.96	Boundbrook, N. J.
W3XX	8.650	34.66	Washington, D. C.
W3XZ	4.795	62.53	Washington, D. C.
W3XZU	9.585	31.28	Philadelphia, Pa.
W4XG	8.650	34.66	Miami, Fla.
W6XAJ	17.300	17.33	Oakland, Calif.
W6XD	27.800	10.78	Palo Alto, Calif.
W6XQ	24.000	12.48	San Mateo, Calif.
W7XA	17.300	17.33	Portland, Ore.
W7XC	17.300	17.33	Seattle, Wash.
W8XAG	8.650	34.66	Dayton, Ohio
W8XAL	6.060	49.48	Cincinnati, Ohio
W8XI	31.000	9.67	Pittsburgh, Pa.
W8XK	6.140	48.83	Pittsburgh, Pa.
W8XK	11.872	25.25	Pittsburgh, Pa.
W8XK	14.480	20.70	Pittsburgh, Pa.
W8XK	15.204	19.72	Pittsburgh, Pa.
W8XK	17.780	16.87	Pittsburgh, Pa.
W8XK	21.540	13.92	Pittsburgh, Pa.
W8XL	17.300	17.33	Dayton, Ohio
W9XAA	6.076	49.34	Chicago, Ill.
W9XAA	11.840	25.34	Chicago, Ill.
W9XAA	18.105	16.56	Chicago, Ill.
W9XAM	4.795	62.53	Elgin, Ill.
W9XF	6.020	49.80	Chicago, Ill.
W9XF	6.095	49.19	Chicago, Ill.
W9XF	20.500	14.63	Chicago, Ill.
W9XL	3.676	97.47	Chicago, Ill.
W9XL	3.256	92.08	Chicago, Ill.
W9XL	4.795	62.53	Chicago, Ill.
W9XL	6.425	46.66	Anoka, Minn.
W9XL	8.650	34.66	Chicago, Ill.
W9XL	12.850	23.33	Anoka, Minn.
W9XL	17.300	17.33	Anoka, Minn.
<b>XAA to XFZ—MEXICO</b>			
XAM	5.766	52.00	Merida, Yucatan
XAM	11.520	26.00	Merida, Yucatan
XDA	5.857	55.96	Mexico City
XDA	5.879	51.00	Mexico City
XDA	6.818	44.00	Mexico City
XDA	9.375	31.97	Mexico City
XDA	11.760	25.50	Mexico City
XDA	14.620	20.51	Mexico City
XEW	6.020	49.80	Mexico City
XFD	4.867	44.98	Mexico City
XFD	9.091	32.97	Mexico City
XFD	11.111	26.98	Mexico City
XFD	6.380	46.99	Mexico City
<b>XGA to XUZ—CHINA</b>			
XGTE	5.000	59.96	Shanghai
<b>YAA to YAZ—AFGHANISTAN</b>			
<b>YHA to YHZ—NEW HEBRIDES</b>			
<b>YIA to YIZ—IRAQ</b>			
<b>YLA to YLZ—LATVIA</b>			
<b>YMA to YMZ—DANZIG</b>			
<b>YNA to YNZ—NICARAGUA</b>			
<b>YSA to YSZ—EL SALVADOR</b>			
<b>YVA to YVZ—VENEZUELA</b>			
YVQ	11.680	25.67	Maracay
YVQ	18.296	16.39	Maracay
YV2BC	6.000	49.97	Caracas
YV4BV	11.700	25.62	Valencia

Call	Megs.	Meters	City
YV11BMO	6.125	48.95	Maracaibo
<b>ZAA to ZAZ—ALBANIA</b>			
<b>ZKA to ZMZ—NEW ZEALAND</b>			
ZLT	8.897	33.70	Wellington
ZLW	10.980	27.30	Wellington
ZLW	12.290	24.40	Wellington
ZLW	18.340	16.35	Wellington
ZLZX	4.770	62.86	Wellington
ZLZX	9.560	31.36	Wellington
ZLZX	6.057	49.50	Wellington
ZLZC	6.000	49.97	Christchurch
<b>ZPA to ZPY—PARAGUAY</b>			
<b>ZSA to ZUZ—UNION OF SOUTH AFRICA</b>			
ZTD	7.400	40.52	Durban
ZTJ	6.072	49.37	Johannesburg
ZTJ	7.329	40.90	Johannesburg

## Short Wave Stations of Canada

Call	Megs.	Meters	City
<b>Calgary—ALBERTA</b>			
CGE	7.520	39.87	Tues., & Thurs., test-ing.
CKS	7.550	39.71	
CGE	7.550	39.71	Western Broadcasting Co., Ltd.
VE9CA	11.860	25.28	Western Broadcasting Co., Ltd.
<b>Red Deer</b>			
VE9AK	2.830	105.90	
<b>Vancouver—BRITISH COLUMBIA</b>			
VE9BZ	2.750	109.00	
VE9CS	6.070	49.39	United Church of Canada, Sun., 3:30 p. m. to midnight. Fri., 0 to 1:30 a. m. (6148 kc.)
<b>Winnipeg—MANITOBA</b>			
VE9CL	5.710	52.51	
VE9CL	6.150	48.75	Jas. Richardson & Sons, Ltd. Daily, ex. Sun., 6 to 8:30 p. m. (6148 kc.)
VE9JR	11.720	25.58	Jas. Richardson & Sons, Ltd. Daily, ex. Sat., Sun., 11:45 a. m. to 1:30 p. m.; 5:30 to 7:30 p. m.
<b>St. John—NEW BRUNSWICK</b>			
VE9BJ	6.090	49.23	C. A. Munro, Ltd. Relays CFBO (60207)
<b>Glace Bay—NOVA SCOTIA</b>			
VBS	8.400	35.69	
VAS	10.700	28.02	7 a. m. to 4 p. m.
<b>Halifax</b>			
VE9HX	6.050	49.56	Wm. C. Borrett (6100 kc.?). 6 to 10 p. m. Tues., Thur., Fri.; 8 to 9 p. m. Wed.; 6:30 to 8:15 p. m. Sunday.
VE9HX	6.050	49.56	Relays CHNS Mon. Tues. 6 to 10 p. m. Other days, 6 to 7 p. m.
CFH	9.030	33.20	
<b>Wolfville</b>			
VE9CX	6.015	48.85	Acadia University.
<b>Bowmanville—ONTARIO</b>			
VE9GW	6.092	49.22	Goederham & Worts, Ltd., Toronto. Sunday, 12:30 p. m. to 6 p. m.; Weekdays, 4 to 10 p. m.
VE9GW	24.380	12.30	
<b>London</b>			
VE9CI	2.735	109.60	Sun., 11 a. m. to 7 p. m. Daily, 9 to 11 p. m.
VE9BY	4.792	62.56	Saturday midnight on.
VE9BY	6.426	46.67	Wed., 8:30 to 9:30 p. m.; Fri., 7 to 7:55 a. m.; Sat., 8 to 11 p. m.
VE9BY	8.645	34.68	Monday, 3 to 4 p. m. and irregular times.
<b>Toronto</b>			
VE9RM	2.004	149.80	
<b>Charlottetown—PRINCE EDWARD ISLAND</b>			
VE9EH	6.080	49.31	Island Radio Broadcasting Co., Ltd.

Call	Megs.	Meters	City
<b>Drummondville—QUEBEC</b>			
CGA	4.782	62.70	Phones to ships irregularly.
VE9DR	6.005	49.93	Canadian Marconi Co.
Montreal.	Relays	CFCP,	7 p. m. to midnight.
VE9AP	6.335	47.33	
CFA	6.840	43.83	
CGA	9.340	32.10	6 p. m. to 6 a. m. (9330 or 9335 kc.)
VE9DR	9.555	31.37	Canadian Marconi Co., Montreal.
CGA	13.296	22.55	Tests with GBB Rugby Eng.
VE9DR	11.780	25.44	Canadian Marconi Co., Montreal.
CGA	18.170	16.50	Irregular. Telephony to England.
<b>Montreal</b>			
VE9OS	2.100	142.80	
VE9AF	2.850	105.20	
VE9DN	6.005	49.93	Canadian Marconi Co., Montreal.
VE9BA	6.130	48.91	Canadian National Railways.
VE9DN	9.580	30.44	Canadian Marconi Co.
VE9BA	11.705	25.62	Canadian National Railways.
VE9DN	11.895	25.20	Canadian Marconi Co.
VE9BA	15.190	19.73	Canadian National Railways.
<b>Saskatoon—SASKATCHEWAN</b>			
VE9AR	2.850	105.20	
VE9AR	3.030	98.95	
<b>St. Johns—NEWFOUNDLAND</b>			
VO8Z	6.800	44.09	

## The Month's Changes

### POWER

810	WCCO	Minneapolis, Minn., 5000 to 50000
1050	KNX	Hollywood, Cal., 5000 to 25000
1130	KSL	Salt Lake City, Utah, 5000 to 50000
1380	KSO	Clarinda, Iowa, 500 to 100

### OWNERS

910	XEW	Mexico City, to Cadena Radio-difusora Mexicana S. A.
1210	WCBS	Springfield, Ill., to WCBS, Inc.
1370	WGLC	Glens Falls, N. Y., to O. T. Griffin and G. F. Bissell
1500	KPJM	Prescott, Ariz., to Scott & Sturm

### NEW

790	CMJK	Camaguey, Cuba
960	YV1BC	Caracas, Venezuela
1210	WGNV	Chester Twp., N. Y.

### DELETED

1210	WMRJ	Jamaica, N. Y.
1230	WPSC	State College, Pa.

### LOCATION

1010	KGGF	Coffeyville, Kans., from S. Coffeyville, Okla.
1270	WESG	Elmira, N. Y., from Ithaca, N. Y.

### FREQUENCY

1270	CMJN	Camaguey, Cuba, from 1240
1365	CMCW	Havana, Cuba, from 1325

### PERMIT TO CHANGE LOCATION

1310	WKBB	Joliet, Ill., to E. Dubuque, Ill.
1350	WEHC	Emory, Va., to Charlottesville, Va.
1370	WGLC	Glens Falls, N. Y., to Hudson Falls, N. Y.
1380	KSO	Clarinda, Iowa, to Des Moines, Iowa

### PERMIT TO CHANGE FREQUENCY

1310	WKBB	Joliet, Ill., to 1500
1380	KSO	Clarinda, Iowa, to 1370

### CHAINS

1380	KSO	Clarinda, Iowa, new NBC
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## STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY ACT OF CONGRESS OF AUGUST 24, 1912

Of Radio Index, published monthly except July and August, at Cleveland, Ohio, for October 1, 1932.  
State of Ohio  
County of Cuyahoga } ss.

Before me, a notary public in and for the State and county aforesaid, personally appeared Fred C. Butler, who, having been duly sworn according to law, deposes and says that he is the Editor and Publisher of the Radio Index, and that the following is to the best of his knowledge and belief, a true statement of the ownership, management, etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in section 411, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor managing editor, and business managers are:  
Publisher, Fred C. Butler, 5005 Euclid Ave., Cleveland, O.  
Editor, Fred C. Butler, 5005 Euclid Ave., Cleveland, O.  
Managing Editor, none.  
Business Manager, none.

2. That the owner is: (If owned by a corporation, its name and address must be stated and also immediately thereunder the names and addresses of stockholders owning or holding one per cent or more of total amount of stock. If not owned by a corporation, the names and addresses of the individual owners must be given. If owned by a firm, company, or other unincorporated concern, its name and address, as well as those of each individual member, must be given.)

The Radex Press, Inc., 5005 Euclid Ave., Cleveland, O.  
Fred C. Butler, 5005 Euclid Ave., Cleveland, Ohio.

3. That the known bondholders, mortgagees and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: (If there are none so state.) None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities than as so stated by him.

5. That the average number of copies of each issue of this publication sold or distributed through the mails or otherwise, to paid subscribers during the six months preceding the date shown above is. (This information is required from daily publications only.)

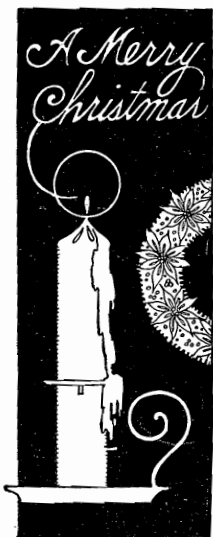
Fred C. Butler.

Sworn to and subscribed before me this 1st day of April, 1932.

[Seal] H. S. Craige.  
(My commission expires April 13, 1933.)

"I received the Time Converter just in time to get 4QG, Brisbane, Australia, Friday morning, October 28th, the very first morning after I received the Converter. It surely is a handy arrangement."

—Philip R. Nichols, East Hartford, Conn.



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*Sometimes I think there ought to be a law to make everyone do a little studying every week. I didn't think that a year ago because it looked like all the cards were stacked against me. But I am certainly rolling in the money now. Maybe my story will show you the way to larger earnings also.*

# I Thought Radio Was a Plaything

**But Now My Eyes Are Opened, and I'm Making Over \$75.00 a Week!**

**\$50 a week!** Man alive, a year ago I thought anyone making that much was just plain lucky.

Twelve months ago I was just barely getting by. It was the same old story—a little job; a salary as small as the job.

If you had told me that twelve months later I would be making \$75 a week in my own Radio business—I'd thought you were crazy.

But I am getting ahead of my story—let me tell you how it all started. I was hard up a year ago because I had been kidding myself—that's all—not because I had to be. I thought a fellow either had to be lucky or have a string of college degrees a half a mile long to make good money.

One day I picked up a magazine and the headline of an ad attracted me because it seemed to fit my case. It said, "I will show you how to start a spare time or full time Radio business of your own WITHOUT CAPITAL."

"They're trying to kid somebody," I thought, "but I'll find out what it is all about anyway."

I wrote in and within a few days received a 64-page book telling about the opportunities in Radio, how I could prepare right at home in my spare time, and how they would show me how to start making money in my neighborhood selling and repairing Radio sets. It would probably have sounded too good to be true if the promises had not been backed up by 100 letters from fellows who had taken their course and were very enthusiastic about it.

What has happened since seems almost like a dream to me now. I took their course and in about a month I was ready to start making money in my neighborhood—as much as \$5 and \$15 a week. It wasn't long until I had saved enough money to start a little business of my own.

That business has since grown to the point where I am clearing an average of \$75 a week. All this took place under the watchful guidance of my friends at the National Radio Institute. They also offered to train me for other lines—in case I wasn't interested in having my own business. Broadcasting stations, Radio Manufacturers, Operating on Board Ship, Servicing Sets, Aircraft Radio, Television and Talking Movies

are other fields their training covers. And to think, until the day I wrote for that book, I'd been wailing, "I have never had a chance—will never have one because I have no pull and have never had the advantage of a good education!"

Friend—you may not be as bad off as I was—but think it over—are you satisfied? Are you making as much money as you need? Would you sign a contract to stay where you are for the next ten years at the same salary? Those are the things you have to think about—because no one is going to make it his business to push you ahead—you must make it your own business.

Take my tip—write for their book. It won't cost you anything—only a three-cent stamp. It shows you a lot of things which I don't believe you know now—a lot of facts and figures on the opportunities in this new, fast-growing field. Where the jobs are, what they pay, how to get ready for one. Beginners as well as experienced men are making as much as \$1,000 to \$2,000 a year more as a result of N. R. I. training. You place yourself under no obligation because the book is free and is gladly sent to anyone who is ambitious and wants to get ahead. Just address J. E. Smith, President National Radio Institute, Dept. 2NO, Washington, D. C.

**J. E. Smith, President,  
National Radio Institute,  
Dept. 2NO, Washington, D. C.**

Dear Mr. Smith: Send me your free book, "Rich Rewards in Radio," which points out the opportunities for spare time and full time jobs in Radio and your famous 50-50 method of training men to become Radio Experts through home study. I understand this request places me under no obligation.

Name .....

Address .....

City..... State.....