

NEW STATION LIST WITH  
LATEST RADIO COMMISSION CHANGES

*Stevenson's*  
BULLETIN OF

**RADIO**  
BROADCASTING  
STATIONS



IN THIS ISSUE

- NEW BROADCASTING STATION LOG
- NEW LIST OF ALL NORTH AMERICAN  
BROADCASTING STATIONS
- CHART OF AIR LINE DISTANCES  
BETWEEN CITIES
- OPERATING TIME OF BROADCASTING  
STATIONS

WINTER, 1927

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# STEVENSON'S BULLETIN OF RADIO BROADCASTING STATIONS

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# Stevenson's Provides Complete Service

*EACH issue contains list of all North American Broadcasting stations; air line mileage chart, broadcasting station log and editorial review of outstanding radio developments.*

**W**OULD you like to receive regularly a corrected Broadcasting Station Log which would enable you to:

Determine at a glance which stations you should be able to get with your radio receiver.

Determine at a glance just where these stations should come in on your dials.

This is exactly what you can do with the Broadcasting Log which begins on Page 49 of this issue of STEVENSON'S. And on Page 48 you are told how to do it.

STEVENSON'S is published quarterly. Each issue contains a

revised Broadcasting Station Log with all Federal Radio Commission changes, in addition to these features:

An air mileage chart giving distances between principal cities of the United States.

Operating hours or time on the air of the larger broadcasting stations.

An alphabetical list of places in North America having broadcasting stations.

Editorial summary of important developments in the broadcasting field with a review of activities of the Federal Radio Commission.

**ON SALE AT ALL NEWS STANDS—**

**\$1.00 THE YEAR BY SUBSCRIPTION**

# Fading May be Calculated in Advance

*TESTS by Bureau of Standards Radio Laboratory reveal a degree of regularity in fading for any particular place; use of high power does not affect characteristics of fading.*

HIGHER power by broadcasting stations does not affect the characteristics of fading, although the signals sent out with higher power do not so frequently fall below audibility, recent tests by the U. S. Bureau of Standards Radio Laboratory reveal.

Fading is the frequent bane to reception of distant programs. The program will come in strong, then gradually fade out, later coming in strong again. Scientists are trying to find a way to counteract fading.

There is a degree of regularity in fading not hitherto suspected. The average night fading for any particular place apparently can be predetermined, even though the fading varies from instant to instant in wholly erratic fashion.

Fading is at its worst about 60 to 125 miles from a broadcasting station; at greater distances it diminishes, but then increases again with distance and has repeated maximums and minimums for greater distances. There are two

readily distinguishable kinds of fading, a fairly slow and a relatively rapid fluctuation.

There is a regular kind of fading which sometimes occurs during the 45 minutes just following sunset.

Fading is not connected with weather conditions in any way, so far as could be learned, nor is it similar at two receiving points close together, nor for the same station at different times.

This last fact proves that the cause of fading is not associated with the transmitting or receiving locality, and that it must, therefore, be in the medium between.

This leads to a theory which explains fading and which is being widely accepted and used to explain other phenomena viz, daylight propagation of radio waves along the earth, and nighttime propagation along the Kennelly-Heaviside layer, free from ground absorption.

According to this theory, fading is due to irregular absorption in the ionized upper atmosphere.

# Distant Programs Spoiled by Station Heterodynes

**P**RESENT wave length assignments by Federal Radio Commission responsible for whistles which impair program quality for distant listeners; too many broadcasting stations is the cause.

**W**AVE length assignments by the Federal Radio Commission are resulting in stations heterodyning each other.

When a broadcasting station sends out a program, there is a certain area around the station within which it can be received. But beyond the area where reception of the program is possible, there is a whistle or beat-note.

Most listeners know of cases when they are able to get the whistle of a station without being able to bring in its program. This whistle extends far beyond the area where the program can be received.

Radio engineers say that because of the whistle, it is inadvisable to assign the same wave length to broadcasting stations of over 500 watts power for simultaneous operation unless they are thousands of miles apart.

To accommodate nearly 700 broadcasting stations on 90 wave lengths, the Commission assigned the same wave length to stations

of over 500 watts without the proper distance separation.

Heterodyning is the result. Within a certain radius of the station, the volume is sufficient to overcome the whistles of other stations using the same wave. But at a distance from the station the program is spoiled because the signals are too weak to offset the whistles.

When radio regulation was in the Department of Commerce, broadcasting channels were divided into two bands—A and B.

Class B wave lengths, or the band between 280 and 545 meters, were assigned to high grade stations. Class A wave lengths, or the band between 200 and 280 meters, were assigned to second grade stations.

Duplication of waves was not permitted in the class B band, except when the stations were separated by the entire country. In the class A band, many stations were assigned the same wave for simultaneous operation and their power kept low to avoid interference.

# Coast-to-Coast Reception of Radio Programs Expected

**C**HAIRMAN of Federal Radio Commission predicts wave length channels gradually will be cleared of heterodyning and interference so that programs may be heard from Atlantic to Pacific.

By WILLIAM H. G. BULLARD  
*Chairman, Federal Radio Commission*

**B**ROADCASTING STATIONS are rendering and will continue to render many different types of service. Some of them, although primarily engaged in giving dependable program service within their normally effective radius of a hundred miles or so, are able under favorable conditions to reach far afield.

It is to such great stations, with their high power and highly developed program service, that the long-distance listener turns, and because long-distance listening is a vitally important part of radio reception, it is essential that such stations should be as free as possible from the interference caused by heterodyning.

One by one the frequencies used by such stations are actually being cleared, not simply by action on the part of the Commission, but by the fact that smaller stations have no desire to create ill-will for themselves by interfering with the

best type of long distance reception.

This process is one for normal growth, not for arbitrary rulings. As stations themselves develop their program service in the public interest, and their mechanical equipment with power adequate for the best transmission of these programs, the roads are being cleared for them.

The Commission is looking forward to the time when the listener, on any night of good reception, can hear broadcasting stations from the Atlantic to the Pacific, from Canada to Mexico, without interference, on channels cleared for them, not by arbitrary rulings of the Government, not by fixed and necessarily discriminating classifications, but by the normal, logical process of demonstrated fitness and capacity to render a great public service.

Such a development is entirely

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# Heterodyning Might Have Been Prevented

**O**UTSTANDING authority on radio communications says a few wave lengths should have been set aside for second raters, leaving rest of broadcasting band free for high-class stations.

**H**ETERODYNING on most broadcasting channels might have been prevented if the Federal Radio Commission had followed the recommendation of Judge Stephen Davis.

Judge Davis is an outstanding authority on radio. For three years he served as Solicitor of the Department of Commerce and had charge of radio regulation. He is author of "The Law of Radio Communication."

One of the worst types of interference at present, Judge Davis says, occurs when two stations operate on the same frequency or on frequencies not sufficiently separated, considering their radiating powers and relative distances from the listener.

If the same frequency is used and each of the stations is within the range of audibility, the receiving set brings in the program of each simultaneously, and the resulting cross-talk is the same as the occasional double conversation heard on a telephone line.

If the stations are using prac-

tically the same frequency, the result may be a whistle-like sound in the receiver which is called a heterodyne note.

The Commission should have used most of the broadcasting band for high grade stations and assigned them wave lengths free from the whistles of second raters, Judge Davis believes.

"It seems to me," says Judge Davis, "that the Commission might very well set aside a few wave lengths which could be assigned to second rate stations, thus leaving the rest of the broadcasting band free for high class stations.

"There would be a certain amount of justice in that. If a station does not measure up from the viewpoint of public service, on what theory should it have an equal place in the sun with the station that does so measure up?"

The value of the station could be determined, Judge Davis suggests, by its physical character, the intelligibility of its messages, the extent of its audience and a dozen other factors.

# Advertisers Responsible for Program Quality

**C**OMMERCIAL sponsorship of programs has made possible the maintenance of gigantic broadcasting structure without cost to the public other than investment in receiving equipment.

By THOMAS STEVENSON

**I**DEALISTS are looking with disfavor on the growing tendency of broadcasting stations to commercialize their programs.

They dislike to see the air utilized for selling merchandise. Commercialism, they say, is always followed by a certain selfishness that brooks no interference with its plans.

There are two forms of radio advertising—direct and indirect.

Direct advertising consists of making a direct appeal to the public to purchase this or that article, frequently quoting the price thereof. Direct advertising is repugnant to almost everybody except those who benefit by it.

Indirect advertising is something different. Its objective is good will which is sought through sponsorship of programs.

By contributing to the expense of broadcasting, indirect advertising has made possible the maintenance of a great service without cost to the public beyond investment in a receiving set.

Broadcasting programs probably would not have reached their present quality without commercial sponsorship. The indirect advertiser realizes that if he is to reap the desired harvest of good will, he must put on a program worthy of it.

The almost universal desire to broadcast today springs from the desire to advertise. It is an age of publicity and advertising.

There is nothing incongruous about it and nothing shocking. Probably everyone who reads a national magazine or buys a newspaper replete with the latest telegraphic reports form all over the world does not stop to consider that his purchase price is only a fraction of the publisher's cost and he may not know that the advertisers make up the difference. There can be no misunderstanding about a commercial broadcast program because the announcer always states frankly the name of the advertiser who sponsors it.



# Television May be Achieved Soon

*RESEARCH laboratories throughout world seeking means to see as well as hear by radio; television sets within means of average pocketbook may be expected within next few years.*

**T**ECHNICAL research laboratories throughout the world are in a frantic race to achieve the next big invention of the Twentieth Century.

Television, that is, the ability to see as well as hear by radio, is the thing they seek. The race has been on for twenty-five years, and is at present at its maximum effort. Fabulous wealth awaits the organization that is able to put on the market a television set within the means of the average pocket-book.

It seems almost certain that television is just over the horizon. Perhaps it is nearer than most people suspect.

Considerable progress has been made already in television experiments. Last April, the Bell Telephone Laboratories demonstrated in New York the first practically perfect reproductions of the living image.

Herbert Hoover, at the Washington end of a telephone circuit, was seen and heard in New York

as he talked. Changes in facial expression were faithfully reproduced.

"Marvelous, perfect," exclaimed those who saw the demonstration.

"But it can be made much better than this," Bell Telephone experts declared.

The idea of television is to connect two mirrors electrically by radio or wire so that one will reproduce what is reflected on the other and vice versa. To a large extent this has been accomplished. Here is how it is done:

A concentrated light-beam from an arc lamp is caused to sweep across the face in a series of small spots at the rate of 900 light-flashes per second.

The light from the arc is concentrated through a condensing lens upon the back of a rotating perforated disk. There are fifty small holes drilled through the disk, these being laid out in a spiral. As the disk rotates, a pencil of light passes through the

(Please turn to page 47)

# Radio Law Does Not Authorize Station Reduction

**R**ADIO COMMISSIONER says Commission appreciates that heterodyning and interference are resulting from assignment of wave lengths, but that it was necessary in order to crowd in 700 broadcasters.

By ORESTES H. CALDWELL

*Federal Radio Commissioner from New York.*

**E**VEN under best conditions we have far too many stations to accommodate on 89 wave lengths. As long as 700 stations are to be assigned places in the broadcasting band, there are bound to be heterodynes, for the Commission, against its better judgment, has been forced to locate stations too close together to avoid interference under conditions of maximum reception.

"Why doesn't the Commission simply shut down 300 or 400 of the unnecessary stations now on the air?" I suppose someone is asking. The answer is that these 300 or 400 stations cannot be shut down summarily by refusing them licenses or revoking their permits to operate, even though that would be so manifest in the public interest.

For a careful reading of the Radio Law of 1927 will show that that Act gives to the Commission no power to close down a single station which was licensed and

operating prior to February 23, 1927.

Licenses can be revoked in the case of stations which disobey the provisions of the law or the regulations of the Commission, but any easy method of providing needed relief for the listeners by simply wiping out a lot of the less desirable stations, has not been legally possible.

With this avenue of relief closed, the Commission has therefore so far worked out its solution along the line of duplication of waves and enforced time-sharing, making assignments on the basis of stations' demonstrated past performance in serving the public. Even further sharing of time by stations will be imperative, it now appears.

We believe that through the operation of natural economic laws and the necessity for stations to live up to regulations of the Commission that a sufficient number of broadcasters will drop out.

# New Sense Being Developed by Radio Listeners

*ABILITY to see as well as hear through the ears is gradually being acquired through operation of natural psychological laws; continued broadcasting of radio dramas responsible for this development.*

By THOMAS STEVENSON

ARE you bored by radio dramas? Perhaps it is because you lack imagination, the power to visualize without being able to see.

But it may be cultivated! Perhaps, unconsciously, you are developing this new sense.

Radio listeners are like blind people who must depend on their ears for the things they see. Through operation of natural psychological laws, listeners are slowly acquiring the ability to imagine the things that formerly were supplied by sight.

Broadcasting of the radio drama is contributing to this development. The purpose of the drama, as against music, is to tell a story, to weave a spell. Unlike a concert that can be enjoyed as well with eyes closed, the audience both hears and sees a play in the theater and sees far more than is generally realized.

In fact, just how much of the play is seen cannot be appreciated

until it becomes necessary merely to hear it, as in the case of radio dramas. Then, absence of the part seen throws such a heavy burden on the part heard that the illusion created is unconvincing.

But as more plays are heard, absence of the part seen becomes less and less important until simply hearing the play proves as convincing as both seeing and hearing.

This is a change that is taking place through continued broadcasting of radio dramas.

## NO SUCH THING AS "ETHER"

One of the mistakes most frequently made by writers and others in connection with radio is designation of the space through which broadcast signals pass as the "ether."

Most scientists do not recognize existence of the ether. Einstein, in his theory of relativity, offers more or less definite proof of its non-existence.

# Radio Beacons

## Contributing to Airplane Safety

*ERECTOR of radio beacons, marker beacons and radio telephone stations to minimize accidents by keeping aviator on true course and supplying him with information about weather, landing fields and his position.*

**R**ADIO beacons are contributing more to the development of aviation than any other single factor.

Many aircraft accidents are due to planes getting lost or not being able to find a suitable landing place when something goes wrong.

Present plans of the Department of Commerce call for erection of radio beacons across the United States for directing aircraft.

These beacons send out two directed radio beams. On each there continuously goes out a characteristic signal. The airplane, when equipped with an ordinary receiving set, if traveling at equal distances from the lines set up by these radio beams will receive signals of equal intensity from each; off the well-defined path there is an equality of signals and the pilot is able to correct his course until the signals are equalized.

In addition, market beacons are to be established at 25-mile intervals along the 8,234 miles of air-

ways to serve as mileposts to aviators, indicating the distance already traveled and how many miles to be traveled before the destination is reached. These marker beacons do not overlap the function of the directive beacon since the former do not define the course of flight.

Instead, these very low-power radio transmitting stations will flash a characteristic signal and upon being intercepted by the aviator, he is automatically informed of his location.

Radio telephone stations, located at 200-mile intervals will serve as mediums for imparting weather forecasts, information about landing fields, and other navigational facts to aircraft in flight.

Dr. J. H. Dellinger, chief of the Radio Laboratory of the Bureau of Standards, who is directing construction of the radio aids to navigation, believes they will make flying sufficiently safe for its use on a vast commercial scale.

## AMERICAN BROADCASTING STATIONS

Station	Meters	Kilo-cycles	Watts	Location and Owner
KDKA	315.6	950	50000	Pittsburgh, Pa.-----W. E. and M. Co.
KDLR	230.6	1300	15	Devils Lake, N. D.-----Radio Elec. Co.
KDYL	258.5	1160	100	Salt Lake City, Utah.----Int. B'casting Co.
KELW	228.9	1310	250	Burbank, Calif.-----E. L. White
KEEX	239.9	1250	2500	Portland, Ore.-----Western B'casting Co.
KFAB	309.1	970	2000	Lincoln, Neb.-----Neb. Buick Auto Co.
KFAD	272.6	1100	500	Phoenix, Ariz.-----Elec. Equip. Co.
KFAU	285.5	1050	2000	Boise, Idaho.-----Ind. School District
KFBB	275.1	1090	50	Havre, Mont.-----F. A. Buttrey Co.
KFBC	247.8	1210	100	San Diego, Calif.-----Dr. Arthur
KFBK	535.4	560	100	Sacramento, Calif.----Kinball Upson Co.
KFBL	223.7	1340	50	Everett, Wash.-----Leese Bros.
KFBU	428.3	700	500	Laramie, Wyo.-----Bishop N. S. Thomas
KFCB	243.8	1230	125	Phoenix, Ariz.-----Neilson Radio Co.
KFCR	211.1	1420	50	Santa Barbara, Calif.----S. B. B'cast. Co.
KFDM	483.6	620	500	Beaumont, Texas.-----Magnolia Pet. Co.
KFDX	236.1	1270	250	Shreveport, La.-----First Baptist Church
KFDY	394.5	760	500	Brookings, S. D.-----State Col. of Agri.
KFDC	215.7	1390	10	Minneapolis, Minn.-----H. O. Iverson
KFEC	214.2	1400	50	Portland, Ore.-----Meier & Frank Co.
KFEL	247.8	1210	250	Denver, Colo.-----E. P. O'Fallon
KFEQ	230.6	1300	1000	St. Joseph, Mo.-----Scroggin & Co.
KFEY	232.4	1290	10	Kellogg, Idaho.-----Union High School
KFGQ	209.7	1430	10	Boone, Iowa.-----Biblical College
KFH	245.8	1220	500	Wichita, Kans.-----Hotel Lassen
KFHA	254.1	1180	50	Gunnison, Colo.----Western State College
KFHL	212.6	1410	10	Oskaloosa, Iowa.-----Penn College
KFI	468.5	640	5000	Los Angeles, Calif.----E. C. Anthony, Inc.
KFIF	214.2	1400	50	Portland, Ore.-----Benson Institute
KFIO	245.8	1220	100	Spokane, Wash.---N. Central High School
KFIU	225.4	1330	10	Juneau, Alaska.-----Alaska Elec. Co.
KFIZ	267.7	1120	100	Fond lu Lac, Wisc.---Daily Commonwealth
KFJB	247.8	1210	100	Marshalltown, Iowa---Marshall Elec. Co.
KFJF	272.6	1100	750	Oklahoma, Okla.----National Radio Co.
KFJI	249.9	1200	15	Astoria, Oregon.-----E. E. Marsh
KFJM	333.1	900	100	Grand Forks, N. D.----University of N. D.
KFJR	282.8	1060	100	Portland, Oregon.-----A. C. Dixon & Son
KFJY	232.4	1290	100	Ft. Dodge, Iowa.-----C. S. Tunwall
KFJZ	249.9	1200	50	Ft. Worth, Texas.-----W. E. Branch

Station	Meters	K. C.	Watts	Location and Owner
KFKA	545.1	550	200	Greeley, Colo.----State Teachers College
KFKB	241.8	1240	1500	Milford, Kans.-----Dr. J. R. Brinkley
KFKU	254.1	1180	500	Lawrence, Kans.-----University of Kans.
KFKX	526	570	2500	Hastings, Nebr.-----W. E. and M. Co.
KFKZ	225.4	1330	15	Kirksville, Mo.----State Teachers College
KFLV	267.7	1120	100	Rockford, Ill.---Swedish Evangelist Church
KFLX	270.1	1110	100	Galveston, Texas-----George R. Clough
KFMR	232.4	1290	100	Sioux City, Iowa-----Morningside College
KFMX	236.1	1270	500	Northfield, Minn.-----Carleton College
KFNF	461.3	650	2000	Shenandoah, Iowa---Henry Field Seed Co.
KFOA	447.5	670	1000	Seattle, Wash.-----Rhodes Co.
KFON	241.8	1240	500	Long Beach, Calif.-----Warinner, Inc.
KFOR	217.3	1380	100	Lincoln, Nebr.-----Howard A. Shuman
KFOX	258.5	1160	100	Omaha, Nebr.-----Tech. High School
KFOY	285.5	1050	250	St. Paul, Minn.-----M. G. Goldberg
KFPL	275.1	1090	15	Dublin, Texas.-----C. C. Baxter
KFPM	230.6	1300	15	Greenville, Texas-----New Furn. Co.
KFPR	232.4	1290	250	Los Angeles, Calif.-----Forestry Dept.
KFPW	263	1140	50	Carterville, Mo.-----L. W. Stewart
KFPY	245.8	1220	250	Spokane, Wash.----Symonds Invest. Co.
KFQA	247.8	1210	50	St. Louis, Mo.-----The Principa.
KFQB	333.1	900	1000	Ft. Worth, Texas---Lone Star B'cast. Co.
KFQD	344.6	870	100	Anchorage, Alaska-----Radio Club
KFQU	249.9	1200	100	Holy City, Calif.-----W. E. Riker
KFQW	217.3	1380	100	Seattle, Wash.-----C. F. Knierim
KFQZ	232.4	1290	100	Hollywood, Calif.-----Taft Prod. Co.
KFRC	454.3	660	1000	San Francisco, Calif.-----Don Lee, Inc.
KFRU	249.9	1200	500	Columbia, Mo.-----Stephens College
KFSD	440.9	680	500	San Diego, Calif.-----Airfan Radio Corp.
KFSG	275.1	1090	500	Los Angeles, Calif.-----Evang. Ass'n
KFUL	258.5	1160	500	Galveston, Tex.-----Goggan & Bros.
KFUM	282.8	1060	1000	Colorado Springs, Colo.----W. D. Corley
KFUO	342.2	1280	1000	St. Louis, Mo.---Concordia Theo. Seminary

### A CHRISTMAS SUGGESTION

A yearly subscription to STEVENSON'S makes a fine Christmas present, for it greatly increases radio enjoyment. Why not take advantage of our special Christmas rate—6 yearly subscriptions for \$5—in remembering your friends?

Station	Meters	K. C.	Watts	Location and Owner
KFUP	227.1	1320	100	Denver, Colo.---Fitzsimmons Gen. Hospital
KFUR	225.4	1330	500	Ogden, Utah-----Peery Bldg. Co.
KFUS	256.3	1170	50	Oakland, Calif.-----L. L. Sherman
KFUT	499.7	600	50	Salt Lake City, Utah---University of Utah
KFVD	208.2	1440	250	Venice, Calif.-----C. & W. J. McWhinnie
KFVE	234.2	1280	1000	St. Louis, Mo.-----B'casting Corp.
KFVG	225.4	1330	50	Independence, Kans.---First M. E. Church
KFVI	238	1260	50	Houston, Texas---56th Cavalry Brigade
KFVS	223.7	1340	50	Cape Girardeau, Mo.---Battery Station
KFWB	361.2	830	500	Los Angeles, Calif.-----Warner Bros.
KFWC	222.1	1350	100	San Bernardino, Calif.-----L. E. Wall
KFWF	214.2	1400	250	St. Louis, Mo.-----Truth Center
KFWI	267.7	1120	500	San Francisco, Calif.---Radio Ent., Inc.
KFWM	236.1	1270	500	Oakland, Calif.-----Educational Society
KFVW	299.8	1000	250	Avalon, Calif.-----Lawrence Mott
KFXD	204	1470	15	Jerome, Idaho-----Service Radio Co.
KFXF	282.8	1060	250	Denver, Colo.---Pikes Peak B'casting Co.
KFXJ	215.7	1390	50	Edgewater, Colo.-----R. G. Howell
KFXR	223.7	1340	50	Okla. City, Okla.-----Baptist Church
KFXY	205.4	1460	25	Flagstaff, Ariz.-----M. M. Costigan
KFYF	238	1260	25	Oxnard, Calif.-----Carl's Radio Den
KFYO	211.1	1420	15	Breckenridge, Texas---Kirksey Bros. Co.
KFYR	249.9	1200	250	Bismarck, N. D.-----Hoskins-Meyer
KG A	260.7	1150	2000	Spokane, Wash.---Northwest Radio Service
KGAR	234.2	1280	100	Tucson, Ariz.-----Tucson Citizen
KGBS	202.6	1480	100	Seattle, Wash.-----A. O. Dalley
KGBU	228.9	1310	500	Ketchikan, Alaska---Alaska Radio Serv. Co.
KGBX	288.3	1040	100	St. Joseph, Mo.-----Foster Hall Co.
KGBY	202.6	1480	50	Columbus, Nebr.-----Thelen & Taddiken
KGBZ	212.6	1410	100	York, Nebr.-----Livestock Remedy Co.
KGCA	247.8	1210	10	Decorah, Iowa-----C. W. Greenley
KGCB	215.7	1390	50	Oklahoma City, Okla.---Wallace Radio Int.
KGCH	293.9	1020	250	Wayne, Nebr.-----Dr. S. A. Lutgen
KGCI	220.4	1360	15	San Antonio, Texas---Liberto Radio Sales
KGCL	230.6	1300	50	Seattle, Wash.-----Louis Wasmer
KGCN	208.2	1440	50	Concordia, Kans.---Concordia B'cast. Co.
KGCR	208.2	1440	15	Brookings, S. D.---Cutler's B'casting Co.
KGCU	239.9	1250	100	Mandan, N. D.-----Mandan Radio Ass'n
KG CX	243.8	1230	10	Vida, Mont.-----First State Bank
KGDA	254.1	1180	15	Dell Rapids, S. D.-----Home Auto Co.
KGDE	205.4	1460	50	Barrett, Minn.-----Jaren Drug Co.

Station	Meters	K. C.	Watts	Location and Owner
KGDJ	202.6	1480	10	Cresco, Iowa.....R. Rathert
KGDM	217.3	1380	10	Stockton, Calif.....E. F. Peffer
KGDP	223.7	1340	10	Pueblo, Colo.....Boy Scouts
KGDR	202.6	1480	15	San Antonio, Texas.....Joe B. McShane
KGDW	206.8	1450	100	Humboldt, Nebr.....F. R. Rist
KGDY	212.6	1410	250	Shreveport, La.....W. E. Anthony
KGEF	206.8	1450	15	Oldham, S. D.....J. A. Loesch
KGEH	263	1140	500	Los Angeles, Calif...Trinity Meth. Church
KGEI	201.2	1490	50	Eugene, Oregon...Eugene B'cast. Station
KGEK	263	1140	10	Yuma, Colo.....Beehler Elec. Equip. Co.
KGEN	225.4	1330	15	El Centro, Calif.....F. M. Bowles
KGEO	205.4	1460	100	Grand Island, Nebr.....Hotel Yancey
KGEQ	202.6	1480	50	Minneapolis, Minn.....F. W. Herrmann
KGER	215.7	1390	100	Long Beach, Calif.....C. M. Dobyns
KGEU	227.1	1320	50	Lower Lake, Calif.....L. W. Clement
KGEW	218.8	1370	100	Ft. Morgan, Colo....City of Ft. Morgan
KGEY	201.2	1490	250	Denver, Colo.....J. W. Dietz
KGEZ	205.4	1460	100	Kalispell, Mont...Flathead B'cast. Ass'n.
KGFB	223.7	1340	10	Iowa City, Iowa.....A. C. Dunkel
KGFF	205.4	1460	25	Alva, Okla.....E. E. Hampshire
KGFG	215.7	1390	50	Oklahoma, Okla....Full Gospel Church
KGFH	223.7	1340	250	La Crescenta, Calif.....F. Robinson
KGFI	220.4	1360	15	San Angelo, Texas.....M. L. Eaves
KGFJ	208.2	1440	100	Los Angeles, Calif.....B. S. McGlashan
KGFK	223.7	1340	50	Hallock, Minn.....Kittson Co. Ent. Co.
KGFL	222.1	1350	50	Trinidad, Colo.....N. L. Cotter
KGFM	211.1	1420	15	Yuba City, Calif.....G. W. Johnson
KGFN	199.9	1500	15	Aneta, N. D.....Haraldson & Thingstad
KGFO	204	1470	100	Portable.....Brant Radio Co.
KGFP	212.6	1410	10	Mitchell, S. D....Mitchell B'casting Co.
KGFW	296.9	1010	10	Ravenna, Nebr.....O. F. Sothman
KGFX	254.1	1180	200	Pierre, S. Dak.....Dana McNeil
KGGF	206.8	1450	100	Picher, Okla.....Dr. L. L. Connell
KGGH	212.6	1410	50	Cedar Grove, La.....Bates Co.

### DON'T MISS YOUR COPY

A new issue of STEVENSON'S will be on the news stands Feb. 1. It will contain, among other features, a new log and a revised list of all broadcasting stations, including Federal Radio Commission changes



Station	Meters	K. C.	Watts	Location and Owner
KGO	384.4	780	5000	Oakland, Calif.-----Gen. Elec. Co.
KGRC	220.4	1360	50	San Antonio, Tex.-----Gene Roth Co.
KGRS	243.8	1230	150	Amarillo, Texas.-----Gish Radio Service
KGTT	206.8	1450	50	San Francisco, Calif.---Glad Tidings Tab.
KGU	270.1	1110	600	Honolulu, Hawaii.-----M. A. Mulrony
KGW	491.5	610	1000	Portland, Oregon.-----The Oregonian
KGY	243.8	1230	50	Lacey, Wash.-----St. Martin's College
KHJ	416.4	720	500	Los Angeles, Calif.-----The Times
KHMC	236.1	1270	100	Harlingen, Tex.-----Harlingen Music Co.
KHQ	370.2	810	1000	Spokane, Wash.-----Louis Wasmer
KICK	322.4	930	100	Atlantic, Iowa.-----Atlantic Auto Co.
KJBS	220.4	1360	50	San Francisco, Calif.---Brunton & Sons Co.
KJR	348.6	860	2500	Seattle, Wash.-----Northwest Radio Co.
KKP	265.3	1130	15	Seattle, Wash.-----Harbor Dept.
KLCN	285.5	1050	50	Blytheville, Ark.-----Courier News
KLDS	270.1	1160	1500	Independence, Mo.---Reorganized Church
KLIT	206.8	1450	10	Portland, Oregon.-----L. I. Thompson
KLS	245.8	1220	250	Oakland, Calif.---Warner Bros. Radio Co.
KLX	508.2	590	500	Oakland, Calif.-----The Tribune
KLZ	267.7	1120	250	Denver, Colo.-----Reynolds Radio Co.
KMA	394.5	760	1000	Shenandoah, Ia.---May Seed & Nursery Co.
KMED	249.9	1200	50	Medford, Ore.-----W. J. Virgin
KMIC	223.7	1340	250	Inglewood, Calif.-----J. R. Fouch
KMJ	365.6	820	50	Fresno, Calif.-----Fresno Bee
KMMJ	285.5	1050	500	Clay Center, Nebr.----M. M. Johnson Co.
KMO	254.1	1180	250	Tacoma, Wash.-----KMO, Inc.
KMOX	299.8	1000	5000	St. Louis, Mo.-----Voice of St. Louis
KMTR	526	570	500	Hollywood, Calif.-----KMTR, Inc.
KNRC	374.8	800	500	Santa Monica, Calif.-----C. B. Juneau
KNX	336.9	890	500	Los Angeles, Calif.-----The Express
KOA	325.9	920	5000	Denver, Colo.-----General Electric Co.
KOAC	270.1	1110	500	Corvallis, Ore.-----Oregon Agri. Col.
KOB	394.5	760	5000	State College, N. M.-----State College
KOCH	258.5	1160	250	Omaha, Nebr.-----Omaha Central H. S.
KOCW	252	1190	250	Chickasha, Okla.---Okla. Col. for Women
KOIL	277.6	1080	2000	Council Bluffs, Iowa---Mona Motor Oil Co.
KOIN	319	940	1000	Portland, Ore.-----Koin, Inc.
KOMO	305.9	980	1000	Seattle, Wash.----Fisher's Blend Station
KOW	247.8	1210	250	Denver, Colo.-----Olinger Corp.
KOWW	299.8	1000	500	Walla Walla, Wash.----Frank A. Moore
KPCB	230.6	1300	50	Seattle, Wash.---Pacific Coast Biscuit Co.

Station	Meters	K. C.	Watts	Location and Owner
KPJM	214.2	1400	15	Prescott, Ariz.----Wilburn Radio Service
KPLA	252	1190	500	Los Angeles, Calif.---Pac. Dev. Radio Co.
KPNP	211.1	1420	100	Muscatine, Iowa-----Central Radio Co.
KPO	422.3	710	1000	San Francisco, Calif.-----Hale Brother
KPPC	228.9	1310	50	Pasadena, Calif.---Pasadena Pres. Church
KPRC	293.9	1020	500	Houston, Texas----Houston Printing Co.
KPSN	315.6	950	1000	Pasadena, Calif.----Pasadena Star News
KQV	270.1	1110	500	Pittsburgh, Pa.---Doubleday Hill Elec. Co.
KQW	296.9	1010	500	San Jose, Calif.----First Baptist Church
KRAC	220.4	1360	50	Shreveport, La.-----Caddo Radio Club
KRE	256.3	1170	100	Berkeley, Calif.---First Congressional Ch.
KRLD	461.3	650	500	Dallas, Texas-----KRLD, Inc.
KRLO	215.7	1390	250	Los Angeles, Calif.-Freeman, Lang & Scott
KRSC	211.1	1420	50	Seattle, Wash.-----Radio Sales Corp.
KSAC	333.1	900	500	Manhattan, Kans.---Kans. State Agri. Col.
KSBA	267.7	1120	1000	Shreveport, La.-----W. G. Patterson
KSCJ	243.8	1230	500	Sioux City, Iowa-----Perkins Bros. Co.
KSD	545.1	550	500	St. Louis, Mo.-----The Post-Dispatch
KSEI	333.1	900	250	Pocatello, Ida.---KSEI Broadcasting Ass'n.
KSL	302.8	990	1000	Salt Lake City, Utah---Radio Serv. Corp.
KSMR	272.6	1100	100	Santa Maria, Calif.-S. M. Valley R. R. Co.
KSO	227.1	1320	500	Clarinda, Iowa----A. A. Berry Seed Co.
KSOO	209.7	1430	250	Sioux Falls, S. D.---S. F. Br'dcasting Ass'n.
KTAB	280.2	1070	500	Oakland, Calif.---Associated Broadcasters
KTAP	228.9	1310	20	San Antonio, Texas-----R. B. Bridge
KTBI	288.3	1040	500	Los Angeles, Calif.---Bible Inst. Los Ang.
KTBR	282.8	1060	50	Portland, Oreg.-----Brown's Radio Shop
KTCL	277.6	1080	500	Seattle, Wash.---American Radio Tel. Co.
KTHS	384.4	780	1000	Hot Springs, Ark.---New Arlington Hotel
KTNT	256.3	1170	1000	Muscatine, Iowa-----N. Baker
KTSA	265.3	1130	2000	San Antonio, Texas---Alamo B'cast. Co.
KTUE	212.6	1410	5	Houston, Texas-----Uhalt Elec. Co.
KTW	394.5	760	1000	Seattle, Wash.-----First Pres. Church
KUJ	199.8	1500	10	Seattle, Wash.---Puget Sound B'cast. Co.
KUOA	296.9	1010	500	Fayetteville, Ark.-----Uni. of Arkansas
KUOM	461.3	650	500	Missoula, Mont.---State Univ. of Montana

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WANTED: Agents to sell subscriptions to STEVENSON'S BULLETIN OF RADIO BROADCASTING STATIONS. Write: STEVENSON'S 1220 H Street N. W., Washington, D. C.

Station	Meters	K. C.	Watts	Location and Owner
KUSD	483.6	620	250	Vermillion, S. D. University of S. Dak.
KUT	232.4	1290	500	Austin, Texas University of Texas
KVI	234.2	1280	50	Tacoma, Wash. Puget Sound B'cast. Co.
KVOO	348.6	860	1000	Bristow, Okla. Southwestern Sales Corp.
KVOS	209.7	1430	50	Seattle, Wash. L. Kessler
KWBS	199.8	1500	15	Portland, Oregon Schaeffer Radio Co.
KWCR	239.9	1250	250	Cedar Rapids, Iowa H. F. Parr
KWG	344.6	870	50	Stockton, Calif. Portable Wireless T. Co.
KWJJ	228.9	1310	50	Portland, Oregon Wilbur German
KWKC	222.1	1350	100	Kansas City, Mo. Wilson Duncan Studios
KWKH	394.5	760	1000	Shreveport, La. W. K. Henderson, I. W.
KWLC	247.8	1210	50	Decorah, Iowa Luther College
KWSC	394.5	760	500	Pullman, Wash. State College
KWTC	352.7	850	5	Santa Ana, Calif. J. W. Hancock
KWUC	243.8	1230	1500	Lemars, Iowa Western Union College
KWWG	277.6	1080	500	Brownsville, Tex. Chamber of Commerce
KXL	220.4	1360	50	Portland, Ore. KXL Broadcasters
KXRO	227.1	1320	50	Aberdeen, Wash. KXRO, Inc.
KYA	309.1	970	500	San Francisco, Calif. Pac. B'dcast. Corp.
KYW	526	570	2500	Chicago, Ill. Westinghouse, E. & M. Co.
KZM	245.8	1220	100	Oakland, Calif. P. D. Allen
WAAD	267.7	1120	25	Cincinnati, Ohio Ohio Mec. Institute
WAAF	389.4	770	500	Chicago, Ill. Drivers Journal
WAAM	348.6	860	500	Newark, N. J. WAAM, Inc.
WAAT	245.8	1220	300	Jersey City, N. J. F. V. Bremer
WAAW	499.7	600	500	Omaha, Nebr. Omaha Grain Exchange
WABC	325.9	920	2500	Richmond Hill, N. Y. Atlan. B'cast. Cor.
WABF	205.4	1460	250	Kingston, Pa. Markle B'dcast. Co.
WABI	389.4	770	100	Bangor, Maine First Universalist Church
WABO	277.6	1180	250	Rochester, N. Y. Lake Ave. Bap. Church
WABQ	223.7	1340	500	Philadelphia, Pa. Keystone B'dcast. Co.
WABW	247.8	1210	50	Wooster, Ohio College of Wooster
WABY	247.8	1210	50	Philadelphia, Pa. John Magaldi
WABZ	247.8	1210	50	New Orleans, La. Coliseum Pl. Bap. Ch.
WADC	296.9	1010	500	Akron, Ohio Allen T. Simmons
WAFD	230.6	1300	100	Detroit, Mich. Albert B. Parfet Co.
WAGM	225.4	1330	50	Royal Oak, Mich. R. L. Miller
WAIT	214.2	1400	10	Taunton, Mass. A. H. Waite & Co.
WAIU	282.8	1060	5000	Columbus, Ohio American Ins. Union
WALK	201.2	1490	50	Willow Grove, Pa. A. A. Walker
WAMD	225.4	1330	500	Minneapolis, Minn. Radisson Corp.

Station	Meters	K. C.	Watts	Location and Owner
WAPI	325.9	920	1000	Auburn, Ala.-----Ala. Polytechnic Inst.
WARS	227.1	1320	500	Brooklyn, N. Y.---Amateur Radio Spec. Co.
WASH	256.3	1170	250	Grand Rapids, Mich.----Baxter Launderers
WATT	201.2	1490	100	Boston, Mass.-----Edison Illum Co.
WBAA	272.6	1100	500	West Lafayette, Ind.---Purdue University
WBAK	299.8	1000	500	Harrisburg, Pa.-----Penn. State Police
WBAL	285.5	1050	5000	Baltimore, Md.-----Gas and Elec. Co.
WBAO	267.7	1120	100	Decatur, Ill.---James Millikin University
WBAP	499.7	600	1500	Ft. Worth, Tex.---Carter Publications, Inc.
WBAW	247.8	1210	100	Nashville, Tenn.-----Waldrum Drug Co.
WBAX	249.9	1200	100	Wilkes-Barre, Pa.-----J. H. Stenger Co.
WBBC	227.1	1320	500	Brooklyn, N. Y.----Brooklyn B'cast. Corp.
WBBL	247.8	1210	100	Richmond, Va.---Grace Covenant Pres. Ch.
WBBM	389.4	770	5000	Chicago, Ill.-----Atlas Investment Co.
WBBP	239.9	1250	100	Petoskey, Mich.-----High School
WBBR	256.3	1170	1000	Rossville, N. Y.----People's Pulpit Ass'n
WBBW	236.1	1270	50	Norfolk, Va.---Ruffner City High School
WBBY	499.7	600	75	Charleston, S. C.---Washington Light Infy.
WBBZ	204	1470	100	Chicago, Ill.-----C. L. Carrell
WBCN	288.3	1040	250	Chicago, Ill.-----Great Lakes B'cast. Co.
WBES	265.3	1130	100	Tacoma Park, Md.-----Bliss Elec. School
WBET	288.3	1040	500	Boston, Mass.-----The Transcript
WBIS	302.8	990	100	Boston, Mass.-----Shepard Stores
WBKN	267.7	1120	100	Brooklyn, N. Y.-----A. Faske
WBMH	211.1	1420	100	Detroit, Mich.-----Braun's Music Store
WBMS	267.7	1120	100	Union City, N. J.-----G. T. Schowerer
WBNY	236.1	1270	500	New York, N. Y.-----Baruchrome Corp.
WBOQ	325.9	920	500	Richmond Hill, N. Y.---Atlan B'cast. Corp.
WBRC	243.8	1230	250	Birmingham, Ala.---Birmingham B'cast. Co.
WBRE	249.9	1200	100	Wilkes-Barre, Pa.-----Baltimore Radio Ex.
WBRL	232.4	1290	500	Tilton, N. H.-----Booth Radio Labs.
WBR5	211.1	1420	100	Brooklyn, N. Y.----N. Amer. B'cast. Corp.
WBSO	384.4	780	100	Wellsley Hills, Mass.-----Babson's
WBT	258.5	1160	500	Charlotte, N. C.-----C. C. Coddington

### A CHRISTMAS SUGGESTION

A yearly subscription to STEVENSON'S makes a fine Christmas present, for it greatly increases radio enjoyment. Why not take advantage of our special Christmas rate—6 yearly subscriptions for \$5—in remembering your friends?

Station	Meters	K. C.	Watts	Location and Owner
WBZ	333.1	900	15000	Springfield, Mass.-----W. E. and M. C.
WBZA	333.1	900	500	Boston, Mass.-----W. E. and M. C.
WCAC	275.1	1090	500	Mansfield, Conn.-----Agricultural College
WCAD	243.8	1230	500	Canton, N. Y.----St. Lawrence University
WCAE	516.9	580	500	Pittsburgh, Pa.-----Kaufmann & Baer
WCAH	234.2	1280	250	Columbus, Ohio.-----Entrekin Elec. Co.
WCAJ	379.5	790	500	Lincoln, Neb.-----Wesleyan University
WCAL	236.1	1270	500	Northfield, Minn.-----St. Olaf College
WCAM	223.7	1340	500	Camden, N. J.-----City of Camden
WCAO	384.4	780	250	Baltimore, Md.---Monumental Radio, Inc.
WCAT	247.8	1210	100	Rapids City, S. D.-----School of Mines
WCAU	260.7	1150	500	Philadelphia, Pa.---Universal B'dcast. Co.
WCAX	254.1	1180	100	Burlington, Vt.---University of Vermont
WCAZ	340.7	880	50	Carthage, Ill.-----Carthage College
WCBA	222.1	1350	100	Allentown, Pa.-----G. W. Heimbach
WCBD	344.6	870	5000	Zion, Ill.-----W. G. Voliva
WCBE	227.1	1320	5	New Orleans, La.-----Uhalt Radio Co.
WCBM	384.4	780	100	Baltimore, Md.-----Hotel Chateau
WCBR	201.2	1490	100	Providence, R. I.-----C. H. Messter
WCBS	209.7	1430	250	Springfield, Ill.-----H. L. Dewing
WCCO	405.2	740	5000	Minneapolis, Minn. Washburn, Crosby Co.
WCDA	211.1	1420	250	Cliffside, N. J.---Ital. Educatl. B'cast. Co.
WCFL	483.6	620	1500	Chicago, Ill.-----Federation of Labor
WCGU	218.8	1370	500	Coney Island, N. Y.-----C. G. Unger
WCLO	227.1	1320	100	Camp Lake, Wis.-----C. E. Whitmore
WCLS	215.7	1390	150	Joliet, Ill.-----M. A. Felman Co.
WCMA	258.5	1160	250	Culver, Ind.-----Culver Military Academy
WCOA	249.9	1200	500	Pensacola, Fla.-----City of Pensacola
WCOC	230.6	1300	100	Columbus, Miss.-----Crystal Oil Co.
WCOT	225.4	1330	50	Providence, R. I.-----J. Conn
WCRW	223.7	1340	500	Chicago, Ill.-----C. R. White
WCSH	428.3	700	500	Portland, Maine-----Congress Hotel
WCSO	256.3	1170	500	Springfield, Ohio-----Wittenberg College
WCWK	214.2	1400	250	Ft. Wayne, Ind.-----Chester W. Keen
WCWS	265.3	1130	100	Danbury, Conn.-----Danbury B'cast. Co.
WCX	440.9	680	5000	Pontiac, Mich.-----Detroit Free Press
WDAD	225.4	1330	1000	Nashville, Tenn.---Dad's Auto Acces., Inc.
WDAE	267.7	1120	500	Tampa, Fla.-----Tampa Daily Times
WDAF	370.2	810	1000	Kansas City, Mo.-----The Star
WDAG	263	1140	250	Amarillo, Texas-----J. L. Martin
WDAH	234.2	1280	100	El Paso, Texas.----Trinity Methodist Ch.

Station	Meters	K. C.	Watts	Location and Owner
WDAY	361.2	830	250	Fargo, N. D.-----Radio Equipment Corp.
WDBJ	230.6	1300	250	Roanoke, Va.----Richardson Wayland Co.
WDBK	227.1	1320	250	Cleveland, Ohio-----WDBK Co.
WDBO	288.3	1040	500	Orlando, Fla.-----Rollins College
WDEL	296.9	1010	100	Wilmington, Del.---Wilmington Elec. Co.
WDGY	260.7	1150	500	Minneapolis, Minn.----Dr. G. W. Young
WDOD	245.8	1220	500	Chattanooga, Tenn.----Chatta. Radio Co.
WDRC	282.8	1060	500	New Haven, Conn.---Doolittle Radio Corp.
WDWF	275.1	1090	500	Cranston, R. I.-----D. W. Flint
WDWM	239.9	1250	250	Asbury Park, N. J.---Rad. Ind. B'cast. Co.
WDZ	277.6	1080	100	Tuscola, Ill.-----J. L. Bush
WEAF	491.5	610	5000	New York, N. Y.----National B'cast. Co.
WEAM	263	1140	250	N. Plainfield, N. J.-----City Borough
WEAN	319	940	500	Providence, R. I.-----Shepard Co.
WEAO	282.8	1060	750	Columbus, Ohio----Ohio State University
WEAR	399.8	750	1000	Cleveland, Ohio---Willard Stor. Batty. Co.
WEBC	241.8	1240	250	Superior, Wis.-----Lakes B'cast Co.
WEBE	247.8	1210	10	Cambridge, Ohio-----R. W. Waller
WEBH	365.6	820	2000	Chicago, Ill.-----Edgewater Beach Hotel
WEBJ	256.3	1170	500	New York, N. Y.----Third Ave. R. R. Co.
WEBQ	223.7	1340	15	Harrisburg, Ill.-----Tate Radio Co.
WEBR	241.8	1240	200	Buffalo, N. Y.-----H. H. Howell
WEBW	258.5	1160	500	Beloit, Wis.-----Beloit College
WEDC	241.8	1240	500	Chicago, Ill.-----Emil Denmark
WEEI	365.6	820	500	Boston, Mass.-----Edison Elec. Ill. Co.
WEHS	215.7	1390	100	Evanston, Ill.-----Victor C. Carlson
WEMC	483.6	620	1000	Berrien Springs, Mich.---Emm. Miss. Col.
WENR	288.3	1040	500	Chicago, Ill.---Great Lakes Radio B'cast. Co.
WEPS	296.9	1010	100	Gloucester, Mass.-----R. G. Matheson
WEVD	245.8	1220	500	Woodhaven, N. Y.---Debs Mem. Radio Fund
WEW	352.7	850	1000	St. Louis, Mo.-----St. Louis University
WFAA	499.7	600	500	Dallas, Texas---Dallas News and Journal
WFAM	252	1190	10	St. Cloud, Minn.-----The Times
WFBC	234.2	1280	50	Knoxville, Tenn.----First Baptist Church

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Station	Meters	K. C.	Watts	Location and Owner
WFBE	245.8	1220	250	Cincinnati, Ohio.....Garfield Place Hotel
WFBG	280.2	1070	100	Altoona, Pa.....W. F. Gable Co.
WFBJ	272.6	1100	100	Collegeville, Minn....St. John's University
WFBL	258.5	1160	750	Syracuse, N. Y.....Onondaga Hotel
WFBM	225.4	1330	250	Indianapolis, Ind....Ind. Power & Lt. Co.
WFBR	225.4	1330	100	Baltimore, Md.....Maryland Nat'l Guard
WFBZ	247.8	1210	50	Galesburg, Ill.....Knox College
WFCI	225.4	1330	50	Pawtucket, R. I.....Frank Crook, Inc.
WFDF	272.6	1100	100	Flint, Mich.....F. D. Fallain
WFI	405.2	740	500	Philadelphia, Pa...Strawbridge & Clothier
WFIW	280.2	1070	500	Hopkinsville, Ky.....Acme Mills
WFKB	223.7	1340	500	Chicago, Ill.....F. K. Bridgman
WFKD	247.8	1210	50	Frankford, Pa.....Foulktof R. E. Co.
WFLA	288.3	1040	500	Clearwater, Fla...Chamber of Commerce
W GAL	252	1190	15	Lancaster, Pa...Lancaster Elec. Supp. Co.
WGBB	245.8	1220	400	Freeport, N. Y.....H. H. Carman
WGBC	277.6	1080	15	Memphis, Tenn....First Baptist Church
WGBF	236.1	1270	250	Evansville, Ind.....Finke Furn. Co.
WGBI	230.6	1300	250	Scranton, Pa....Scranton B'casters, Inc.
WGBS	348.6	860	500	New York, N. Y.....Gimble Bros.
WGCP	280.2	1070	500	Newark, N. J.....D. W. May, Inc.
WGES	241.8	1240	500	Chicago, Ill.....Oakleaves B'cast Co.
WGHP	319	940	750	Detroit, Mich.....G. H. Phelps, Inc.
WGL	293.9	1020	500	New York, N. Y....Internat'l B'cast Corp.
WGM	208.2	1440	50	Jeanette, Pa.....V. and E. Spencer
WGMU	201.2	1490	100	New York, N. Y....Atlantic B'cast Corp.
WGN	305.9	980	15000	Chicago, Ill.....Chicago Tribune
WGR	302.8	990	750	Buffalo, N. Y....Federal Tel. & Tel. Co.
WGST	270.1	1110	500	Atlanta, Ga.....Ga. School of Tech.
GWGB	218.8	1370	500	Milwaukee, Wis.....Radiocast Corp.
WGY	379.5	790	30000	Schenectady, N. Y....General Elec. Co.
WHA	302.8	990	750	Madison, Wis....University of Wisconsin
WHAD	270.1	1110	500	Milwaukee, Wis....Marquette University
WHAM	277.6	1080	5000	Rochester, N. Y....Stromberg-Carlson Co.
WHAP	236.1	1270	1000	New York...Defenders of Truth Soc., Inc.
WHAR	272.6	1100	1000	Atlantic City, N. J....F. P. Cooks Sons
WHAS	461.3	650	500	Louisville, Ky.....The Courier Journal
WHAZ	545.1	550	500	Troy, N. Y.....Rensselaer Poly. Inst.
WHB	336.9	890	500	Kansas City, Mo....Sweeney School Co.
WHBA	260.7	1150	10	Oil City, Pa.....Shaffer Music House
WHBC	236.1	1270	10	Canton, Ohio....St. John Catholic Church

Station	Meters	K. C.	Watts	Location and Owner
WHBD	222.1	1350	100	Bellefontaine, Ohio...Chbr. of Commerce
WHBF	222.1	1350	100	Rock Island, Ill.....Beardsley Spec. Co.
WHBL	204	1470	100	Chicago, Ill.....C. L. Carroll
WHBM	201.2	1490	100	Chicago, Ill.....C. L. Carroll
WHBN	296.9	1010	10	St. Petersburg, Fla....University of Fla.
WHBP	228.9	1310	500	Johnstown, Pa.....Johnstown Auto Co.
WHBQ	232.4	1290	100	Memphis, Tenn.....WHBQ, Inc.
WHBU	220.4	1360	15	Anderson, Ind.....Citizens Bank
WHBW	220.4	1360	50	Philadelphia, Pa.....D. R. Kienzle
WHBY	249.9	1200	50	West De Pere, Wis...St. Norbert's College
WHDI	245.8	1220	500	Minneapolis, Minn...Dunwoody Ind. Inst.
WHEC	277.6	1180	250	Rochester, N. Y.....Hickson Elec. Co.
WHFC	215.7	1390	200	Chicago, Ill.....Goodson & Wilson, Inc.
WHK	265.3	1130	500	Cleveland, Ohio...Radio Air Service Corp.
WHN	394.5	760	500	New York, N. Y.....George Schubel
WHO	535.4	560	5000	Des Moines, Ia.....Bankers Life Co.
WHPP	206.8	1450	10	New York, N. Y.....Bronx B'cast. Co.
WHT	416.4	720	5000	Chicago, Ill....Radiophone B'cast. Corp.
WIAD	288.3	1040	100	Philadelphia, Pa.....H. R. Miller
WIAS	322.4	930	100	Burlington, Iowa.....Home Elec. Co.
WIBA	239.9	1250	100	Madison, Wisc.....Capital Times
WIBG	440.9	680	50	Elkins Park, Pa....St. Paul's M. E. Church
WIBI	267.7	1120	100	Flushing, N. Y.....F. B. Gittell, Jr.
WIBJ	201.2	1490	100	Chicago, Ill.....C. L. Carroll
WIBM	201.2	1490	100	Chicago, Ill.....C. L. Carroll
WIBO	416.4	720	500	Chicago, Ill.....WIBO B'casters
WIBR	249.9	1200	50	Steubenville, Ohio.....T. A. Owings
WIBS	204	1470	150	Elizabeth, N. J.....Lt. Thos. F. Hunter
WIBU	217.3	1380	20	Poynette, Wis.....Wis. State Journal
WIBW	204	1470	100	Chicago, Ill.....C. L. Carroll
WIBX	238	1260	150	Utica, N. Y.....WIBX, Inc.
WIBZ	230.6	1300	15	Montgomery, Ala.....A. D. Trum
WICC	265.3	1130	250	Bridgeport, Conn...Bridgeport B'cast. Co.
WIL	258.6	1160	250	St. Louis, Mo.....Benson Radio Co.
WIOD	247.8	1210	1000	Miami Beach, Fla....Carl G. Fisher Co.
WIP	508.2	590	500	Philadelphia, Pa.....Gimble Bros.

WANTED: Agents to sell subscriptions to STEVENSON'S BULLETIN OF RADIO BROADCASTING STATIONS. Write: STEVENSON'S 1220 H Street N. W., Washington, D. C.



Station	Meters	K. C.	Watts	Location and Owner
WJAD	333.1	900	500	Waco, Texas.---Jackson's Radio Elec. Co.
WJAG	285.5	1050	250	Norfolk, Nebr.-----Norfolk Daily News
WJAK	234.2	1280	50	Kokomo, Ind.-----J. A. Kautz
WJAM	239.9	1250	250	Cedar Rapids, Ia.-----D. M. Perham
WJAR	374.8	800	500	Providence, R. I.-----The Outlet Co.
WJAS	270.1	1110	500	Pittsburgh, Pa.-----Radio Sup. House
WJAX	336.9	890	1000	Jacksonville, Fla.----City of Jacksonville
WJAY	227.1	1320	500	Cleveland, Ohio----Radio B'casting Corp.
WJAZ	263	1140	5000	Mt. Prospect, Ill.----Zenith Radio Corp.
WJBA	322.4	930	50	Joliet, Ill.-----D. H. Lentz, Jr.
WJBB	344.6	870	250	St. Petersburg, Fla.----Financial Journal
WJBC	227.1	1320	100	La Salle, Ill.-----Hummer Furn. Co.
WJBI	263.0	1140	150	Red Bank, N. J.-----Robert S. Johnson
WJBK	220.4	1360	15	Ypsilanti, Mich.-----E. F. Goodwin
WJBL	212.6	1410	250	Decatur, Ill.-----Gishard D. G. Co.
WJBO	263	1140	100	New Orleans, La.-----V. Jensen
WJBR	227.1	1320	100	Omro, Wis.-----Gensch & Stearns
WJBT	389.4	770	500	Chicago, Ill.-----John S. Boyd
WJBU	214.2	1400	100	Lewisburg, Pa.-----Bucknell University
WJBW	238	1260	30	New Orleans, La.-----C. Carlson, Jr.
WJBY	234.2	1280	50	Gadsden, Ala.-----Elec. Const'n Co.
WJBZ	208.2	1440	100	Chicago Heights, Ill.----R. G. Palmer
WJJD	365.6	820	1000	Moosehart, Ill.----Loyal Order of Moose
WJKS	232.4	1290	500	Gary, Ind.----Johnson Kennedy Radio Co.
WJPW	208.2	1440	30	Ashtabula, Ohio-----J. P. Wilson
WJR	440.9	680	5000	Pontiac, Mich.-----WJR, Inc.
WJZ	454.3	660	30000	New York, N. Y.---National B'casting Co.
WKAQ	340.7	880	500	San Juan, P. R.----Radio Corp. of P. R.
WKAR	285.5	1050	500	East Lansing, Mich.---Mich. Agri. College
WKAU	223.7	1340	50	Laconia, N. H.-----Laconia Radio Club
WKBB	215.7	1390	150	Joliet, Ill.-----Sanders Bros.
WKBC	218.8	1370	10	Birmingham, Ala.-----H. L. Ansley
WKBE	228.9	1310	100	Webster, Mass.-----K. and B. Elec. Co.
WKBF	252	1190	250	Indianapolis, Ind.-----N. B. Watson
WKBG	201.2	1490	100	Chicago, Ill.-----C. L. Carroll
WKBH	220.4	1360	500	La Crosse, Wisc.----Callaway Music Co.
WKBI	322.4	930	50	Chicago, Ill.-----F. L. Schoenwolf
WKBL	205.4	1460	15	Monroe, Mich.----Monroe Radio Mfg. Co.
WKBN	214.2	1400	50	Youngstown, Ohio----W. P. Wilson, Jr.
WKBO	218.8	1370	500	Jersey City, N. J.-----Camith Corp.
WKBP	212.6	1410	50	Battle Creek, Mich.-----The Enquirer

Station	Meters	K. C.	Watts	Location and Owner
WKBQ	218.8	1370	500	New York, N. Y.-----Standard Cahill Co.
WKBS	217.3	1380	100	Galesburg, Ill.-----P. N. Nelson
WKBT	252	1190	50	New Orleans, La.-----First Baptist Church
WKBV	217.3	1380	100	Brookville, Ind.-----Knox Battery Co.
WKBW	217.3	1380	500	Buffalo, N. Y.-----Churchill Evan. Ass'n
WKBZ	199.9	1500	15	Ludington, Mich.-----K. L. Ashbacker
WKDR	322.4	930	15	Kenosha, Wisc.-----E. A. Dato
WKEN	204	1470	250	Kenmore, N. Y.-----WKEN, Inc.
WKJC	252	1190	50	Lancaster, Pa.-----Kirk Johnson & Co.
WKRC	245.8	1220	500	Cincinnati, Ohio-----Kodel Radio Corp.
WKY	283.3	1040	150	Oklahoma City, Okla.---WKY R'd'ph'ne Co.
WLAP	267.7	1120	30	Louisville, Ky.-----L. W. Benedict
WLB	245.8	1220	500	Minneapolis, Minn.----Univ. of Minnesota
WLBC	209.7	1430	50	Muncie, Ind.-----D. A. Burton
WLBF	209.7	1430	50	Kansas City, Mo.-----E. L. Dillard
WLBG	214.2	1400	100	Petersburg, Va.-----R. A. Gamble
WLBH	232.4	1290	30	Farmingdale, N. Y.-----J. J. Lombardi
WLBI	238	1260	250	E. Wenona, Ill.---W. Legion B'c't'rs, Inc.
WLBL	302.8	990	1000	Stevens Point, Wis.----Dept. of Markets
WIBM	230.6	1300	50	Boston, Mass.-----Browning Drake Corp.
WIBN	204	1470	50	Chicago, Ill.-----W. E. Hiler
WIBO	217.3	1380	100	Galesburg, Ill.-----F. A. Trebbe, Jr.
WLBQ	202.6	1480	25	Atwood, Ill.-----E. D. Trout
WLBR	322.4	930	15	Belvidere, Ill.-----Alford Radio Corp.
WLBT	322.4	930	50	Crown Point, Ind.-----Harold Wendell
WLBV	206.8	1450	50	Mansfield, O.---Mansfield Br'd'e'ting Ass'n
WLBW	293.9	1020	500	Oil City, Pa.-----Petroleum Tel. Co.
WLBX	204	1470	250	Long Island City, N. Y.---J. N. Brahy
WLBY	209.7	1430	50	Iron Mountain, Mich.---Aimone Elec. Co.
WLBZ	208.2	1440	250	Dover, Maine-----T. L. Guernsey
WLCI	247.8	1210	50	Ithaca, N. Y.-----Lutheran Ass'n.
WLEX	215.7	1390	5	Lexington, Mass.-----J. Smith Dodge
WLIB	305.9	980	15000	Chicago, Ill.-----Liberty Weekly
WLIT	405.2	740	500	Philadelphia, Pa.-----Lit Bros.

### A CHRISTMAS SUGGESTION

A yearly subscription to STEVENSON'S makes a fine Christmas present, for it greatly increases radio enjoyment. Why not take advantage of our special Christmas rate—6 yearly subscriptions for \$5—in remembering your friends?

Station	Meters	K. C.	Watts	Location and Owner
WLS	344.6	870	5000	Chicago, Ill.-----Sears, Roebuck Co.
WLSI	275.1	1090	500	Cranston, R. I.-----Lincoln Studios, Inc.
WLTH	256.3	1170	250	Brooklyn, N. Y.---Voice of Brooklyn, Inc.
WLTS	483.6	620	100	Chicago, Ill.----Lane Tech. High School
WLW	428.3	700	5000	Cincinnati, Ohio----Crosley Radio Corp.
WLWL	370.2	810	1000	New York, N. Y.-----Paulist Fathers
WMAC	225.4	1330	500	Cazenovia, N. Y.-----C. B. Meredity
WMAF	428.3	720	1000	Dartmouth, Mass.-Round Hills Radio Corp.
WMAK	545.1	550	750	Lockport, N. Y.-----Norton Laboratory
WMAL	241.8	1240	250	Washington, D. C.-----Leese Co.
WMAN	234.2	1280	50	Columbus, Ohio----Heskitt Radio Station
WMAQ	447.5	670	1000	Chicago, Ill.-----Chicago Daily News
WMAY	247.8	1210	100	St. Louis, Mo.---Kings Highway Pres. Ch.
WMAZ	270.1	1110	500	Macon, Ga.-----Mercer University
WMBA	204	1470	100	Newport, R. I.-----L. J. Beebe
WMBB	252	1190	5000	Chicago, Ill.-----Am. Bond & Mort. Co.
WMBC	243.8	1230	100	Detroit, Mich.---Mich. B'casting Co., Inc.
WMBD	205.4	1460	250	Peoria Heights, Ill.-----Radio Lab.
WMBE	208.2	1440	10	St. Paul, Minn.-----Dr. C. S. Stevens
WMBF	384.4	780	500	Miami Beach, Fla.-----Fleetwood Hotel
WMBG	220.4	1360	15	Richmond, Va.-----Havens and Martin
WMBH	204	1470	100	Joplin, Mo.-----E. D. Aber
WMBI	263	1140	500	Chicago, Ill.-----Moody Bible Institute
WMBJ	232.4	1290	50	Monessen, Pa.-----Star Theater
WMBL	228.9	1310	50	Lakeland, Fla.----Benford Radio Studios
WMBM	209.7	1430	10	Memphis, Tenn.---Seventh Day Adventists
WMBO	220.4	1360	100	Auburn, N. Y.-----Radio Service Labs.
WMBQ	204	1470	100	Brooklyn, N. Y.-----P. J. Gollhofer
WMBR	252	1190	100	Tampa, Fla.-----F. J. Reynolds
WMBS	234.2	1280	250	Harrisburg, Pa.-----Mack Battery Co.
WMBW	214.2	1400	50	Youngstown, Ohio-Youngstown B'cst. Co.
WMC	516.9	580	500	Memphis, Tenn.-The Commercial Appeal
WMCA	370.2	810	500	New York, N. Y.---Greeley Square Hotel
WMES	211.1	1420	50	Boston, Mass.----Mass. Educatl. Society
WMPC	234.2	1280	30	Lapeer, Mich.-----First M. P. Church
WMRJ	206.8	1450	10	Jamaica, N. Y.-----P. J. Prinz
WMSG	236.1	1270	500	New York, N. Y.----Madison Sq. Garden
WNAC	461.3	650	500	Boston, Mass.-----Shepard Stores
WNAD	239.9	1250	500	Norman, Okla.---University of Oklahoma
WNAL	258.5	1160	250	Omaha, Nebr.-----R. J. Rockwell
WNAT	288.3	1040	100	Philadelphia, Pa.-----Lenning Bros. Co.

Station	Meters	K. C.	Watts	Location and Owner
WNAX	302.8	990	250	Yankton, S. D.....Guerney S. & N. Co.
WNBA	208.2	1440	200	Forest Park, Ill.....M. T. Rafferty
WNBF	206.8	1450	50	Endicott, N. Y....Howett Rood Radio Co.
WNBH	260.7	1150	250	New Bedford, Mass...New Bedford Hotel
WNBJ	206.8	1450	50	Knoxville, Tenn...Lonsdale Baptist Church
WNBL	199.8	1500	15	Bloomington, Ill.....H. R. Storm
WNBO	211.1	1420	15	Washington, Pa.....J. B. Spriggs
WNBQ	202.6	1480	15	Rochester, N. Y.....G. B. Brown
WNBK	228.9	1310	20	Memphis, Tenn.....John Ulrich
WNBX	241.8	1240	10	Springfield, Vt.....1st Congressional Ch.
WNJ	280.2	1070	500	Newark, N. J.....H. Lubinsky
WNOX	265.3	1130	1000	Knoxville, Tenn...Peoples Tel. & Tel. Co.
WNRC	223.7	1340	500	Greensboro, N. C.....W. M. Nelson
WNYC	526.0	570	500	New York, N. Y.....Municipal Station
WOAI	319	940	5000	San Antonio, Texas...S. E. Equipment Co.
WOAN	285.5	1050	250	Lawrenceb'g Tenn...Church of Nazarene
WOAX	239.9	1250	500	Trenton, N. J.....F. J. Wolff
WOBR	204.0	1470	10	Portable .....Harl Smith
WOC	374.8	800	5000	Davenport, Ia...Palmer School of Chiro.
WOCL	223.7	1340	25	Jamestown, N. Y.....A. E. Newton
WODA	293.9	1020	1000	Paterson, N. J.....O'Dea Radio Shop
WOI	265.3	1130	2500	Ames, Iowa.....Iowa State College
WOK	252	1190	5000	Chicago, Ill.....Trianon, Inc.
WOKO	215.7	1390	250	Peekskill, N. Y.....H. E. Smith
WOKT	209.7	1430	500	Rochester, N. Y.....Titus Ets. Corp.
WOMT	222.1	1350	50	Manitowoc, Wis.....Mikadow Theater
WOO	508.2	590	500	Philadelphia, Pa.....John Wanamaker
WOOD	260.7	1150	500	Grand Rapids, Mich.....W. B. Stiles
WOQ	336.9	890	250	Kansas City, Mo...Unity School of Christ
WOR	422.3	710	500	Newark, N. J....L. Bamberger and Co.
WORD	275.1	1090	5000	Batavia, Ill.....People's Pulpit Ass'n
WOS	422.3	710	500	Jefferson City, Mo...Mo. State Mrkg. Bur.
WOW	508.2	590	1000	Omaha, Nebr....Woodmen of the World
WOWO	228.9	1310	2500	Ft. Wayne, Ind...Main Auto Supply Co.

### DON'T MISS YOUR COPY

A new issue of STEVENSON'S will be on the news stands Feb. 1. It will contain, among other features, a new log and a revised list of all broadcasting stations, including Federal Radio Commission changes.

Station	Meters	K. C.	Watts	Location and Owner
WPAP	394.5	760	500	Cliffside, N. J. . . . . Palisades Amusement Pk.
WPCC	223.7	1340	500	Chicago, Ill. . . . . N. Shore Cong. Church
WPCH	309.1	970	500	Brooklyn, N. Y. . . . . Concourse Radio Corp.
WPEP	215.7	1390	250	Waukegan, Ill. . . . . M. Mayer
WPG	272.6	1100	5000	Atlantic City, N. J. . . . . Municipal Station
WPRC	209.7	1430	100	Harrisburg, Pa. . . . . Wilson Ptg. & Radio Co.
WPSC	299.8	1000	500	State College, Pa. . . . . Penn State College
WPSW	202.6	1480	50	Philadelphia, Pa. . . . . School of Wireless
WQAA	215.7	1390	500	Parkersburg, Pa. . . . . H. A. Beale, Jr.
WQAM	322.4	930	750	Miami, Fla. . . . . Elec. Equipment Co.
WQAN	230.6	1300	250	Scranton, Pa. . . . . Scranton Times
WQAO	394.5	760	500	Cliffside, N. J. . . . . Calvary Baptist Church
WQJ	447.5	670	500	Chicago, Ill. . . . . Calumet Rainbo B'cast. Co.
WRAF	208.2	1440	100	Laporte, Ind. . . . . Radio Club
WRAH	199.8	1500	250	Providence, R. I. . . . . S. N. Read
WRAK	282.8	1060	50	Escanaba, Mich. . . . . Economy Light Co.
WRAM	247.8	1210	50	Galesburg, Ill. . . . . Lombard College
WRAV	296.9	1010	100	Yellow Springs, Ohio . . . . . Antioch College
WRAW	238	1260	100	Reading, Pa. . . . . Avenue Radio Shop
WRAX	212.6	1410	250	Philadelphia, Pa. . . . . Beracheh Church
WRBC	238	1260	250	Valparaiso, Ind. . . . . Imman'l Luth. Church
WRC	468.5	640	500	Washington, D. C. . . . . Nat'l B'casting Corp.
WRCO	217.3	1380	250	Raleigh, N. C. . . . . Wynne Radio Co.
WRCV	209.7	1430	100	Norfolk, Va. . . . . Radio Corp. of Va.
WREC	254.1	1180	50	Memphis, Tenn. . . . . WREC, Inc.
WREN	254.1	1180	750	Lawrence, Kans. . . . . Wren Co.
WRES	217.3	1380	50	Quincy, Mass. . . . . H. L. Sawyer
WRHF	322.4	930	150	Washington, D. C. . . . . Radio Hosp. Fund
WRHM	260.7	1150	1000	Minneapolis, Minn. . . . . Rosedale Hospital
WRK	205.4	1460	100	Hamilton, Ohio . . . . . J. C. Slade
WRM	272.6	1100	500	Urbana, Ill. . . . . University of Illinois
WRMU	201.2	1490	100	New York, N. Y. . . . . Atlantic B'cast. Corp.
WRNY	309.1	970	500	Coytesville, N. J. . . . . Experimenter Pub. Co.
WRPI	208.2	1440	100	Terre Haute, Ind. . . . . Rose Polytech. Inst.
WRR	461.3	650	500	Dallas, Texas . . . . . City of Dallas
WRRS	322.4	930	50	Racine, Wisc. . . . . Racine Radio Club
WRSC	211.1	1420	100	Chelsea, Mass. . . . . W. S. Potte
WRST	211.1	1420	250	Bay Shore, N. Y. . . . . Radiotel Mfg. Co.
WRVA	254.1	1180	1000	Richmond, Va. . . . . Larus & Bros. Co.
WSAI	361.2	830	5000	Cincinnati, Ohio . . . . . U. S. Playing Card Co.
WSAJ	223.7	1340	250	Grove City, Pa. . . . . Grove City College

Station	Meters	K. C.	Watts	Location and Owner
WSAN	222.1	1350	100	Allentown, Pa.-----Allentown Call
WSAR	252	1190	100	Portsmouth, R. I.-----Doughty & Welch
WSAX	204	1470	100	Chicago, Ill.-----Zenith Radio Corp.
WSAZ	241.8	1240	100	Huntington, W. Va.----McKellar Elec. Co.
WSB	475.9	630	1000	Atlanta, Ga.-----The Atlanta Journal
WSBC	232.4	1290	500	Chicago, Ill.-----World Battery Co.
WSBF	258.5	1160	250	St. Louis, Mo.----Miss. Valley B'cast. Co.
WSBT	238	1260	500	South Bend, Ind.----South Bend Tribune
WSDA	227.1	1320	250	New York, N. Y.----Seventh Day Adventists
WSEA	263	1140	500	Va. Beach, Va.----Va. Beach B'cast. Co.
WSIX	212.6	1410	150	Springfield, Tenn.-----Tire & Vulc. Co.
WSKC	272.6	1100	250	Bay City, Mich. World's Star Knitt'g Co.
WSM	340.8	880	5000	Nashville, Tenn. Nat. Life & Acc. Ins. Co.
WSMB	322.4	930	500	New Orleans, La. Saenger Amusem't Co.
WSMK	296.9	1010	200	Dayton, Ohio.----S. M. K. Radio Corp.
WSOE	270.1	1110	250	Milwaukee, Wis. School of Engineering
WSRO	384.4	780	100	Middletown, Ohio.----H. W. Fahlander
WSSH	288.3	1040	100	Boston, Mass.----Tremont Temp. Bap. Ch.
WSUI	475.9	630	500	Iowa City, Ia.----State University of Iowa
WSVS	205.4	1460	50	Buffalo, N. Y.----Seneca Vocational School
WSYR	225.4	1330	500	Syracuse, N. Y.-----C. B. Meredith
WTAD	236.1	1270	250	Quincy, Ill.-----Ill. Stock Med. Co.
WTAG	516.9	580	500	Worcester, Mass.----Telegram Pub. Co.
WTAL	280.2	1070	100	Toledo, Ohio.----Toledo Broadcasting Co.
WTAM	399.8	750	5000	Cleveland, Ohio. Willard Storage Bat. Co.
WTAQ	254.1	1180	500	Eau Claire, Wis.----C. S. Van Gorden
WTAR	236.1	1170	500	Norfolk, Va.----Reliance Radio & Elec. Co.
WTAS	275.1	1090	500	Chicago, Ill.-----Ill. Broadcasting Corp.
WTAW	483.6	620	500	College Sta., Texas. Agri. & Mech. Col.
WTAX	322.4	930	50	Streator, Ill.----Williams Hdw. Mfg. Co.
WTIC	535.4	560	500	Hartford, Conn.----Travelers Ins. Co.
WTMJ	293.9	1020	1000	Brookfield, Wisc.-----The Journal
WTFF	204.0	1470	50	Mt. Vernon Hills, Va.-----Ind. Pub. Co.
WTFI	209.7	1430	250	Toccoa, Ga.-----Toccoa Falls Institute
WTRL	206.8	1450	15	Midland Park, N. J.----Tech. Radio Lab.
WWAE	227.1	1320	500	Chicago, Ill.-----Dr. Geo. F. Courrier
WWJ	352.7	850	1000	Detroit, Mich.----The Detroit News
WWL	275.1	1090	100	New Orleans, La.----Loyola University
WWNC	296.9	1010	1000	Asheville, N. C.----Chamber of Commerce
WWRL	267.7	1120	100	Woodside, N. Y.-----W. H. Reuman
WWVA	336.9	890	100	Wheeling, W. Va.-----J. C. Stroebel

## CANADIAN BROADCASTING STATIONS

Station	Meters	K. C.	Watts	Location and Owner
CFAC	434.5	690	500	Calgary, Alberta...The Calgary Herald
CFCA	356.9	840	500	Toronto, Ont...Star Publishing & Ptg. Co.
CFCF	410.7	730	1650	Montreal, Quebec...Canadian Marconi Co.
CFCH	499.7	600	250	Iroquois F'ls., Ont.....Abitibi Power & Paper Co.
CFCJ	434.5	690	250	Calgary, Alta...Radio Sery. & Repair Shop
CFCN	434.5	690	1800	Calgary, Alberta.....W. W. Grant, Ltd.
CFCQ	410.7	730	20	Vancouver, B. C...Sprott Shaw Radio Co.
CFCT	329.5	910	500	Vancouver, B. C.....G. W. Deaville
CFCY	312.3	960	100	Charlottetown, P. E. I...The Isl. Rad. Co.
CFGC	296.9	1010	50	Brantford, Ont....Brant Radio Sup. Co.
CFJC	267.7	1120	15	Kamloops, B. C.....Dagleash & Sons
CFLC	296.9	1010	50	Prescott, Ont.....Radio Ass'n.
CFMC	267.7	1120	20	Kingston, Ont.....Monarch Battery Co.
CFNB	247.8	1210	25	Fredericton, N. B...J. S. Neill & Sons, Ltd.
CFQC	329.5	910	500	Saskatoon, Sask.....The Electric Shop
CFRB	291.1	1030	1000	King, Ont.....Std. Radio Mfg. Co.
CFRC	267.7	1120	500	Kingston, Ont.....Queen's University
CFYC	410.7	730	500	Burnaby, B. C....Bible Students Ass'n.
CHCO	247.8	1210	5	Huntsville, Ont.....A. Staples
CHCS	340.7	880	10	Hamilton, Ont...The Hamilton Spectator
CHCY	516.9	580	250	Edmonton, Alta....Bible Students Ass'n.
CHIC	356.9	840	500	Toronto, Ont.....Northern Electric Co.
CHLC	267.7	1120	25	Summerside, P. E. I.....R. T. Holmes
CHMA	516.9	580	250	Edmonton, Alta.-Christian & Mis. Alliance
CHNC	356.9	840	500	Toronto, Ont...Toronto Rad. Resrch. Sec.
CHNS	322.4	930	100	Halifax, N. S.....Northern Elec. Co.
CHPC	410.7	730	1000	Vancouver, B. C...Central Pres. Church
CHRC	340.7	880	5	Quebec, Que.....E. Fontaine
CHSC	267.7	1120	50	Unity, Sask.....H. N. Stovin
CHUC	329.5	910	500	Saskatoon, Sask....Intl. Bible Stu. Assn.
CHWC	312.3	960	15	Regina, Sask.....R. H. Williams & Sons
CHXC	434.5	690	250	Ottawa, Ont.....J. R. Booth, Jr.
CHYC	410.7	730	750	Montreal, Que....Northern Electric Co.
CJBC	356.9	840	500	Toronto, Ont.....Jarvis St. Bap. Church

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Station	Meters	K. C.	Watts.	Location and Owner
CJBR	312.3	960	500	Regina, Sask.----Coop. Wheat Producers
CJCA	516.9	580	500	Edmonton, Alta. Edmonton Journal, Ltd.
CJCU	247.8	1210	5	Mission City, B. C.-----E. R. Streeter
CJGC	329.5	910	500	London, Ont. London Free Press Ptg. Co.
CJGX	475.9	630	500	Yorkton, Sask.-----Grain Exchange
CJOR	291.1	1028	50	Sea Island, B. C.-----G. C. Chandler
CJRM	296.9	1010	50	Moosejaw, Sask.----J. Richardson & Sons
CJSC	356.9	840	500	Toronto, Ont.-----Evening Telegram
CJWC	329.5	910	250	Saskatoon, Sask.----Wheaton Electric Co.
CJYC	291.1	1028	500	Scarboro, Ont.-----Universal Radio Co.
CKAC	410.7	730	1200	Montreal, Que.---LaPresse Publishing Co.
CKCD	410.7	730	1000	Vancouver, B. C.---Vanc. Daily Providence
CKCI	340.7	880	25	Quebec, Que.-----L. Soleil, Ltd.
CKCK	312.3	960	500	Regina, Sask.-----Leader Publishing Co.
CKCL	356.9	840	500	Toronto, Ont. The Dominion Battery Co.
CKCO	434.5	690	100	Ottawa, Ont.-----Dr. G. M. Geldert
CKCV	340.7	880	50	Quebec, Que.-----G. A. Vandry
CKCX	291.9	1030	500	Scarboro, Ont.-----Int'l. Bible Assn.
CKFC	410.7	730	50	Vancouver, B. C.---1st Congregational Ch.
CKLC	356.9	840	1000	Red Deer, Alta.-----Pac. Grain Co.
CKMC	247.8	1210	5	Cobalt, Ont.-----R. L. MacAdam
CKNC	356.9	840	500	Toronto, Ont.-----Can. Nat. Carbon Co.
CKOC	340.7	880	50	Hamilton, Ont.---Wentworth Rad. Sup. Co.
CKPC	247.8	1210	10	Preston, Ont.-----W. Russ
CKPR	267.7	1120	50	Midland, Ont.-----E. O. Swan
CKSH	312.3	960	50	St. Hyacinthe, Que.----Municipal Station
CKSM	356.9	840	500	Toronto, Ont.----St. Michaels Cathedral
CKUA	516.9	580	500	Edmonton, Alta.-----University of Alta.
CKWX	410.7	730	10	Vancouver, B. C.-----A. Holstead
CKY	384.4	780	500	Winnipeg, Man.---Provincial Government
CNRA	322.4	930	500	Moncton, N. B.-----Canadian Natl. Rys.
CNRC	434.5	690	750	Calgary, Alta.-----Canadian Natl. Rys.
CNRE	516.9	580	500	Edmonton, Alta.-----Canadian Natl. Rys.
CNRM	410.7	730	1000	Montreal, Que.-----Canadian Natl. Rys.
			1650	
CNRO	434.5	690	500	Ottawa, Ont.-----Canadian Natl. Rys.
CNRR	312.3	960	500	Regina, Sask.-----Canadian Natl. Rys.
CNRS	329.5	910	500	Saskatoon, Sask.----Canadian Natl. Rys.
CNRT	356.9	840	500	Toronto, Ont.-----Canadian Natl. Rys.
CNRV	291.1	1030	500	Vancouver, B. C.-----Canadian Natl. Rys.
CNRW	384.4	780	500	Winnipeg, Man.-----Canadian Natl. Rys.



## CUBAN BROADCASTING STATIONS

Station	Meters	K. C.	Watts	Location and Owner	
PWX	399.8	750	500	Habana.....	Cuban Tel. Co.
2OK	348.6	860	100	Habana.....	Mario Garcia Velez
2OL	275	1090	100	Habana.....	Oscar Collado Orta
6BY	260.7	1150	200	Cienfuegos.....	Jose Ganduxe
6JK	275	1090	100	Tuincu.....	Frank H. Jones
6KW	340.7	880	4000	Tuincu.....	Frank H. Jones
7SR	249.9	1200	100	Elia.....	Salvador Rionda

## MEXICAN BROADCASTING STATIONS

Station	Meters	K. C.	Watts	Location and Owner	
CYA	299.8	1000	500	Mexico City.....	E. R. Gomez
CYB	275	1090	1000	Mexico City.....	El Buen Tono
CYF	265.3	1130	100	Oaxaca.....	Fredrico Zonilla
CYH	374.8	800	100	Mexico City.....	La High Life
CYJ	399.8	750	2000	Mexico City.....	General Electric
CYL	399.8	750	500	Mexico City.....	Universal Casa del Radio
CYO	428.3	700	100	Mexico City.....	N. Y. Zetima
CYQ	322.4	930	100	Tampico.....	Cipriano Sagaon
CYR	475.9	630	250	Mazathan.....	Castulo Llames
CYU	312.3	960	100	Puebla.....	Augustin P. Zaenz
CYX	325.9	910	500	Mexico City.....	Excelsior
CYY	545.1	550	100	Merida.....	Partido Socialiste
CZE	348.6	860	500	Mexico City.....	Department of Education
CZF	309.1	970	250	Chiluohua.....	State Government

## HAITI BROADCASTING STATIONS

HHK	361.2	830	1000	Port au Prince.....	Haitian Government
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## SALVADOR BROADCASTING STATIONS

AQM	483.6	620	500	Salvador.....	Division of Tel. & Tel.
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# AIR LINE DISTANCES IN STATUTE MILES

FROM/TO	Albu'que, N. M.	Atlanta, Ga.	Baltimore, Md.	Boise, Idaho	Boston, Mass.	Brownsville, Tex.	Buffalo, N. Y.	Chicago, Ill.	Cincinnati, Ohio	Cleveland, Ohio
Albu'que, N. M.	----	1273	1670	774	1967	838	1577	1126	1248	1417
Atlanta, Ga.	1273	----	575	1830	933	960	695	583	368	550
Baltimore, Md.	1670	575	----	2055	358	1525	273	603	423	305
Boise, Idaho	774	1830	2055	----	2266	1610	1872	1453	1663	1754
Boston, Mass.	1967	933	358	2266	----	1881	398	849	737	550
Brownsville, Tex.	838	960	1525	1610	1881	----	1575	1234	1184	1402
Buffalo, N. Y.	1577	695	273	1872	398	1575	----	454	392	175
Chicago, Ill.	1126	583	603	1453	849	1234	454	----	249	307
Cincinnati, Ohio	1248	368	423	1663	737	1184	392	249	----	218
Cleveland, Ohio	1417	550	305	1754	550	1402	175	307	218	----
Denver, Colo.	332	1208	1505	637	1766	1047	1368	918	1090	1223
Des Moines, Ia.	833	738	913	1155	1159	1102	762	310	509	617
Detroit, Mich.	1360	595	398	1671	613	1398	218	236	234	94
El Paso, Tex.	228	1293	1750	969	2067	682	1690	1249	1333	1521
Fargo, N. Dak.	968	1112	1143	975	1304	1445	923	571	818	838
Fort Worth, Tex.	561	750	1239	1263	1574	471	1221	820	839	1046
Galveston, Tex.	803	688	1245	1538	1598	287	1289	954	897	1116
Hastings, Nebr.	588	901	1154	934	1415	1013	1019	566	742	871
Hot Spgs., Ark.	773	498	964	1384	1302	650	956	585	569	787
Houghton, Mich.	1252	947	808	1367	922	1543	560	307	589	518
Jacksonville, Fla.	1492	286	682	2098	1015	1025	880	861	628	768
Kansas City, Mo.	717	675	962	1158	1250	923	862	413	541	700
Los Angeles, Cal.	663	1935	2313	663	2590	1370	2195	1741	1892	2044
Louisville, Ky.	1174	317	498	1623	823	1093	483	268	92	309
Memphis, Tenn.	938	335	792	1506	1133	777	802	481	410	627
Miami, Fla.	1710	610	958	2368	1258	1100	1184	1190	957	1088
Min'apolis, Minn.	980	905	948	1140	1125	1335	733	356	603	632
Missoula, Mont.	895	1790	1947	252	2124	1706	1740	1348	1578	1640
Nashville, Tenn.	1117	218	597	1631	941	952	626	394	239	456
New Orleans, La.	1030	427	1001	1713	1359	536	1087	831	708	922
New York, N. Y.	1810	747	170	2153	188	1695	291	711	568	404
Norfolk, Va.	1696	507	167	2137	467	1465	435	696	474	429
Oklahoma, Okla.	518	753	1173	1138	1490	659	1117	689	755	946
Omaha, Nebr.	718	815	1026	1044	1280	1061	883	482	620	738
Philadelphia, Pa.	1748	663	90	2113	268	1614	278	664	501	343
Phoenix, Ariz.	330	1592	2002	733	2295	1023	1904	1451	1578	1745
Pittsburgh, Pa.	1498	520	194	1863	478	1424	178	411	258	115
Portland, Me.	2015	1022	446	2282	100	1961	438	892	802	603
Portland, Oreg.	1107	2172	2367	349	2553	1944	2167	1765	1987	2063
Richmond, Va.	1628	470	128	2060	471	1428	375	618	399	353
St. Louis, Mo.	938	467	731	1389	1036	975	662	259	308	490
Salt L. C., Utah	483	1580	1858	292	2099	1317	1701	1260	1450	1567
San Francisco	893	2133	2451	516	2696	1675	2298	1855	2037	2163
Schenectady, N.Y.	1823	840	278	2120	150	1770	249	702	605	408
Seattle, Wash.	1178	2180	2341	405	2508	2015	2130	1743	1974	2035
Shreveport, La.	764	548	1064	1433	1410	510	1080	725	688	904
Spokane, Wash.	1028	1960	2110	290	2279	1852	1900	1514	1746	1804
Springfield, Mass.	1889	863	282	2196	79	1805	325	774	659	473
Vermilion, S. D.	742	917	1083	973	1314	1161	916	479	694	785
Washington	1648	543	33	2045	392	1493	290	594	403	303

## Air Line Distances in Statute Miles—(Continued)

FROM/TO	Deaver, Colo.	Des Moines, Ia.	Detroit, Mich.	El Paso, Tex.	Fargo, N. Dak.	Fort Worth, Tex.	Galveston, Tex.	Hastings, Nebr.	Hot Sprgs., Ark.	Houghton, Mich.
Albuquerque, N. M.	332	833	1360	228	968	561	803	588	778	1252
Atlanta, Ga.	1208	738	595	1293	1112	750	688	901	498	947
Baltimore, Md.	1505	913	398	1750	1143	1239	1245	1154	964	808
Boise, Idaho	637	1155	1671	969	975	1263	1538	934	1384	1307
Boston, Mass.	1766	1159	613	2067	1304	1574	1598	1415	1302	922
Brownsville, Tex.	1047	1102	1398	682	1445	471	287	1013	650	1543
Buffalo, N. Y.	1368	762	218	1690	923	1221	1289	1019	956	560
Chicago, Ill.	918	310	236	1249	571	820	954	566	585	367
Cincinnati, Ohio	1090	509	234	1333	818	839	897	742	569	589
Cleveland, Ohio	1223	617	94	1521	838	1046	1116	871	787	518
Denver, Colo.	---	607	1153	554	642	643	925	353	749	970
Des Moines, Ia.	607	---	545	980	397	640	851	256	458	458
Detroit, Mich.	1153	545	---	1475	745	1018	1111	800	701	427
El Paso, Tex.	554	980	1475	---	1161	543	723	757	802	1422
Fargo, N. Dak.	642	397	745	1161	---	973	1218	440	875	393
Fort Worth, Tex.	643	640	1018	543	973	---	283	544	273	1093
Galveston, Tex.	925	851	1111	723	1218	283	---	808	375	1277
Hastings, Nebr.	353	256	800	757	440	544	808	---	513	666
Hot Sprgs., Ark.	749	488	761	802	875	273	375	513	---	901
Houghton, Mich.	970	558	427	1422	393	1093	1277	666	901	---
Jacksonville, Fla.	1468	1024	832	1481	1400	943	799	1178	728	1216
Kansas City, Mo.	555	180	643	836	548	460	677	226	326	633
Los Angeles, Cal.	828	1433	1976	702	1426	1212	1423	1177	1437	1787
Louisville, Ky.	1035	477	315	1253	818	751	807	693	480	636
Memphis, Tenn.	878	485	621	978	882	448	492	591	176	830
Miami, Fla.	1732	1338	1156	1662	1721	1150	941	1468	983	1545
Min'apolis, Minn.	699	235	542	1156	219	870	1087	399	722	272
Missoula, Mont.	670	1074	1552	1115	819	1312	1595	891	1385	1208
Nashville, Tenn.	1018	523	468	1169	900	643	666	697	370	760
New Orleans, La.	1079	825	938	986	1221	470	288	870	358	1187
New York, N. Y.	1628	1023	483	1902	1213	1398	1415	1275	1125	849
Norfolk, Va.	1562	983	522	1755	1258	1226	1195	1216	955	946
Oklahoma, Okla.	503	469	905	578	786	188	456	357	260	926
Omaha, Nebr.	485	122	666	875	390	590	828	135	490	547
Philadelphia, Pa.	575	972	444	1834	1186	1324	1335	1222	1051	827
Phoenix, Ariz.	585	1154	1685	347	1225	858	1065	901	1094	1550
Pittsburgh, Pa.	1320	718	208	1592	952	1097	1140	967	825	630
Portland, Me.	1803	1197	657	2126	1313	1642	1678	1454	1371	924
Portland, Oreg.	985	1479	1975	1286	1248	1612	1885	1271	1733	1638
Richmond, Va.	1488	905	445	1695	1180	1170	1154	1142	897	870
St. Louis, Mo.	793	270	452	1033	658	568	697	455	325	591
Salt L. C., Utah	372	952	1490	689	805	977	1249	708	1116	1242
San Francisco	946	1547	2087	993	1447	1454	1693	1297	1048	1833
Schenectady, N.Y.	1618	1012	467	1930	1157	1445	1487	1267	1175	776
Seattle, Wash.	1020	1470	1945	1373	1206	1658	1938	1288	1759	1588
Shreveport, La.	790	624	891	752	1002	209	233	615	142	1043
Spokane, Wash.	827	1243	1715	1238	976	1470	1753	1061	1552	1360
Springfield, Mass.	1692	1085	540	1990	1240	1495	1524	1340	1224	860
Vermilion, S. D.	468	187	705	920	284	689	938	167	605	510
Washington	1490	895	397	1726	1141	1210	1214	1139	936	813

## Air Line Distances in Statute Miles—(Continued)

FROM/TO	Jacksonville, Fla.	Kansas City, Mo.	Los Angeles, Cal.	Louisville, Ky.	Memphis, Tenn.	Miami, Fla.	Min'apolis, Minn.	Missoula, Mont.	Nashville, Tenn.	New Orleans, La.
Albuq'que, N. M.	1492	717	663	1174	938	1710	980	895	1117	1030
Atlanta, Ga.	286	675	1935	317	335	610	905	1790	218	427
Baltimore, Md.	682	962	2313	498	792	958	948	1947	597	1001
Boise, Idaho	2098	1158	663	1623	1506	2368	1140	252	1631	1713
Boston, Mass.	1015	1250	2590	823	1133	1258	1125	2124	941	1359
Brownsville, Tex.	1025	923	1370	1093	777	1100	1335	1706	952	536
Buffalo, N. Y.	880	862	2195	483	802	1184	733	1740	626	1087
Chicago, Ill.	861	413	1741	268	481	1190	356	1343	394	831
Cincinnati, Ohio	628	541	1892	92	410	957	603	1573	239	708
Cleveland, Ohio	768	700	2044	309	627	1088	632	1640	456	922
Denver, Colo.	1468	555	828	1035	878	1732	699	670	1018	1079
Des Moines, Ia.	1024	180	1433	477	485	1338	235	1074	523	825
Detroit, Mich.	832	643	1976	315	621	1156	542	1552	468	938
El Paso, Tex.	1481	836	702	1253	978	1662	1156	1115	1169	986
Fargo, N. Dak.	1400	548	1426	818	882	1721	219	819	900	1221
Fort Worth, Tex.	943	460	1212	751	448	1150	870	1312	643	470
Galveston, Tex.	799	677	1423	807	492	941	1087	1595	666	288
Hastings, Nebr.	1178	226	1177	693	591	1468	399	891	697	870
Hot Sprgs., Ark.	728	326	1437	480	176	983	722	1385	370	358
Houghton, Mich.	1216	633	1787	636	830	1545	272	1208	760	1187
Jacksonville, Fla.	---	952	2153	595	591	328	1192	2070	502	511
Kansas City, Mo.	952	---	1352	480	370	1247	413	1117	472	678
Los Angeles, Cal.	2153	1352	---	1825	1602	2355	1522	910	1777	1675
Louisville, Ky.	595	480	1825	---	319	923	605	1550	153	623
Memphis, Tenn.	591	370	1602	319	---	878	700	1483	195	858
Miami, Fla.	328	1247	2355	923	878	---	1516	2359	821	681
Min'apolis, Minn.	1192	413	1522	605	700	1516	---	1010	695	1050
Missoula, Mont.	2070	1117	910	1550	1483	2359	1010	---	1582	1733
Nashville, Tenn.	502	472	1777	153	195	821	695	1582	---	470
New Orleans, La.	511	678	1675	623	358	681	1050	1733	470	---
New York, N. Y.	838	1097	2446	650	953	1095	1019	2030	758	1173
Norfolk, Va.	548	1009	2352	528	778	802	1047	2045	586	932
Oklahoma, Okla.	938	293	1182	675	422	1233	692	1162	602	575
Omaha, Nebr.	1098	165	1312	579	529	1402	291	978	604	845
Philadelphia, Pa.	758	1037	2388	530	878	1023	985	1997	683	1090
Phoenix, Ariz.	1800	1045	357	1512	1264	1998	1279	932	1445	1318
Pittsburgh, Pa.	703	784	2135	345	660	1014	745	1754	472	923
Portland, Me.	1113	1300	2631	892	1205	1577	1145	2133	1015	1445
Portland, Oreg.	2442	1397	825	1953	1852	2716	1435	430	1970	2063
Richmond, Va.	953	937	2283	457	722	831	968	1967	526	899
St. Louis, Mo.	755	238	1585	242	242	1067	464	1331	253	599
Salt L. C., Utah	1840	922	577	1400	1250	2098	988	435	1390	1433
San Francisco	2375	1500	345	1983	1800	2603	1585	762	1953	1923
Schenectady, N.Y.	960	1107	2445	695	1010	1229	975	1973	820	1259
Seattle, Wash.	2450	1505	956	1945	1867	2740	1403	395	1973	2098
Shreveport, La.	733	326	1420	598	279	650	859	1457	470	280
Spokane, Wash.	2239	1286	939	1720	1652	2528	1173	170	1752	1898
Springfield, Mass.	957	1173	2515	745	1055	1210	1056	2060	863	1287
Vermilion, S. D.	1203	280	1291	663	642	1510	238	887	704	960
Washington	647	943	2295	473	763	927	936	1940	567	968

## Air Line Distances in Statute Miles—(Continued)

FROM/TO	New York, N. Y.	Norfolk, Va.	Oklahoma, Okla.	Omaha, Nebr.	Philadelphia, Pa.	Phoenix, Ariz.	Pittsburgh, Pa.	Portland, Me.	Portland, Oreg.	Richmond, Va.
Albuq'que, N. M.	1810	1696	518	718	1748	330	1498	2015	1107	1628
Atlanta, Ga.	747	507	753	815	663	1592	520	1022	2172	470
Baltimore, Md.	170	167	1173	1026	90	2002	194	446	2367	128
Boise, Idaho	2153	2137	1138	1044	2113	733	1863	2282	349	2060
Boston, Mass.	188	467	1490	1280	268	2295	478	100	2553	471
Brownsville, Tex.	1695	1465	659	1061	1614	1023	1424	1961	1944	1428
Buffalo, N. Y.	291	435	1117	883	278	1904	178	438	2167	375
Chicago, Ill.	711	696	689	432	664	1451	411	892	1765	618
Cincinnati, Ohio.	568	474	755	620	501	1578	258	802	1987	399
Cleveland, Ohio.	404	429	946	738	343	1745	115	603	2063	353
Denver, Colo.	1628	1562	503	485	1575	585	1320	1803	985	1488
Des Moines, Ia.	1023	953	469	122	972	1154	718	1197	1479	905
Detroit, Mich.	483	522	905	666	444	1685	208	657	1975	445
El Paso, Tex.	1902	1755	578	875	1834	347	1592	2126	1286	1695
Fargo, N. Dak.	1213	1258	786	390	1186	1225	952	1313	1248	1180
Fort Worth, Tex.	1398	1226	188	590	1324	858	1097	1642	1612	1170
Galveston, Tex.	1415	1195	456	828	1335	1065	1140	1678	1885	1154
Hastings, Nebr.	1275	1216	357	135	1222	901	967	1454	1271	1142
Hot Sprgs., Ark.	1125	955	260	490	1051	1094	825	1371	1733	897
Houghton, Mich.	849	946	926	547	827	1550	630	924	1638	870
Jacksonville, Fla.	838	548	988	1098	758	1800	703	1113	2442	953
Kansas City, Mo.	1097	1009	293	165	1037	1045	784	1300	1397	937
Los Angeles, Cal.	2446	2352	1182	1312	2388	857	2135	2631	825	2283
Louisville, Ky.	650	528	675	579	580	1512	345	892	1953	457
Memphis, Tenn.	953	778	422	529	878	1264	660	1205	1352	722
Miami, Fla.	1095	802	1233	1402	1023	1998	1014	1357	2716	831
Min'apolis, Minn.	1019	1047	692	291	985	1279	745	1145	1435	968
Missoula, Mont.	2030	2045	1162	978	1997	932	1754	2133	430	1967
Nashville, Tenn.	758	586	602	604	683	1445	472	1015	1970	526
New Orleans, La.	1173	932	575	845	1090	1318	923	1445	2063	899
New York, N. Y.	----	293	1324	1144	83	2142	313	277	2455	287
Norfolk, Va.	293	----	1186	1095	220	2027	316	565	2458	79
Oklahoma, Okla.	1324	1186	----	405	1256	843	1013	1550	1488	1122
Omaha, Nebr.	1144	1095	405	----	1094	1032	837	1318	1373	1020
Philadelphia, Pa.	83	220	1256	1094	----	2079	254	360	2419	205
Phoenix, Ariz.	2142	2027	843	1032	2079	----	1829	2345	1007	1960
Pittsburgh, Pa.	313	316	1013	837	254	1829	----	545	2174	242
Portland, Me.	277	565	1550	1318	360	2345	545	----	2563	565
Portland, Oreg.	2455	2458	1488	1373	2419	1007	2174	2563	----	2381
Richmond, Va.	287	79	1122	1020	205	1960	242	565	2381	----
St. Louis, Mo.	878	771	456	352	808	1270	561	1094	1723	699
Salt L. C., Utah	1972	1925	862	833	1923	504	1670	2127	636	1850
San Francisco	2568	2510	1386	1425	2518	652	2264	2725	536	2436
Schenectady, N.Y.	142	426	1354	1133	205	2152	350	197	2405	406
Seattle, Wash.	2419	2440	1523	1372	2388	1112	2145	2513	143	2362
Shreveport, La.	1230	1037	297	617	1153	1067	939	1484	1783	985
Spokane, Wash.	2190	2211	1324	1149	2159	1020	1918	2285	295	2133
Springfield, Mass.	120	411	1412	1205	201	2220	400	159	2488	407
Vermilion, S. D.	1189	1166	502	115	1143	1043	891	1345	1293	1089
Washington	204	145	1150	1012	122	1980	188	480	2360	96

## Air Line Distances in Statute Miles—(Continued)

FROM/TO	St. Louis, Mo.	Salt L. C., Utah	San Francisco	Schenectady, N.Y.	Seattle, Wash.	Shreveport, La.	Spokane, Wash.	Springfield, Mass.	Vermilion, S. D.	Washington
Albuquerque, N. M.	938	483	893	1823	1178	764	1028	1889	742	1648
Atlanta, Ga.	467	1580	2133	840	2180	548	1960	863	917	542
Baltimore, Md.	731	1858	2451	278	2341	1064	2110	282	1083	33
Boise, Idaho	1389	292	516	2120	405	1433	290	2196	973	2045
Boston, Mass.	1036	2099	2696	150	2508	1410	2279	79	1314	392
Brownsville, Tex.	975	1317	1675	1770	2015	510	1852	1805	1161	1493
Buffalo, N. Y.	662	1701	2298	249	2130	1080	1900	325	916	290
Chicago, Ill.	259	1260	1855	702	1743	725	1514	774	479	594
Cincinnati, Ohio	308	1450	2037	605	1974	688	1746	659	694	403
Cleveland, Ohio	490	1567	2163	408	2035	904	1804	478	785	303
Denver, Colo.	793	372	946	1618	1020	799	827	1692	468	1490
Des Moines, Ia.	270	952	1547	1012	1470	624	1243	1085	187	895
Detroit, Mich.	452	1490	2087	467	1945	891	1715	540	705	397
El Paso, Tex.	1083	689	993	1930	1373	752	1238	1990	920	1726
Fargo, N. Dak.	658	865	1447	1157	1206	1002	976	1240	284	1141
Fort Worth, Tex.	568	977	1454	1445	1658	209	1470	1495	689	1210
Galveston, Tex.	697	1249	1693	1487	1938	233	1753	1524	938	1214
Hastings, Nebr.	455	708	1297	1267	1288	615	1061	1340	167	1139
Hot Sprgs., Ark.	325	1116	1648	1175	1759	142	1552	1224	605	936
Houghton, Mich.	591	1242	1833	776	1588	1043	1860	860	510	813
Jacksonville, Fla.	755	1840	2375	960	2450	733	2239	957	1203	647
Kansas City, Mo.	238	922	1500	1107	1505	326	1286	1173	280	943
Los Angeles, Cal.	1585	577	345	2445	956	1420	939	2515	1291	2295
Louisville, Ky.	242	1400	1983	695	1945	598	1720	745	663	473
Memphis, Tenn.	242	1250	1800	1010	1867	279	1652	1055	642	763
Miami, Fla.	1067	2098	2603	1239	2740	950	2528	1210	1510	927
Min'apolis, Minn.	464	988	1585	975	1403	859	1773	1056	238	936
Missoula, Mont.	1331	435	762	1978	395	1457	170	2060	887	1940
Nashville, Tenn.	253	1390	1958	820	1973	470	1752	863	704	567
New Orleans, La.	599	1433	1923	1259	2098	280	1898	1287	960	968
New York, N. Y.	873	1972	2568	142	2419	1230	2190	120	1189	204
Norfolk, Va.	771	1925	2510	426	2440	1037	2211	411	1166	145
Oklahoma, Okla.	456	862	1386	1354	1523	297	1324	1412	502	1150
Omaha, Nebr.	352	833	1425	1133	1372	617	1149	1205	115	1012
Philadelphia, Pa.	808	1923	2518	205	2388	1153	2159	201	1143	122
Phoenix, Ariz.	1270	504	652	2152	1112	1067	1020	2220	1043	1980
Pittsburgh, Pa.	561	1670	2264	350	2145	939	1918	400	891	188
Portland, Me.	1094	2127	2725	197	2513	1484	2285	159	1345	480
Portland, Oreg.	1723	636	536	2405	143	1783	295	2488	1293	2960
Richmond, Va.	699	1850	2436	406	2362	985	2133	407	1089	96
St. Louis, Mo.	---	1158	1738	898	1722	466	1500	958	450	710
Salt L. C., Utah	1158	---	592	1950	697	1155	548	2067	785	1845
San Francisco	1738	592	---	2548	680	1655	730	2625	1383	2437
Schenectady, N.Y.	898	1950	2548	---	2363	1290	2139	86	1165	813
Seattle, Wash.	1722	697	680	2363	---	1820	229	2445	1282	2335
Shreveport, La.	466	1155	1655	1290	1820	---	1621	1333	726	1035
Spokane, Wash.	1500	548	730	2139	229	1621	---	2216	1055	2105
Springfield, Mass.	958	2027	2625	86	2445	1333	2216	---	1242	3121
Vermilion, S. D.	450	785	1383	1165	1282	726	1055	1242	---	1073
Washington	710	1845	2437	813	2335	1035	2105	321	1073	---

# Operating Hours of American Broadcasters

(CENTRAL STANDARD TIME)

This schedule of operating time of stations is based on Central Standard Time. Eastern Standard Time is one hour later; Mountain Standard Time one hour earlier, and Pacific Standard Time two hours earlier.

Call	Location	W. L. Met.	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
KDKA	Pittsburgh	315.6	5:00-9:00	5:00-10:35	5:20-10:00	5:20-9:00	5:20-10:00	5:20-9:00	4:30-8:30
KFAB	Lincoln	309.1	8:30-10:15	8:05-10:30	8:30-10:30	Silent	8:30-10:00	8:30-10:00	8:00-10:00
KFDM	Beaumont	374.8	Silent	8:00-10:30	Silent	Silent	8:00-10:00	Silent	8:00-9:00
KFBI	Wichita	245.8	7:00-8:30	7:30-8:30	7:30-8:30	7:30-8:30	7:30-8:30	7:30-8:30	7:00-8:00
KFI	Los Angeles	468.5	8:15-1:00	8:15-1:00	8:15-1:00	8:15-1:00	8:15-1:00	8:30-2:00	8:00-12:00
KFJF	Oklahoma City	272.6	7:15-8:30	7:15-8:30	7:15-8:30	7:15-8:30	7:15-8:30	7:15-2:00	1:30-9:00
KFNF	Shenandoah	270.1	7:00-12:00	7:00-9:00	7:00-12:00	7:00-8:00	7:00-8:00	7:00-12:00	6:30-8:30
KFOA	Seattle	447.5	8:00-11:00	8:00-2:00	8:00-12:00	8:30-1:30	8:45-2:00	10:00-11:00	Silent
KFON	Long Beach	241.8	8:00-2:00	8:00-2:00	8:00-2:00	8:00-2:00	8:00-3:00	8:00-2:00	8:00-2:00
KFRU	Columbia	249.9	6:15-7:15	6:15-7:15	Silent	6:15-12:00	6:15-7:15	Silent	Silent
KFSD	San Diego	440.9	6:00-9:00	6:00-9:00	6:00-9:00	6:00-9:00	6:00-9:00	6:00-12:00	2:00-9:00
KFUD	St. Louis	545.1	8:00-9:00	6:30-7:30	9:20-10:30	Silent	7:15-8:15	7:15-8:15	9:15-10:15
KFVE	St. Louis	234.2	7:00-12:00	7:00-12:00	7:00-12:00	Silent	7:00-12:00	6:45-12:00	7:00-10:30
KFWB	Hollywood	361.2	8:00-2:00	8:00-2:00	8:00-2:00	8:00-2:00	8:00-2:00	8:00-2:00	10:30-1:00
KFWI	San Francisco	267.7	8:00-2:00	8:00-1:00	8:00-1:00	8:00-2:00	8:00-1:00	10:00-3:00	8:30-12:00
KGA	Spokane	260.7	8:00-11:00	8:00-1:00	8:00-1:00	8:00-11:00	8:00-11:00	Silent	9:50-11:30
KGO	Oakland	384.4	8:00-8:55	8:00-1:00	8:00-2:00	8:00-12:00	8:00-1:00	10:00-3:00	8:30-12:00
KGW	Portland	491.5	8:00-2:00	8:00-2:00	8:00-12:00	8:00-2:00	8:00-2:00	8:00-2:00	9:00-1:00
KHJ	Los Angeles	405.2	Silent	10:00-1:00	10:00-1:00	10:00-1:00	10:00-1:00	8:30-12:00	9:00-12:00
KIAT	Sitapok	421	9:00-10:00	Silent	9:00-10:00	Silent	9:00-10:00	Silent	5:00-5:00
KJR	Seattle	348.6	8:00-12:00	8:00-12:00	8:00-12:00	8:00-12:00	8:00-12:00	8:00-1:00	9:15-12:45
KLDS	Independence	238	Silent	8:00-9:00	Silent	8:00-9:00	Silent	Silent	9:15-10:15
KLX	Oakland	598.2	9:00-12:00	Silent	8:30-12:00	Silent	9:00-12:30	Silent	Silent
KMA	Shenandoah	270.1	9:00-11:00	9:00-1:00	9:00-11:00	Silent	9:00-9:00	9:00-1:00	4:45-9:45
KMNJ	Clay Center	229	9:00-9:00	8:00-1:00	9:00-1:00	8:00-2:00	8:00-9:00	8:00-2:00	6:30-12:00
KNX	Hollywood	255.9	8:00-1:00	8:00-1:00	9:00-1:00	9:00-2:00	9:00-2:00	9:00-2:00	6:00-11:00
KOA	Denver	275.9	8:00-1:00	8:30-1:00	8:30-1:00	Silent	7:00-11:00	11:00-1:00	6:00-11:00
KOBL	Portland	275.6	8:00-12:00	8:00-12:00	8:00-12:00	8:00-12:00	8:00-12:00	Silent	6:00-12:00
KOIN	Portland	319.6	8:00-12:00	8:00-11:30	8:00-1:30	8:00-12:00	8:00-1:30	Silent	8:00-12:00
KOMO	Seattle	305.9	8:00-2:30	8:00-2:30	8:00-2:30	8:00-12:00	8:00-2:30	8:00-2:30	9:00-12:00

OPERATING HOURS—Central Standard Time, E. S. T. is one hour later, M. S. T. one hour earlier and P. S. T. two hours earlier.

Call	Location	W. L. Met.	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
KPO	San Francisco	422.3	8:00-2:00	8:00-1:00	8:00-1:00	8:00-1:00	8:00-1:00	8:00-2:30	8:00-12:00
KPRC	Houston	293.9	7:30-12:00	7:30-9:30	7:30-9:30	7:30-12:00	Silent	7:30-12:00	7:50-10:30
KFSN	Pasadena	315.6	10:00-11:15	10:00-11:15	Silent	10:00-11:15	Silent	10:00-11:00	8:00-9:00
KSEA	Shreveport	267.7	6:00-9:00	6:00-9:00	6:00-9:00	6:00-7:00	6:00-9:00	6:00-10:00	8:00-9:00
KSL	Salt Lake	245.8	8:00-12:00	7:00-9:00	8:30-12:00	8:30-12:00	8:30-11:00	9:00-12:00	8:30-11:00
KSO	Clairinda	227.1	7:30-9:00	7:30-9:00	7:30-9:00	7:30-9:00	7:30-9:00	Silent	Silent
KTAB	Oakland	280.2	10:00-12:00	10:00-12:00	12:00-12:00	10:00-12:00	10:00-12:00	Silent	9:45-11:15
KTHS	Hot Springs	348.4	8:00-10:25	6:00-10:00	8:30-10:45	8:30-9:45	8:30-10:30	6:30-10:00	8:30-9:45
KVVO	Bristow	384.6	6:00-9:00	6:00-9:00	6:00-9:00	6:00-9:00	6:00-9:00	6:00-9:00	6:00-9:00
KWKH	Kennonwood	391.5	7:00-12:00	7:00-12:00	7:00-12:00	7:00-12:00	7:00-12:00	7:00-12:00	7:00-12:00
KWVG	Brownsville	277.6	8:30-9:30	Silent	Silent	8:30-9:30	Silent	Silent	Silent
KYA	San Francisco	309.1	8:00-12:00	8:00-12:00	8:00-12:00	8:00-12:00	8:00-12:00	9:00-2:00	9:30-10:30
KYW	Chicago	526	Silent	5:00-10:55	5:00-10:55	5:00-10:55	5:00-10:55	5:00-10:55	3:00-10:00
NAA	Arlington, Va.	434.5	6:45-7:00	7:30-8:30	Silent	Silent	Silent	Silent	Silent
NAX	Havana	400	Silent	8:30-10:00	7:30-9:00	Silent	Silent	7:30-11:00	7:30-12:00
WAAM	Newark, N. J.	348.6	4:00-9:00	4:00-9:00	4:00-10:00	4:00-10:00	4:00-10:00	4:00-9:00	Silent
WABC	New York	325.9	5:30-11:00	Silent	5:30-9:01	Silent	5:30-10:00	Silent	Silent
WADC	Akron	293.9	8:00-11:00	Silent	6:15-7:15	9:00-11:00	6:15-11:00	Silent	Silent
WAIU	Columbus	282.8	5:00-10:00	5:00-10:00	5:00-7:00	5:00-7:00	5:00-10:00	Silent	6:30-7:30
WAMD	Minneapolis	225.4	6:00-11:00	7:00-8:00	6:15-11:00	6:00-8:00	6:00-11:00	4:15-5:15	6:00-10:15
WASH	Grand Rapids	256.3	7:00-8:00	7:00-8:00	7:00-8:00	Silent	7:00-8:00	7:00-8:00	Silent
WBAL	Baltimore	285.5	5:30-10:00	5:30-10:00	5:30-10:00	5:30-10:00	5:30-10:00	Silent	5:00-7:30
WBAP	Fort Worth	489.7	7:30-12:00	7:30-11:00	Silent	7:30-12:00	7:30-12:00	7:30-11:00	9:30-11:00
WBEP	Sisht	406	9:00-10:00	Silent	8:00-9:00	7:00-8:30	Silent	10:00-11:00	10:00-11:00
WBEM	Chicago	389.4	Silent	7:00-11:00	7:00-12:00	7:00-11:00	7:00-9:15	7:00-12:00	7:00-12:00
WBEN	Staten Island	256.3	5:00-7:00	6:00-7:30	6:00-7:00	6:00-8:00	6:00-6:00	Silent	5:00-7:00
WBGN	Chicago	288.3	Silent	6:00-12:00	6:00-11:00	6:00-11:00	6:00-11:00	Silent	3:00-8:15
WBZ	Springfield	533.1	5:00-9:00	5:00-9:30	5:00-9:00	5:00-9:00	5:00-9:00	5:00-8:45	5:00-8:30
WCAE	Pittsburgh	516.9	5:00-10:00	5:00-9:30	5:00-10:10	5:00-10:15	5:00-10:00	5:00-9:30	5:03-8:45
WCAU	Philadelphia	277.6	4:15-11:00	8:00-11:00	4:15-10:00	4:35-11:00	4:30-10:00	Silent	3:00-9:00
WCBD	Zion	344.6	Silent	8:00-10:30	8:00-10:30	8:00-10:30	Silent	Silent	8:00-10:30
WCBO	Minneapolis	465.2	6:30-12:45	6:30-11:30	6:30-11:30	6:00-10:00	6:00-11:00	6:15-11:00	4:10-11:00
WCFL	Chicago	483.6	Silent	5:00-11:00	5:00-11:00	5:00-11:00	5:00-11:00	5:00-11:00	5:00-11:00
WCDA	Pensacola	249.6	7:00-9:00	6:00-11:00	7:00-11:00	Silent	7:00-10:00	Silent	7:30-9:30
WCDF	Detroid	363.5	6:15-9:00	6:00-9:00	6:00-9:00	6:00-9:00	6:00-11:00	Silent	6:15-7:15
WCY	Kansas City	440.5	5:00-8:00	5:00-10:00	5:00-8:00	5:00-8:00	5:00-10:00	5:00-10:00	6:00-1:00
WDAF	Kansas City	370.2	8:00-1:00	8:00-1:00	8:00-1:00	6:00-1:00	6:00-1:00	8:00-1:00	8:00-1:00
WDOR	Orlando	248.3	7:00-8:00	7:00-9:15	6:55-9:00	8:30-9:30	6:55-9:00	8:00-9:00	6:00-10:30
WDRO	Chattanooga	285.8	7:00-11:30	8:00-9:00	7:00-10:30	Silent	7:00-10:00	Silent	6:30-10:30
WEAF	New York	491.5	4:00-8:30	4:00-10:00	4:00-10:00	4:00-10:00	4:00-10:00	4:00-10:00	1:00-8:45



OPERATING HOURS—Central Standard Time, E. S. T. is one hour later, M. S. T. one hour earlier and P. S. T. two hours earlier.

Call	Location	W. L. Met.	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
WEAN	Providence.....	319	4:30-10:00	4:30-8:30	4:30-8:30	4:30-8:30	4:30-8:30	4:30-8:30	5:30-6:45
WEAO	Columbus.....	282.8	Silent	6:00-8:00	7:00-9:00	7:00-9:00	Silent	Silent	Silent
WEBS	Chicago.....	265.6	Silent	6:00-10:00	6:00-10:00	6:00-10:00	6:00-10:00	6:00-1:00	5:00-8:00
WEBB	New York.....	256.3	Silent	5:00-7:00	5:00-7:00	Silent	5:00-7:00	Silent	Silent
WEEL	Boston.....	447.5	8:15-9:15	5:30-8:10	5:30-8:40	5:30-9:05	5:30-9:10	5:10-9:30	2:00-8:00
WEMC	Berrien Springs.....	238	Silent	Silent	8:15-9:15	Silent	8:15-9:15	Silent	8:15-9:15
WENR	Chicago.....	288.3	Silent	6:00-9:00	5:00-1:00	5:00-9:00	5:00-1:00	5:00-1:00	8:30-11:00
WFAA	Dallas.....	499.7	6:30-9:30	6:30-12:00	Silent	6:30-9:30	6:30-9:30	6:30-12:30	6:00-12:00
WFHH	Clearwater.....	365.6	7:30-8:30	7:30-8:30	7:30-8:30	7:30-8:30	7:30-8:30	Silent	Silent
WFH	Philadelphia.....	405.2	5:15-6:15	5:15-10:00	5:15-6:15	5:15-9:00	5:15-6:15	4:30-9:45	3:30-8:15
WGBF	Evansville.....	236.1	7:00-12:30	7:45-10:00	Silent	Silent	7:45-10:00	Silent	7:30-8:30
WGBS	New York.....	348.6	Silent	5:05-8:30	Silent	4:50-9:30	Silent	5:30-12:00	7:00-12:00
WGES	Chicago.....	241.8	Silent	4:00-12:00	4:00-12:00	4:00-12:00	4:00-12:00	4:00-12:00	4:00-12:00
WGHP	Detroit.....	319	5:00-10:00	5:00-10:00	5:00-10:00	5:00-11:00	5:00-11:00	Silent	6:30-9:00
WGN	Chicago.....	305.9	Silent	5:01-10:00	5:01-10:00	5:01-10:00	5:01-10:00	5:01-10:00	5:10-10:00
WGR	Buffalo.....	302.8	7:00-12:00	5:30-10:30	5:30-10:00	5:30-10:00	8:00-12:00	Silent	6:45-9:15
WGY	Schenectady.....	379.5	4:30-6:00	5:30-9:00	5:30-9:30	5:30-10:30	5:30-9:30	5:30-10:00	1:00-8:15
WHAD	Milwaukee.....	293.9	6:15-10:00	6:15-11:30	6:15-11:30	6:15-12:00	6:15-13:15	9:15-7:35	3:15-10:00
WHAR	Atlantic City.....	272.6	5:30-8:00	5:30-7:00	Silent	3:30-8:00	3:30-5:00	5:30-7:00	5:50-6:00
WHAS	Louisville.....	461.3	5:30-9:00	6:00-9:00	6:00-9:00	6:00-8:00	6:00-8:00	7:30-9:00	5:20-7:15
WHAZ	Troy.....	379.5	7:00-11:00	Silent	Silent	Silent	Silent	Silent	Silent
WHB	Kansas City.....	336.9	7:00-8:00	7:00-10:00	7:00-11:45	7:00-10:00	6:00-7:00	7:00-8:00	7:00-1:00
WHK	Cleveland.....	365.6	6:00-9:30	5:00-10:00	6:00-10:00	5:00-10:00	5:00-10:00	5:00-11:00	4:30-8:30
WHN	New York.....	394.5	4:30-10:00	5:00-10:00	4:30-11:00	5:00-11:00	4:30-11:00	Silent	5:00-8:30
WHO	Des Moines.....	535.4	7:30-12:00	7:30-12:00	6:00-11:30	7:30-12:00	7:30-12:00	6:00-11:00	6:00-8:00
WHT	Chicago.....	416.4	Silent	6:00-11:00	6:00-11:00	6:00-11:00	6:00-12:00	5:00-11:00	5:00-11:00
WIBO	Chicago.....	416.4	Silent	5:00-12:00	5:00-11:00	5:00-12:00	5:00-12:00	6:00-10:00	6:00-11:00
WIP	Philadelphia.....	508.2	Silent	5:30-9:30	Silent	5:30-9:30	Silent	6:00-10:05	7:30-8:15
WJAX	Providence.....	483.6	5:45-9:00	5:30-8:00	5:30-9:00	5:45-9:00	5:45-9:00	6:00-10:05	5:00-8:15
WJAZ	Jacksonville.....	336.9	6:00-11:00	6:00-11:00	6:00-11:00	6:45-7:00	6:00-11:00	6:00-11:00	5:30-10:15
WJAZ	Chicago.....	263	Silent	6:30-9:00	6:30-9:00	6:30-9:00	6:30-9:00	6:30-9:00	6:30-9:00
WJJD	Moosheart.....	365.6	Silent	7:00-12:00	8:00-11:00	8:00-11:00	7:00-12:00	7:00-10:00	8:00-9:00
WJK	Detroit.....	404.9	6:00-9:00	6:00-9:00	6:00-12:00	6:00-9:00	6:00-8:00	6:00-11:30	6:00-9:00
WJL	New York.....	454.5	4:50-9:30	4:50-9:40	4:50-10:00	4:50-9:30	4:50-9:30	4:50-9:30	1:55-8:30
WKAQ	San Juan.....	320.7	6:30-8:00	9:00-11:00	7:15-8:00	Silent	6:00-8:00	Silent	Silent
WKRC	Cincinnati.....	333.1	5:15-12:00	9:00-11:00	7:15-12:00	7:00-9:00	Silent	Silent	5:45-12:15
WLAS	Cashtville.....	262.6	7:00-9:00	9:00-12:00	8:00-9:00	9:00-11:15	6:00-7:00	7:00-9:00	9:15-10:15
WLFC	Chicago.....	325.6	Silent	6:00-11:15	7:00-11:45	6:00-11:15	6:00-7:00	6:00-11:30	4:00-5:15
WLIB	Philadelphia.....	405.2	5:30-9:00	6:30-6:30	5:15-9:30	5:30-6:30	5:30-6:30	5:30-6:30	12:00-2:00
WLIJ	Chicago.....	344.6	Silent	6:10-7:55	6:10-11:00	6:10-7:55	5:00-11:00	6:10-12:00	6:00-7:55

OPERATING HOURS—Central Standard Time. E. S. T. is one hour later, M. S. T. one hour earlier and P. S. T. two hours earlier.

Call	Location	W. L. Met.	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
WLW	Cincinnati	428.3	6:00-10:20	5:30-10:00	6:00-11:30	6:00-12:05	Silent	6:00-9:30	6:30-9:30
WLWL	New York	370.2	6:00-9:00	Silent	6:00-9:00	Silent	6:00-9:00	Silent	Silent
WMAK	Lockport	545.1	5:30-9:00	5:30-11:00	5:15-8:30	5:00-9:00	5:30-9:00	5:30-10:00	5:50-6:50
WMAQ	Chicago	447.5	Silent	5:00-11:00	5:00-11:00	5:00-11:00	5:00-11:00	5:00-12:00	5:00-8:15
WMBB	Chicago	252	Silent	6:00-10:00	6:00-10:00	6:00-10:00	6:00-10:00	6:00-10:00	2:00-10:00
WMC	Memphis	516.9	8:00-9:30	7:30-12:00	8:00-9:00	7:45-10:00	7:30-12:00	7:30-8:30	5:20-7:15
WMCA	New York	370.2	4:30-11:30	4:00-10:00	4:00-11:30	4:30-11:00	4:30-10:00	4:00-10:15	4:00-11:00
WNAC	Boston	352.7	5:00-10:30	5:30-9:00	5:30-9:00	5:00-8:00	4:00-9:00	4:00-9:00	4:30-8:00
WNYC	New York	535.4	4:00-8:35	4:00-8:35	4:00-8:35	4:00-8:35	4:00-8:35	4:00-8:35	4:00-8:35
WYAI	San Antonio	302.8	Silent	6:15-9:30	8:30-9:30	8:00-9:30	8:00-9:30	Silent	7:45-8:45
WOAN	Lawrenceburg	285.5	9:00-1:30	9:00-10:00	9:00-10:00	9:00-10:00	9:00-10:00	Silent	9:00-10:00
WOC	Davenport	352.7	7:05-8:00	6:30-9:30	7:30-11:00	8:00-9:30	8:00-9:00	7:30-11:00	6:30-7:45
WOI	Ames	265.3	7:45-8:45	Silent	Silent	7:30-8:30	Silent	Silent	Silent
WOK	Chicago	252	Silent	8:00-11:30	8:00-11:30	8:00-11:30	8:00-11:30	8:00-11:30	8:00-11:30
WOKT	Rochester	209.7	5:00-9:00	5:00-10:00	5:00-10:00	5:00-10:00	5:00-10:00	5:00-10:00	9:15-10:15
WOO	Philadelphia	508.2	5:30-8:00	5:30-6:30	5:30-8:00	5:30-6:30	5:30-9:00	5:30-6:30	4:00-6:30
WOOO	Kansas City	336.9	Silent	8:00-9:00	Silent	7:00-9:00	Silent	8:00-11:00	7:00-7:45
WOR	Newark	422.3	5:00-10:00	5:30-10:30	5:00-10:00	5:00-10:00	5:30-10:00	5:00-10:00	2:30-6:45
WORD	Batavia	275	Silent	6:00-9:00	6:00-9:15	6:00-9:00	6:00-7:45	6:00-9:00	6:00-9:00
WOS	Jefferson City	394.5	7:00-11:00	Silent	7:00-9:00	Silent	7:00-9:00	Silent	Silent
WOW	Omaha	508.2	5:45-10:00	6:00-11:00	Silent	5:45-11:00	5:00-11:00	6:00-11:00	9:00-10:00
WPG	Atlantic City	272.6	5:00-10:00	5:00-10:30	Silent	5:00-10:00	5:00-10:00	5:00-10:30	1:15-9:00
WRC	Washington	468.5	5:30-10:00	6:00-10:00	5:30-10:00	5:00-10:00	5:30-10:00	6:00-11:00	3:00-8:30
WRKO	Lansing	230.6	Silent	7:15-9:00	5:00-6:00	5:00-8:15	5:00-6:00	6:00-9:10	Silent
WRK	Dallas	352.7	8:00-10:30	6:00-9:00	7:00-10:15	6:00-12:00	6:30-9:00	6:00-10:00	8:00-10:30
WRVA	Richmond	254.1	8:00-11:00	Silent	7:00-10:45	7:00-10:30	8:30-11:30	Silent	Silent
WSAI	Cincinnati	391.2	6:00-10:00	6:00-12:00	6:00-10:30	6:00-10:00	6:00-10:00	7:00-9:15	7:00-8:15
WSB	Atlanta	475.9	6:00-12:00	6:00-9:00	10:45-12:00	6:00-10:00	8:00-12:00	8:00-12:00	4:00-8:15
WSBC	Chicago	232.4	Silent	5:30-12:00	5:30-12:00	5:30-12:00	5:30-12:00	5:30-12:00	4:00-12:00
WSBK	Bay City	491.5	8:00-10:00	Silent	8:00-10:00	Silent	Silent	10:00-1:00	Silent
WSM	Nashville	340.7	5:30-7:00	6:00-11:00	6:00-11:00	6:30-11:00	7:00-11:00	7:15-11:00	5:20-8:45
WSMB	New Orleans	327.4	8:30-10:30	Silent	8:30-10:30	8:30-10:30	8:30-10:30	8:30-10:30	Silent
WSOF	Milwaukee	276.4	8:00-9:00	6:00-10:00	6:00-9:00	6:00-10:00	6:00-10:00	6:00-10:00	7:30-8:30
WUL	Iowa City	265.3	7:30-12:15	Silent	7:30-8:30	Silent	Silent	9:00-10:00	9:30-10:30
WULC	Worcester	516.9	5:30-10:00	5:30-10:00	5:30-10:00	5:30-10:00	5:30-9:30	5:30-9:30	5:00-8:15
WTAM	Cleveland	399.8	5:00-11:30	5:00-11:00	5:15-10:00	5:00-11:00	5:30-11:00	5:15-11:00	2:00-10:15
WTIC	Hartford	475.9	4:20-10:30	4:30-8:00	4:30-8:10	4:30-8:00	5:00-9:00	Silent	Silent
WWJ	Detroit	374.8	5:00-9:00	5:00-8:00	5:00-10:00	5:00-8:00	5:00-10:00	Silent	5:20-8:15

# LOCATION OF ALL NORTH AMERICAN BROADCASTING STATIONS

*Here is an alphabetical list of all cities in North America with broadcasting stations; it is of value when the call of the station is missed but the name of the city is heard; it includes American, Canadian, Mexican, Cuban and Haitian stations.*

Aberdeen, Wash.	-----	KXRO	Bristow, Okla.	-----	KVOC
Akron, Ohio	-----	WADC	Brookfield, Wis.	-----	WTMJ
Allentown, Pa.	-----	WCBA, WSAN	Brookings, S. D.	-----	KFDY, KGCR
Altoona, Pa.	-----	WFBG	Brooklyn, N. Y.	-----	WARS, WBBC,
Alva, Okla.	-----	KGFF		-----	WBKN, WBRB, WLTH, WMBQ,
Amarillo, Texas.	-----	KGRS, WDAG		-----	WPCH, WTRC.
Ames, Iowa	-----	WOI	Brookville, Ind.	-----	WKBY
Anchorage, Alaska	-----	KFQD	Brownsville, Texas	-----	KWVG
Anderson, Ind.	-----	WHBU	Buffalo, N. Y.	-----	WEBR, WGR,
Anita, N. D.	-----	KGFN		-----	WKBW, WSVS.
Arlington, Va.	-----	NAA	Burbank, Calif.	-----	KELW
Asbury Park, N. J.	-----	WDWM	Burlington, Iowa	-----	WIAS
Asheville, N. C.	-----	WWNC	Burlington, Vt.	-----	WCAX
Ashtabula, Ohio	-----	WJPW	Burnaby, B. C., Canada	-----	CFYC
Astoria, Oreg.	-----	KFJI	Calgary, Alta., Canada	-----	CFAC, CFCJ,
Astoria (L. I.) N. Y.	-----	WGBS		-----	CFCN, CNRC.
Atlanta, Ga.	-----	WGST, WSB	Cambridge, Ohio	-----	WEBE
Atlantic, Iowa	-----	KICK	Camden, N. J.	-----	WCAM
Atlantic City, N. J.	-----	WHAR, WPG	Camp Lake, Wis.	-----	WCLO
Atwood, Ill.	-----	WLBQ	Canton, N. Y.	-----	WCAD
Auburn, Ala.	-----	WAPI	Canton, Ohio	-----	WHBC
Auburn, N. Y.	-----	WMBO	Cape Girardeau, Mo.	-----	KFVS
Austin, Texas	-----	KUT	Cartersville, Mo.	-----	KFPW
Avalon, Calif.	-----	KFWO	Carthage, Ill.	-----	WCAZ
Baltimore, Md.	-----	WBAL, WCAO,	Cazenovia, N. Y.	-----	WMAC
	-----	WFBR, WCBM.	Cedar Grove, La.	-----	KGGH
Bangor, Maine	-----	WABI	Cedar Rapids, Iowa	-----	KWCR, WJAM
Barrett, Minn.	-----	KGDE	Charleston, S. C.	-----	WBRY
Batavia, Ill.	-----	WORD	Charlotte, N. C.	-----	WBT
Battle Creek, Mich.	-----	WKBP	Charlottetown, P. E. I., Canada	-----	CFCY
Bay City, Mich.	-----	WSKC	Chattanooga, Tenn.	-----	WDOD
Bayshore, N. Y.	-----	WRST	Chelsea, Mass.	-----	WRSC
Beaumont, Texas	-----	KFDM	Chicago, Ill.	-----	KFKX, KYW, WAAF,
Bellefontaine, Ohio	-----	WHBD		-----	WBRM, WBCN, WCFL, WCRW,
Beloit, Wis.	-----	WEBW		-----	WBBH, WEDC, WENR, WFKB,
Belvidere, Ill.	-----	WLBR		-----	WGES, WGN, WHFC, WHT, WIBO,
Berkeley, Calif.	-----	KRE		-----	WJAZ, WJBT, WKBI, WLIB, WLS,
Berrien Springs, Mich.	-----	WEMC		-----	WLTS, WMAQ, WMBB, WMBI,
Birmingham, Ala.	-----	WBRC		-----	WOK, WPCC, WQJ, WSAX, WSBG,
Bismarck, N. D.	-----	KFYR		-----	WVAE, WTAS.
Blytheville, Ark.	-----	KLCN	Chicago Heights, Ill.	-----	WJRB
Boise, Idaho	-----	KFAU	Chickasha, Okla.	-----	KOCW
Boone, Iowa	-----	KFGO	Chiluhua, Mexico	-----	CZF
Boston, Mass.	-----	WATT, WBET, WRIS,	Cienfuegos, Cuba	-----	6BY
	-----	WRZA, WEEL, WLBW, WMES,	Cincinnati, Ohio	-----	WAAD, WFBE,
	-----	WNAC, WSSH.		-----	WKRC, WLW, WSAI.
Boundbrook, N. J.	-----	WJZ	Clarinda, Iowa	-----	KSO
Brantford, Ont., Canada	-----	CFGC	Clay Center, Neb.	-----	KMMJ
Breckenridge, Texas	-----	KFYC	Clearwater, Fla.	-----	WFLA
Bridgeport, Conn.	-----	WICC			

Cleveland, Ohio-----WEAR, WHK,  
     WJAY, WTAM.  
 Cliffside, N. J.-----WCDA, WPAP, WQAO  
 Cobalt, Ont., Canada-----CKMC  
 College Station, Texas-----WTAW  
 Coleridgeville, Minn.-----WFBJ  
 Colorado Springs, Colo.-----KFUM  
 Columbia, Mo.-----KFRU  
 Columbus, Miss.-----WCOC  
 Columbus, Nebr.-----KGBY  
 Columbus, Ohio.-----WAIU, WCAH,  
     WEAO, WMAN.  
 Concordia, Kans.-----KGCN  
 Coney Island, N. Y.-----WCGU  
 Corvallis, Oreg.-----KOAC  
 Council Bluffs, Iowa-----KOIL  
 Cranston, R. I.-----WDWF, WLSI  
 Cresco, Iowa.-----KGDJ  
 Crown Point, Wis.-----WLBT  
 Culver, Ind.-----WCMA  
 Dallas, Texas.-----KRLD, WFAA, WRR  
 Danbury, Conn.-----WCWS  
 Davenport, Iowa.-----WOC  
 Dayton, Ohio.-----WSMK  
 Decatur, Ill.-----WJBL, WBAO  
 Decorah, Iowa.-----KGCA, KWLC  
 Dell Rapids, S. D.-----KGDA  
 Denver, Colo.-----KFEL, KFUP, KFXF,  
     KGEY, KLD, KOA, KOW.  
 Des Moines, Iowa.-----WHO  
 Detroit, Mich.-----WAFD, WBMH, WCX,  
     WWJ, WMBC.  
 Devils Lake, N. D.-----KDLR  
 Dover, Maine.-----WLBZ  
 Dublin, Texas.-----KFPL  
 Eau Claire, Wis.-----WTAQ  
 Edgewater, Colo.-----KFXJ  
 Edmonton, Alta., Canada.-----CHCY,  
     CHMA, CJCA, CKUA, CNRE.  
 El Centro, Calif.-----KGEN  
 Elgin, Ill.-----WGN, WLIB, WTAS  
 Elia, Cuba.-----7SR  
 Elizabeth, N. J.-----WIBS  
 Elkins Park, Pa.-----WIBG  
 El Paso, Texas.-----KFXH, WDAH  
 Endicott, N. Y.-----WNBK  
 Escanaba, Mich.-----WRAK  
 Eugene, Oreg.-----KGEH  
 Evanston, Ill.-----WEHS  
 Evansville, Ind.-----WGBF  
 Everett, Wash.-----KFBL  
 Fargo, N. D.-----WDAY  
 Farmingdale, N. Y.-----WLBH  
 Fayetteville, Ark.-----KUOA  
 Flagstaff, Ariz.-----KFXV  
 Flint, Mich.-----WFDF  
 Flushing, N. Y.-----WIBI  
 Fond Du Lac, Wis.-----KFIZ  
 Forest Park, Ill.-----WNBA  
 Fort Dodge, Iowa.-----KFJY  
 Fort Morgan, Colo.-----KGEW  
 Fort Wayne, Ind.-----WOWO, WCWK  
 Fort Worth, Texas.-----KFQB, KFJZ,  
     WPAP.  
 Frankford, Pa.-----WPKD  
 Fredericton, N. B., Canada.-----CFNB  
 Freeport, N. Y.-----WGBB  
 Fresno, Calif.-----KMFJ  
 Fridley, Minn.-----WRHM  
 Gadsden, Ala.-----WJBY

Galesburg, Ill.-----WFBZ, WKBS, WLBO,  
     WRAM.  
 Galveston, Texas.-----KFLX, KFUL  
 Gary, Ind.-----WJKS  
 Gloucester, Mass.-----WEPB  
 Grand Forks, N. D.-----KFJM  
 Grand Island, Neb.-----KGHO  
 Grand Rapids, Mich.-----WOOD, WASH  
 Greeley, Colo.-----KFKA  
 Greensboro, N. C.-----WNRC  
 Greenville, Texas.-----KPPM  
 Grove City, Pa.-----WSAJ  
 Gunnison, Colo.-----KFHA  
 Habana, Cuba.-----PWX, 20K, 20L  
 Hallock, Minn.-----KGFK  
 Harlingen, Texas.-----KHMC  
 Harrisburg, Ill.-----WBBQ  
 Harrisburg, Pa.-----WBAK, WPRC,  
     WMBS.  
 Harrison, Ohio.-----WLW  
 Hartford, Conn.-----WVIC  
 Havre, Mont.-----KFPB  
 Halifax, N. S., Canada.-----CHNS  
 Hamilton, Ont., Canada.-----CHCS, CKOC  
 Hollywood, Calif.-----KFPZ, KMTR  
 Holy City, Calif.-----KRFU  
 Homewood, Ill.-----WOK  
 Honolulu, Hawaii.-----KGU  
 Hopkinsville, Ky.-----WFIW  
 Hot Springs, Ark.-----KTHS  
 Houston, Texas.-----KFVI, KPRC, KTDW  
 Humboldt, Nebr.-----KGDV  
 Huntington, W. Va.-----WSAZ  
 Huntsville, Ont., Canada.-----CHCO  
 Independence, Kans.-----KFGV  
 Independence, Mo.-----KLDS  
 Indianapolis, Ind.-----WFBM, WKBF  
 Inglewood, Calif.-----KMIC  
 Iowa City, Iowa.-----KGFV, WSUI  
 Iron Mountain, Mich.-----WLBV  
 Iroquois Falls, Ont., Canada.-----CFCH  
 Ithaca, N. Y.-----WLCI  
 Jacksonville, Fla.-----WJAX  
 Jamaica, N. Y.-----WOCJ  
 Jamestown, N. Y.-----WOCJ  
 Jeanette, Pa.-----WGM  
 Jefferson City, Mo.-----WOS  
 Jerome, Idaho.-----KFND  
 Jersey City, N. J.-----WKBO, WAAT  
 Johnstown, Pa.-----WHBP  
 Joliet, Ill.-----WCLS, WJBA, WKBB  
 Joplin, Mo.-----WMBH  
 Juneau, Alaska.-----KPIU  
 Kalispell, Mont.-----KGEZ  
 Kamloops, B. C., Canada.-----CFJC  
 Kansas City, Mo.-----KWKC, WDAF,  
     WHB, WLBF, WOQ.  
 Kellogg, Idaho.-----KFEY  
 Kenmore, N. Y.-----WKEN  
 Ketchikan, Alaska.-----KGBU  
 King, Ont., Canada.-----CFRB  
 Kingston, Ont., Canada.-----CFMC  
 Kingston, Pa.-----WABF  
 Kirksville, Mo.-----KFKZ  
 Knoxville, Tenn.-----WFBC, WNBK,  
     WNOX.  
 Kokomo, Ind.-----WJAK  
 Lacey, Wash.-----KGY  
 Laconia, N. H.-----WKAV  
 La Crescenta, Calif.-----KGFH

La Crosse, Wis.-----WKBH  
 Lafayette, Ind.-----WBAA  
 Lakeland, Fla.-----WMBL  
 Lancaster, Pa.-----WGAL, WKJC  
 Lansing, Mich.-----WKAR  
 La Porte, Ind.-----WRAF  
 Lapeer, Mich.-----WMPG  
 Laramie, Wyo.-----KFBU  
 La Salle, Ill.-----WJBC  
 Lawrence, Kans.-----KFKU, WREN  
 Lawrenceburg, Tenn.-----WVAN  
 Lemars, Iowa-----KWUC  
 Lewisburg, Pa.-----WJBU  
 Lexington, Mass.-----WLEX  
 Lincoln, Nebr.-----KFAB, WCAJ, KFOR  
 Lockport, N. Y.-----WMAK  
 London, Ont., Canada-----CJGC  
 Long Beach, Calif.-----KFON, KGER  
 Long Island City, N. Y.-----WLBX  
 Los Angeles, Calif.-----KFI, KFPR,  
 KFSG, KFWB, KGEF, KGEJ,  
 KHJ, KNX, KPFA, KRLO, KTBI.  
 Louisville, Ky.-----WHAS, WLAP  
 Lower Lake, Calif.-----KGEU  
 Ludington, Mich.-----WKBZ  
 Macon, Ga.-----WMAZ  
 Madison, Wis.-----WHA, WIBA  
 Mandan, N. D.-----KGCU  
 Manhattan, Kans.-----KSAC  
 Manila, P. I.-----KZRQ, KZKZ  
 Manitowoc, Wis.-----WOMT  
 Mansfield, Conn.-----WCAC  
 Mansfield, Ohio.-----WLBV  
 Marshalltown, Iowa.-----KFJB  
 Mazatlan, Mexico.-----CYR  
 Medford, Oreg.-----KMED  
 Memphis, Tenn.-----WGBC, WHBQ,  
 WMBM, WMC, WNBR, WREC.  
 Merida, Mexico.-----CYY  
 Mexico City, Mexico.-----CYA, CYB,  
 CYH, CYJ, CYL, CYO, CYX, CZE.  
 Miami, Fla.-----WMBF, WIOD, WQAM  
 Midland, Ont., Canada-----CKPR  
 Midland Park, N. J.-----WTRL  
 Middletown, Ohio.-----WSR  
 Milford, Kans.-----KFKB  
 Milwaukee, Wis.-----GWGB, WHAD,  
 WSOE.  
 Minneapolis, Minn.-----KFDZ, KGEQ,  
 WAMD, WCCO, WDGY, WHDI,  
 WLB.  
 Mission City, B. C., Canada-----CJCU  
 Missoula, Mont.-----KUOM  
 Mitchell, S. D.-----KGFP  
 Moncton, N. B., Canada-----CNRA  
 Monroese, Pa.-----WMBJ  
 Monroeville, Mich.-----WKBL  
 Montgomery, Ala.-----WIBZ  
 Montreal, Que., Canada-----CFCF, CHYC,  
 CKAC, CNRM.  
 Moose Jaw, Sask., Canada-----CJRN  
 Mooseheart, Ill.-----WJJD  
 Mt. Clemens, Mich.-----WGHP  
 Mt. Prospect, Ill.-----WJAZ  
 Mt. Vernon Hills, Va.-----WTFF  
 Muncie, Ind.-----WLBC  
 Muscatine, Iowa-----KPNP, KTNT  
 Nashville, Tenn.-----WBAW, WDAD,  
 WLAC, WSM.  
 Newark, N. J.-----WAAM, WGCP, WNJ,  
 WOR.  
 New Bedford, Mass.-----WNBH  
 New Haven, Conn.-----WDBC  
 New Orleans, La.-----WABZ, WCBF,  
 WJBO, WJBW, WKBT, WSMB,  
 WWL.  
 New York, N. Y.-----WBNY, WBBQ  
 WBAF, WBBJ, WGBS, WGL,  
 WHAP, WHN, WHPP, WJZ,  
 WKBO, WLWL, WMCB, WMSG,  
 WNYC, WRNY, WSDA, WSOM.  
 Norfolk, Neb.-----WJAG  
 Norfolk, Va.-----WBBW, WRCV, WTAR  
 Norman, Okla.-----WNAD  
 Northfield, Minn.-----KFMX, WCAL  
 North Plainfield, N. J.-----WEAM  
 Oakland, Calif.-----KFUS, KFWM, KGO,  
 KLS, KLL, KTAB, KZM.  
 Oaxaca, Mexico.-----CYF  
 Ogden, Utah.-----KFUR  
 Oil City, Pa.-----WHBA, WLBW  
 Oklahoma City, Okla.-----KFJF, KFJR,  
 KGCB, KGFB, KGEF, WKY.  
 Oldham, S. D.-----KGDY  
 Omaha, Nebr.-----WAAW, WOW,  
 WNAL, KFOX, KOCH.  
 Omro, Wis.-----WJBR  
 Orlando, Fla.-----WDBO  
 Oskaloosa, Iowa.-----KPHL  
 Ottawa, Ont., Canada-----CHXC, CKCO,  
 CNRO.  
 Parkersburg, Pa.-----WQAA  
 Pasadena, Calif.-----KPPC, KPNS  
 Paterson, N. J.-----WODA  
 Pawtucket, R. I.-----WFCE  
 Peekskill, N. Y.-----WOKO  
 Pensacola, Fla.-----WCOA  
 Peoria, Ill.-----WMBD  
 Petersburg, Va.-----WLBG  
 Petoskey, Mich.-----WRBP  
 Philadelphia, Pa.-----WABQ, WABY,  
 WCAU, WFI, WHBW, WIAD, WIP,  
 WLIT, WNAT, WOO, WPSW,  
 WRAX.  
 Phoenix, Ariz.-----KFAD, KFCB  
 Picher, Okla.-----KGGF  
 Pierce, S. Dak.-----KGFN  
 Pittsburgh, Pa.-----KDKA, KQV, WCAE,  
 WJAS, WMBU.  
 Pocatello, Idaho.-----WSEI  
 Poindette, Wis.-----WIBU  
 Pontiac, Mich.-----WJRP  
 Portland, Me.-----WCSH  
 Portland, Oreg.-----KEX, KPFC,  
 KFIF, KFJR, KGW, KLIT, KOIN,  
 KTER, KTRB, KWBS, KWJJ,  
 KXL.  
 Port au Prince, Haiti.-----HHK  
 Portsmouth, R. I.-----WSAR  
 Prescott, Ariz.-----CFJM  
 Prescott, Ont., Canada-----CFLC  
 Providence, R. I.-----WCOT, WEAN,  
 WJAR, WLSI, WRAH.  
 Pueblo, Mexico.-----CYU  
 Pueblo, Colo.-----KGDY  
 Pullman, Wash.-----KWSC  
 Quebec, Que., Canada-----CHRC, CKCV,  
 CKCI.

Quincy, Ill.-----WTAD  
 Quincy, Mass.-----WBES  
 Racine, Wis.-----WRBS, WBS  
 Raleigh, N. C.-----WBCO  
 Rapid City, S. D.-----WCAT  
 Ravenna, Neb.-----KGFV  
 Reading, Pa.-----WRAW  
 Red Bank, N. J.-----WJBI  
 Red Deer, Alta., Canada-----CHLC  
 Regina, Sask., Canada-----CHWC, CKCK,  
 CJBE, CNRR.  
 Richmond, Va.-----WBBL, WMBG, WBOA  
 Richmond Hill, N. Y.-----WABC, WRVQ,  
 WGMU.  
 Roanoke, Va.-----WDBJ  
 Rochester, N. Y.-----WABO, WHAM,  
 WHEC, WNBQ, WOKT.  
 Rockford, Ill.-----KFLV  
 Rock Island, Ill.-----WHBF  
 Rossville, N. Y.-----WRBR  
 Royal Oak, Mich.-----WAGM  
 Sacramento, Calif.-----KFBK  
 Salt Lake City, Utah-----KDYL, KFUT,  
 KSL.  
 Salvador, Salvador-----AQM  
 San Angelo, Texas-----KGF1  
 San Antonio, Texas-----KGCI, KGDR,  
 KGRC, KTAP, KTSA, WOAI.  
 San Bernardino, Calif.-----KFVC  
 San Diego, Calif.-----KFBC, KFSD,  
 San Francisco, Calif.-----KFRC, KFVI,  
 KGTT, KJBS, KPO, KYA.  
 San Jose, Calif.-----KQW  
 San Juan, P. R.-----WKAQ  
 Santa Ana, Calif.-----KWTC  
 Santa Barbara, Calif.-----KFRC  
 Santa Maria, Calif.-----KSMR  
 Santa Monica, Calif.-----KNRC  
 Saskatoon, Sask., Canada-----CFQC,  
 CHUC, CJWC, CNRS.  
 Scarborough, Ont., Canada-----CJYC, CKCX  
 Schenectady, N. Y.-----WGY  
 Scranton, Pa.-----WQAN, WGBI  
 Sea Island, B. C., Canada-----CJOR  
 Seattle, Wash.-----KFOA, KFQW,  
 KGBS, KGCL, KJR, KKP, KOMO,  
 KPCB, KRSC, KTCL, KTW, KUJ,  
 KVOS.  
 Shenandoah, Iowa-----KFNF, KMA  
 Shreveport, La.-----KFDX, KGDX,  
 KRAC, KSB, KWKH.  
 Sioux City, Iowa-----KFMR, KSCJ  
 Sioux Falls, S. D.-----KSOO  
 South Bend, Ind.-----WSBT  
 South Dartmouth, Mass.-----WMAF  
 South Kenosha, Wis.-----WKDR  
 Spokane, Wash.-----KHQ, KPFO, KFPY,  
 KGA.  
 Springfield, Ill.-----WCBS  
 Springfield, Mass.-----WBZ  
 Springfield, Ohio-----WCSO  
 Springfield, Tenn.-----WSIX  
 Springfield, Vt.-----WNBX  
 St. Cloud, Minn.-----WFAM  
 St. Hyacinthe, Que., Canada-----CKSH  
 St. Joseph, Mo.-----KFEQ, KGBX  
 St. Louis, Mo.-----KFQA, KFUD,  
 KFVE, KFVF, KMOX, KSD,  
 WEW, WIL, WMAV, WSBF.  
 St. Paul, Minn.-----KFOY, WMBE

State College, N. M.-----KOB  
 State College, Pa.-----WPSC  
 Steubenville, Ohio-----WIBR  
 Stevens Point, Wis.-----WLBL  
 Stockton, Calif.-----KGDM, KWG  
 Streator, Ill.-----WTAX  
 Summerside, P. E. I., Canada-----CHLC  
 Superior, Wis.-----WBCB  
 Syracuse, N. Y.-----WFBL, WSYR  
 Toccoa, Georgia-----WTFI  
 Tacoma, Wash.-----KMO, KVI  
 Takoma Park, Md.-----WBES  
 Tampa, Fla.-----WJBB, WDAE, WMBR  
 Tampico, Mexico-----CYQ  
 Taunton, Mass.-----WAIT  
 Terre Haute, Ind.-----WRPI  
 Toledo, Ohio-----WTAL  
 Toronto, Ont., Canada-----CFCA, CHIC,  
 CHNC, CJBC, CJSC, CKCL, CKNC,  
 CKSM, CNRT.  
 Trenton, N. J.-----WOAX  
 Trinidad, Colo.-----KGFL  
 Troy, N. Y.-----WHAZ  
 Tucson, Ariz.-----KGR  
 Tuinco, Cuba-----GJK, 6KW  
 Tuscola, Ill.-----WDZ  
 Union City, N. J.-----WBMS  
 Unity, Sask., Canada-----CHSC  
 Urbana, Ill.-----WRM  
 Utica, N. Y.-----WIBX  
 Valparaiso, Ind.-----WRBC  
 Vancouver, B. C., Canada-----CFQC,  
 CFCT, CKCD, CKFC, CHPC,  
 CKWX, CNRV.  
 Venice, Calif.-----KFVD  
 Vermillion, S. D.-----KUSD  
 Vida, Mont.-----KGCC  
 Virginia Beach, Va.-----WSEA  
 Waco, Texas-----WJAD  
 Walla Walla, Wash.-----KOWW  
 Washington, D. C.-----WMAL, WRC,  
 WRHF.  
 Washington, Pa.-----WNBO  
 Waukegan, Ill.-----WPFP  
 Wayne, Neb.-----KGCH  
 Webster, Mass.-----WKBE  
 Wellesley Hills, Mass.-----WBSO  
 Wenona, Ill.-----WLB1  
 West de Pere, Wis.-----WHBY  
 Wheeling, W. Va.-----WVVA  
 Wichita, Kans.-----KPH  
 Wilkes-Barre, Pa.-----WBAX  
 Willow Grove, Pa.-----WALK  
 Wilmington, Del.-----WDEL  
 Winnipeg, Manitoba, Canada-----CKY,  
 CNRW.  
 Woodside, N. Y.-----WVRL  
 Woodhaven, N. Y.-----WEVD  
 Wooster, Ohio-----WABV  
 Worcester, Mass.-----WEPS, WTAG  
 Yankton, S. D.-----WNAX  
 Yellow Springs, Ohio-----WRAV  
 York, Neb.-----KGBZ  
 Yorkton, Sask., Canada-----CJGX  
 Youngstown, Ohio-----WKBN, WMBW  
 Ypsilanti, Mich.-----WJBK  
 Yuba City, Calif.-----KGFV  
 Yuma, Colo.-----KGBK  
 Zion, Ill.-----WCB

## COAST-TO-COAST RECEPTION OF RADIO PROGRAMS EXPECTED

(Continued from page 5)

practicable on the basis of the allocations now in force. It requires no sweeping changes, but only a clear picture of the ideal to be attained, and a steady, careful improvement of existing conditions.

To bring this improvement about, many stations which have rendered a service of doubtful or very limited value will have to change their frequencies, and in many cases, where the equipment used or the personnel available are inadequate for satisfactory operation, licenses will have to be revoked.

The essential thing is to realize what the Commission has in mind, and that it is working toward the goal by what it conceives to be orderly and natural rather than autocratic and arbitrary methods.

There are, however, many stations which are rendering a very valuable service within a limited area, and which can continue to render such service without needing excessively high power.

Gradually these stations can be brought together on frequencies where, although long-distance reception will be difficult, there will be little or no interference within the normal service ranges.

Here again, the Commission is proceeding along lines of normal, orderly development, letting the record of each station speak as its

most eloquent proof of the character of the service actually rendered, and of the extent of the area which it is qualified to serve.

In all its allocations, the Commission must of necessity be guided by the spirit and letter of the law, which provides for equitable distribution of broadcasting facilities among the states. We cannot, therefore, permit such a concentration of the high-powered stations, with completely cleared frequencies, as will give these privileges to only a few communities.

In all these matters, we must be guided by the needs of the listening public, by the law, and by the demonstrated ability of the broadcasters themselves to render public service.

What we want you to realize is that, proceeding on this basis, we have a clear vision of the goal to be attained, both for the long-distance listener and for local service.

We recognize that much remains to be done, but we feel convinced that we are definitely on the right road and that a condition can be brought about which will provide satisfaction throughout our entire country.

To the people of the United States, the message of the Commission is this: "the future of radio is in your hands to become whatever you choose to make of it. It is you who must tell the broadcasters what they shall and shall not send out; it is you who will make possible the vast developments of radio which lie ahead."

## TELEVISION MAY BE ACHIEVED SOON

(Continued from page 8)

small holes, sweeping the face or object whose image is to be sent out.

The light beams travel across the face at a speed of 18 times per second. There are fifty light beams, or 900 light targets per second, due to 50 holes in the disk.

As the light beams move across the face, rays of light with constantly changing angles of incidence are reflected from the face and impinged upon some part of the photo-electric cells.

These light rays are changed to feeble electric currents by the photo-electric cells.

A special vacuum tube amplifier of several stages magnifies the very minute fluctuating currents coming from the photo-electric cells. They are magnified 5,000,000,000,000 times.

The amplified currents then enter a radio transmitter and are sent out on the air.

A standard receiving set picks up the image signal. After it is sufficiently amplified, it is passed into a neon tube, placed directly behind a second revolving disk having the same number of perforations as the disk at the transmitting station. The person at the receiver simply looks into a small mirror at the swiftly moving pulses of light as they become visible through the whirling holes in the spinning disk.

## POOR RECEPTION CAUSED BY IMPERFECT ANTENNA

**P**OOR radio reception may be due to an imperfect antenna or ground system. Here are a few pointers which may be of value:

It is better to have the antenna run continuously and not have a separate lead from the antenna to the set. The antenna should be kept as far as possible from tin roofs, metal pipes, power lines, telephone wires, metal gutters, etc.

No. 18 Phosphor bronze wire or No. 18 hard drawn copper wire are best. A soft copper wire will sag and will not give satisfactory results.

When the antenna is run along the molding, it should not parallel the telephone or bell wires. All connections should be soldered for best results.

If an outdoor antenna is not feasible, use a regular antenna plug that can be inserted into any electric light socket. This gives an antenna connection to the house wiring system without using any current.

The ground lead should be as short as possible and should be firmly connected, preferably soldered, to a cold water or steam radiator pipe.

A ground can be provided by driving a six foot length of iron pipe into the ground directly outside the window nearest the receiver and making a connection directly to this pipe.



## WOULD YOU LIKE TO GET TWICE AS MANY STATIONS WITH YOUR SET?

The following article will tell you how to find out where each wave length comes in on your dials, enabling you to search systematically for stations:

**D**O you know how to find the wave lengths on your set?

Almost twice as many stations can be brought in with the receiver if you know just where they should come in on the dials. It is the difference between hunting blindly and searching in a small place for something you know is there.

It can be done by learning the relationship between the numbers on the dials of the receiver and the wave lengths. By use of the Broadcasting Log on the following pages, it is very simple indeed.

Get a station with your set. Find out what its wave length is. Suppose the station's wave is 470 meters and that it comes in at 75; therefore, 75 represents 470 meters. Mark down the dial setting in the log.

Then get another station. Find out what its wave length is. Suppose the station's wave is 400 meters and it comes in at 60; therefore, 60 represents 400 meters. Mark down the dial settings in the log.

Carry out the above plan all the way across the dials.

Then you will be able to figure approximately where any wave

length should come in on the set. Suppose you wanted to get station XYZ. Looking it up in the list of stations, you discover that its wave is 430 meters. Immediately, you will know that it should come in around 68 on the dials, because 75 represents 470 and 60 represents 400, and 430 is about half way between.

The distance at which a station can be heard depends on the power it uses. Stations of 1,000 watts or more are sufficiently powerful to be heard in large areas under favorable reception conditions.

**FOR THIS REASON, STATIONS OF 1,000 WATTS OR MORE POWER ARE LISTED IN BOLD FACE TYPE IN THE BROADCASTING LOG ON THE FOLLOWING PAGES.**

Inspection of the Broadcasting log should enable the listener to determine very quickly which stations should be received. Calculate the distance and the power of the station and you can tell whether you should be able to get it.

**IN THE BROADCASTING LOG, THE POWER OF THE STATION IS SHOWN IN PARENTHESIS AFTER THE LOCATION.**

# BROADCASTING LOG WITH STATIONS LISTED BY WAVE LENGTHS

All North American broadcasting stations of 100 watts or more power are here listed according to frequency in kilocycles and wave length in meters, with the power of each station in parenthesis following the location. Since it is unusual with most sets to pick up distant stations of less than 100 watts power, they are not included in this list. Stations of 1,000 watts or more power are listed in bold face type.

Miles	Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
				No. 1	No. 2	No. 3
	550	545.1	KFKA—Greeley, Colo. (200)			
			KSD—St. Louis, Mo. (500)			
			WHAZ—Troy, N. Y. (500)			
			WMAK—Lockport, N. Y. (750)			
905	560	535.4	KFBK—Sacramento, Calif. (100)			
			WCAC—Mansfield, Conn. (500)			
			<b>WHO—Des Moines, Iowa (5,000)</b>	87	87	88
			WTIC—Hartford, Conn. (500)			
678	570	526	<b>KFKX—Chicago, Ill. (2,500)</b>			
			KMTR—Los Angeles, Calif. (500)			
			<b>KYW—Chicago, Ill. (2,500)</b>	83	86	86
			WNYC—New York, N. Y. (500)			
	580	516.9	WCAE—Pittsburgh, Pa. (500)	85	85	86
			WMC—Memphis, Tenn. (500)			
			WTAG—Worcester, Mass. (500)			
			CHMA—Edmonton, Alta. (250)			
			CHYC—Edmonton, Alta. (250)			
			CJCA—Edmonton, Alta. (500)			
			CKUA—Edmonton, Alta. (500)			
			CNRE—Edmonton, Alta. (500)			
	590	508.2	KLX—Oakland, Calif. (500)			
			WIP—Philadelphia, Pa. (500)			
			WOO—Philadelphia, Pa. (500)			
			<b>WOW—Omaha, Nebr. (1,000)</b>			
1170	600	499.7	WAAW—Omaha, Nebr. (500)			
			<b>WBAP—Fort Worth, Tex. (1,500)</b>	52	23	85

Miles	Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
				No. 1	No. 2	No. 3
	600	499.7	WFAA—Dallas, Texas (500) CFCH—Iroquois Falls, Ont. (250)	-----	-----	-----
287	610	491.5	KGW—Portland, Oreg. (1,000) WEAF—New York, N. Y. (5,000) WSKC—Bay City, Mich. (250)	81-82-82		
618	620	483.6	KUSD—Vermilion, S. D. (250) KFDM—Beaumont, Texas (500) WCFL—Chicago, Ill. (1,500) WEMC—Berrien Springs, Mich. (1,000) WLTS—Chicago, Ill. (100) WTAW—College Station, Tex. (500) AQM—Salvador, Salvador (500)	80-80-82	80-80-80	
470	630	475.9	WSB—Atlanta, Ga. (1,000) WSUI—Iowa City, Iowa (100) CJGX—Yorkton, Sask. (500) CYR—Mazathan, Mexico (250)	78-79-80		
96	640	468.5	KFI—Los Angeles, Calif. (5,000) WRC—Washington, D. C. (500)	77½-78-79		
457	650	461.3	KFNF—Shenandoah, Iowa (2,000) KRLD—Dallas, Texas (500) KUOM—Missoula, Mont. (500) WHAS—Louisville, Ky (500) WNAC—Boston, Mass. (500) WRR—Dallas, Texas (500)	75-77-77		
	660	454.3	KFRC—San Francisco, Calif. (500) WJZ—Bound Brook, N. J. (30,000)	72-76-77		
	670	447.5	KFOA—Seattle, Wash. (1,000) WMAQ—Chicago, Ill. (1,000) WQJ—Chicago, Ill. (500)			
445	680	440.9	KFSD—San Diego, Calif. (500) WJR—Pontiac, Mich. (5,000)	72-73-74		
	690	434.5	NAA—Arlington, Va. (1,000) CFAC—Calgary, Alberta (500) CFCJ—Calgary, Alta. (250) CFCN—Calgary, Alberta, (1,800) CHXC—Ottawa, Ont. (250) CKCO—Ottawa, Ont. (100)			

Miles	Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
				No. 1	No. 2	No. 3
	690	434.5	CNRC—Calgary, Alberta (750) CNRO—Ottawa, Ont. (500)-----			
	700	428.3	KFBU—Laramie, Wyo. (500) WCSH—Portland, Maine (500) WLW—Cincinnati, Ohio (5,000) 70½-71½-72 CYO—Mexico City, Mexico (100)-----			
399		710	422.3 KPO—San Francisco, Calif. (1,000) WOR—Newark, N. J. (500) 69-70-71 WOS—Jefferson City, Mo. (500)-----			
	720	416.4	KHJ—Los Angeles, Calif. (500) WHT—Chicago, Ill. (5,000) 65-69-70 WIBO—Chicago, Ill. (500) 65-69-70 WMAF—S. Dartmouth, Mass. (1,000) WEN—Chicago 15,000 66-69-70 Chicago Tribune			
618 618		730	410.7 CFCF—Montreal, Quebec (1,650) CFYC—Burnaby, B. C. (500) CHPC—Vancouver, B. C. (1,000) CKAC—Montreal, Que. (1,200) CKCD—Vancouver, B. C. (1,000) CNRM—Montreal, Que. (1,000)-----			
	740	405.2	WCCO—Minneapolis, Minn. (5,000) WFI—Philadelphia, Pa. (500) WLIT—Philadelphia, Pa. (500)-----			
	750	399.8	KLZ—Denver, Colo. (1,000) WEAR—Cleveland, Ohio, (1,000) WTAM—Cleveland, Ohio (5,000) 65-65-70 CYJ—Mexico City, Mexico (2,000) CYL—Mexico City, Mexico (500) PWX—Habana, Cuba (500)-----61-66-68-----			
353		760	394.5 KFDY—Brookings, S. D. (500) KMA—Shenandoah, Iowa (500) KOB—State College, N. M. (5,000) KTW—Seattle, Wash. (1,000) KWKH—Shreveport, La. (1,000) 62½-64-65+65-65-66 KDSC—Pullman, Wash. (500) WHN—New York, N. Y. (500) WPAP—Cliffside, N. J. (500) WQAO—Cliffside, N. J. (500)-----			
985						

Miles

Freq. Kilo.	W. L. Mets.	Station Call.	Location and Power	Dial Setting		
				No. 1	No. 2	No. 3
618 618	389.4	WAAF—Chicago, Ill. (500)				
		WABI—Bangor, Maine (100)				
		WBBM—Chicago, Ill. (1,000)			60-63-65	
		WJBT—Chicago, Ill. (500)			61-63-64	
406	384.4	KGO—Oakland, Calif. (5,000)				
		KTHS—Hot Springs, Ark. (1,000)				
		WBSO—Wellsley Hills, Mass. (100)				
		WCAO—Baltimore, Md. (250)				
		WCBM—Baltimore, Md. (100)				
		WSRO—Hamilton, Ohio (100)				
		WMBF—Miami Beach, Fla. (500)				
		CKY—Winnipeg, Manitoba (500)				
		CNRW—Winnipeg, Man., (500)				
406	379.5	WCAJ—Lincoln, Nebr. (500)				
		WGY—Schenectady, N. Y. (50,000)			59-60-60	58-60-65
618	374.8	KNRC—Santa Monica, Calif. (500)				
		WOC—Davenport, Iowa (5,000)			57-59-60	
		WJAR—Providence, R. I. (500)				
		CYH—Mexico City, Mexico (100)				
399	370.2	KHQ—Spokane, Wash. (1,000)				
		WDAF—Kansas City, Mo. (1,000)				
		WLWL—New York, N. Y. (1,000)			55-58-58	
		WMCA—New York, N. Y. (500)				
399	365.6	WEBH—Chicago, Ill. (2,000)			53-58-60	
		WEEL—Boston, Mass. (500)				
		WJJD—Mooseheart, Ill. (1,000)			54-57-59	
399	361.2	KFWB—Los Angeles, Calif. (500)				
		WDAY—Fargo, N. D. (250)				
		WSAI—Cincinnati, Ohio (5,000)			53-55-55	
		HHK—Port au Prince, Haiti (1,000)				
399	356.9	CFCA—Toronto, Ont. (500)				
		CHIC—Toronto, Ont. (500)				
		CHNC—Toronto, Ont. (500)				
		CJBC—Toronto, Ont. (500)				
		CJSC—Toronto, Ont. (500)				
		CKCL—Toronto, Ont. (500)				
		CKLC—Red Deer, Alta. (1,000)				

Miles	Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
				No. 1	No. 2	No. 3
	840	356.9	CKNC—Toronto, Ont. (500) CKSM—Toronto, Ont. (500) CNRT—Toronto, Ont. (500)-----			
	850	352.7	WEW—St. Louis, Mo. (1,000) WOC—Davenport, Iowa (5,000) <i>58-60-60</i> WWG—Detroit, Mich. (1,000)-----			
	860	348.6	KJR—Seattle, Wash. (2,500) KVOO—Bristow, Okla. (1,000) WAAM—Newark, N. J. (500) WFDF—Flint, Mich. (100) WGBS—New York, N. Y. (500) 2OK—Habana, Cuba (100) CZE—Mexico City, Mexico (500)-----			
	870	344.6	KFQD—Anchorage, Alaska (100) WCB D—Zion, Ill. (5,000) <i>50-53-53</i> WJBB—St. Petersburg, Fla. (250) WLS—Chicago, Ill. (5,000)----- <i>50-53-53</i>			
<i>618</i>						
<i>526</i>	880	340.7	WKAQ—San Juan, P. A. (500) WSM—Nashville, Tenn. (5,000) <i>45-53-53 = 39-50½-50½</i> 6KW—Tuincu, Cuba (4,000)-----			
	890	336.9	KNX—Los Angeles, Calif. (500) WHB—Kansas City, Mo. (500) WJAX—Jacksonville, Fla (1,000) <i>47-51-51 = 45-50½-50½</i> WOQ—Kansas City, Mo. (250) WWVA—Wheeling, W. Va. (250)-----			
<i>953</i>						
	900	333.1	KFJM—Grand Forks, N. D. (100) KFQB—Ft. Worth, Texas (1,000) KSAC—Manhattan, Kans. (500) KSEI—Pocatello, Idaho (250) WBZ—Springfield, Mass. (15,000) <i>42-47-47 = 45-50-50</i> WBZA—Boston, Mass. (500) WJAD—Waco, Texas (500)-----			
	910	329.5	CFCT—Vancouver, B. C. (500) CFQC—Saskatoon, Sask. (500) CHUC—Saskatoon, Sask. (500) CJGC—London, Ont. (500) CJWC—Saskatoon, Sask. (250)-----			

*Miles*

Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
			No. 1	No. 2	No. 3
910	329.5	CNRS—Saskatoon, Sask. (500) CYX—Mexico City, Mexico (500) -----			
920	325.9	KOA—Denver, Colo. (5,000) - WABC—Richmond Hill, N. Y. (2,500) WAPI—Auburn, Ala. (1,000) WBOQ—Richmond Hill, N. Y. (500) -----			
930	322.4	KICK—Atlantic, Iowa (100) WGHP—Detroit, Mich. (750) WIAS—Burlington, Iowa (100) WQAM—Miami, Fla. (750) WRHF—Washington, D. C. (150) WSMB—New Orleans, La. (500) CHNS—Halifax, N. S. (100) CNRA—Moncton, N. B. (500) CYQ—Tampico, Mexico (100) -----			
940	319	<i>WBT - Charlotte, N.C. 1000</i> 40-48-48 KOIN—Portland, Oreg., (1,000) WEAN—Providence, R. I. (500) WGHP—Mt. Clemens, Mich. (750) WOAI—San Antonio, Texas (5,000) -----			
247	950	315.6 KDKA—Pittsburgh, Pa. (50,000) 40-45-45 KPSN—Pasadena, Calif. (1,000) -----			
960	312.3	CFCY—Charlottetown, P. E. I. (100) CJBR—Regina, Sask. (500) CKCK—Regina, Sask. (500) CNRR—Regina, Sask. (500) CYU—Puebla, Mexico (100) -----			
970	309.1	KFAB—Lincoln, Nebr. (2,000) KYA—San Francisco, Calif. (500) WPCH—Brooklyn, N. Y. (500) WRNY—New York, N. Y. (500) CZF—Chiluhua, Mexico (250) -----			
618	980	305.9 KOMO—Seattle, Wash. (1,000) WGN—Chicago, Ill. (15,000) <del>32-42-42-35-40-40</del> WLIB—Chicago, Ill. (15,000) <del>0-42-42-0-43-44</del> 65			
618	990	302.8 KSL—Salt Lake City, Utah (1,000) WBIS—Boston, Mass. (100) WGR—Buffalo, N. Y. (750) -----			

*Miles*

Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
			No. 1	No. 2	No. 3
990	302.8	WHA—Madison, Wis. (750) <b>WLBL—Stevens Point, Wis. (1,000)</b> WNAX—Yankton, S. D. (250)-----			
699	1000	KFWO—Avalon, Calif. (250) <b>KMOX—St. Louis, Mo. (5,000)</b> 36 1/2-35-35 KOWW—Walla Walla, Wash. (500) WBAK—Harrisburg, Pa. (500) WPSC—State College, Pa. (500) CYA—Mexico City, Mexico (500)-----			
1010	296.9	KQW—San Jose, Calif. (500) KUOA—Fayetteville, Ark. (500) WADC—Akron, Ohio (500) WDEL—Wilmington, Del. (100) WPES—Gloucester, Mass. (100) WRAV—Yellow Springs, Ohio (100) WSMK—Dayton, Ohio (200) <b>WWNC—Asheville, N. C. (1,000)</b> 10-30-31-----			
1020	293.9	KGCH—Wayne, Nebr. (250) KPRC—Houston, Texas (500) WGL—New York, N. Y. (500) KGCH—Wayne, Nebr. (250) WLBW—Oil City, Pa. (500) <b>WODA—Paterson, N. J. (1,000)</b> <b>WTMJ—Milwaukee, Wis. (1,000)</b> -----			
1030	291.9	<b>CFRB—King, Ont. (1,000)</b> CJYC—Scarboro, Ont. (500) CKCX—Scarboro, Ont. (500)-----			
1040	288.3	KGBX—St. Joseph, Mo. (100) KTBI—Los Angeles, Calif. (500) WBCN—Chicago, Ill. (250) WBET—Boston, Mass. (500) WDBO—Orlando, Fla. (500) WENR—Chicago, Ill. (500) WFLA—Clearwater, Fla. (500) WIAD—Philadelphia, Pa. (100) WKY—Oklahoma City, Okla. (150) WNAT—Philadelphia, Pa. (100) WSSH—Boston, Mass. (100)-----			



Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
			No. 1	No. 2	No. 3
1050	285.5	<b>KFAU—Boise, Idaho (2,000)</b>			
		KFOY—St. Paul, Minn. (250)			
		KMMJ—Clay Center, Nebr. (250)			
		<b>WBAL—Baltimore, Md. (5,000)</b>	<b>20-35-20</b>		
		WJAG—Norfolk, Nebr. (250)			
		WKAR—East Lansing, Mich. (500)			
		WOAN—Lawrenceburg, Tenn. (250)	-----		
1060	282.8	KFJR—Portland, Oreg. (100)			
		KFXF—Denver, Colo. (250)			
		<b>KFUM—Colorado Spgs., Colo. (1,000)</b>			
		<b>WAIU—Columbus, Ohio (5,000)</b>	<b>30-35-30</b>		
		WDRC—New Haven, Conn. (500)			
		WEAO—Columbus, Ohio (750)	-----		
1070	280.2	KTAB—Oakland, Calif. (500)			
		WFIW—Hopkinsville, Ky. (500)			
		WFBG—Altoona, Pa. (100)			
		WGCP—Newark, N. J. (500)			
		WNJ—Newark, N. J. (500)			
		WTAL—Toledo, Ohio (100)	-----		
1080	277.6	<b>KOIL—Council Bluffs, Iowa (2,000)</b>			
		KTCL—Seattle, Wash. (500)			
		KWWG—Brownsville, Texas (500)			
		WDZ—Tuscola, Ill. (100)			
		<b>WHAM—Rochester, N. Y. (5,000)</b>	<b>10-30-30</b>	-----	
1090	275.1	KFSG—Los Angeles, Calif. (500)			
		WDWF—Cranston, R. I. (250)			
		<b>WORD—Batavia, Ill. (5,000)</b>			
		WTAS—Elgin, Ill. (500)			
		WWL—New Orleans, La. (100)			
		6JK—Tuincu, Cuba (100)			
		<b>CYB—Mexico City, Mexico (1,000)</b>	-----		
1100	272.6	KFAD—Phoenix, Ariz. (500)			
		KFJF—Oklahoma City, Okla. (750)			
		<b>KLDS—Independence, Mo. (1,500)</b>			
		KSMR—Santa Maria, Calif. (100)			
		WBAA—West Lafayette, Ind. (500)			
		WFBJ—Collegeville, Minn. (100)			
		WFDF—Flint, Mich. (100)			
		<b>WHAR—Atlantic City, N. J. (1,000)</b>	-----		

Miles	Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
				No. 1	No. 2	No. 3
	1100	272.6	<b>WPG—Atlantic City, N. J. (5,000)</b> WSKC—Bay City, Mich. (250) WRM—Urbana, Ill. (500)-----	24	24	24 = 0-30-0
	1110	270.1	KFLX—Galveston, Texas (100) KGU—Honolulu, T. H. (600) KOAC—Corvallis, Oreg. (500) KQV—Pittsburgh, Pa. (500) WGST—Atlanta, Ga. (500) WJAS—Pittsburgh, Pa. (500) WMAZ—Macon, Ga. (500) WSOE—Milwaukee, Wis. (250)-----			
	1120	267.5	KFIZ—Fond du Lac, Wis. (100) KFLV—Rockford, Ill. (100) KFWI—San Francisco, Calif. (500) WHAD—Milwaukee, Wis. (500) <b>KSBA—Shreveport, La. (1,000)</b> WBAO—Decatur, Ill. (100) WBKN—Brooklyn, N. Y. (100) WBMS—Union City, N. J. (100) WDAE—Tampa, Fla. (500) WIBI—Flushing, N. Y. (100) WWRL—Woodside, N. Y. (100) CFRC—Kingston, Ont. (500)-----			
353	1130	265.3	<b>KTSA—San Antonio, Texas (2,000)</b> WBES—Takoma Park, Md. (100) WCWS—Danbury, Conn. (100) WHK—Cleveland, Ohio (500) WICC—Sport Hill, Conn. (250) <b>WNOX—Knoxville, Tenn. (1,000)</b> <b>WOI—Ames, Iowa (2,500)</b> CNRV—Vancouver, B. C. (500) CYF—Oaxaca, Mexico (100)-----			40-24-24
	1140	263	KGEF—Los Angles, Calif. (500) WDAG—Amarillo, Texas (250) WEAM—N. Plainfield, N. J. (250) <b>WJAZ—Mt. Prospect, Ill. (5,000)</b> WJBI—Red Bank, N. J. (150) WJBO—New Orleans, La. (100) WMAL—Washington, D. C. (250)-----			

*Miles*

Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
			No. 1	No. 2	No. 3

1140	263	WMBI—Chicago, Ill. (500) WSEA—Virginia Beach, Va. (500) <del>59-59</del> 59 WTAR—Norfolk, Va. (500)-----			
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*205*

1150	260.7	<b>KGA—Spokane, Wash. (2,000)</b> WCAU—Philadelphia, Pa. (500) 47-48-49=? WDGY—Minneapolis, Minn. (500) WNBH—New Bedford, Mass. (250) WOOD—Fernwood, Mich. (500) <b>WRHM—Minneapolis, Minn. (1000)</b> 6BY—Cienfuegos, Cuba (200)-----			
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1160	258.5	KDYL—Salt Lake City, Utah (100) KFOX—Omaha, Nebr. (100) KFUL—Galveston, Texas (500) KOCH—Omaha, Nebr. (250) WBT—Charlotte, N. C. (500) 40-48-48=? WCMA—Culver, Ind. (250) WEBW—Beloit, Wis. (500) WFBL—Syracuse, N. Y. (750) WIL—St. Louis, Mo. (250) WNAI—Omaha, Nebr. (250) WSBF—St. Louis, Mo. (250)-----			
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1170	256.3	KRE—Berkeley, Calif. (100) <b>KTNT—Muscatine, Iowa (1,000)</b> 27½-20-20 WASH—Grand Rapids, Mich. (250) <b>WBBR—Rossville, N. Y. (1,000)</b> WCSO—Springfield, Ohio (500) WEBJ—New York, N. Y. (500) WLTH—Brooklyn, N. Y. (250)-----			
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1180	254.1	KFKU—Lawrence, Kans. (500) KGFY—Pierre, S. Dak. KMO—Tacoma, Wash. (250) WCAX—Burlington, Vt. (100) WABO—Rochester, N. Y. (250) WREN—Lawrence, Kans. (750) <del>25-30</del> <b>WRVA—Richmond, Va. (1,000)</b> <del>20-20-20</del> 25-30 WTAQ—Eau Claire, Wis. (500)-----			
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1190	252	KOCW—Chickasha, Okla. (250) KPLA—Los Angeles, Calif. (500) WKBF—Indianapolis, Ind. (250)-----			
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Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
			No. 1	No. 2	No. 3
1190	252	<b>WMBB—Chicago, Ill. (5,000)</b>	20	20	20
		WMBR—Tampa, Fla. (100)			
		<b>WOK—Chicago, Ill. (5,000)</b>	20	20	0 = 0-20-0
		WSAR—Portsmouth, R. I. (100)	-----	-----	-----
1200	249.9	KFQU—Holy City, Calif. (100)			
		KFRU—Columbia, Mo. (500)			
		KFYR—Bismarck, N. Dak. (250)			
		WBAX—Wilkes-Barre, Pa. (100)			
		WBRE—Wilkes-Barre, Pa. (100)			
		WCOA—Pensacola, Fla. (500)			
1210	247.8	KFBC—San Diego, Calif. (100)			
		KFEL—Denver, Colo. (250)			
		KFIO—Spokane, Wash. (100)			
		KFPY—Spokane, Wash. (250)			
		KFJB—Marshalltown, Iowa (100)			
		KFQA—St. Louis, Mo. (100)			
		WBAW—Nashville, Tenn. (100)			
		KOW—Denver, Colo. (250)			
		WBBL—Richmond, Va. (100)	20	20	20
		WCAT—Rapid City, S. Dak. (500)			
		<b>WIOD—Miami Beach, Fla. (1,000)</b>			
WMAY—St. Louis, Mo. (100)	-----	-----	-----		
1220	245.8	KFH—Wichita, Kans. (500)			
		KFIO—Spokane, Wash. (100)			
		KLS—Oakland, Calif. (250)			
		KZM—Oakland, Calif. (100)			
		WAAT—Jersey City, N. J. (500)			
		WDOD—Chattanooga, Tenn. (500)			
		WEVD—Woodhaven, N. Y. (500)			
		WFBE—Cincinnati, Ohio (250)			
		WGBB—Freeport, N. Y. (400)			
		WHDI—Minneapolis, Minn. (500)			
		WKRC—Cincinnati, Ohio (250)			
WLB—Minneapolis, Minn. (500)	-----	-----	-----		
1230	243.8	KFCB—Phoenix, Ariz. (125)			
		KGRS—Amarillo, Texas (150)			
		KSCJ—Sioux City, Iowa (500)			
		<b>KWUC—LeMars, Iowa (1,500)</b>	-----	-----	-----

Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
			No. 1	No. 2	No. 3
1230	243.8	WBRC—Birmingham, Ala. (250) WCAD—Canton, N. Y. (500) WMBC—Detroit, Mich. (100)-----			
1240	241.8	KFKB—Milford, Kans (1,500) KFON—Long Beach, Calif. (500) WEBC—Superior, Wis. (250) WEBR—Buffalo, N. Y. (200) WEDC—Chicago, Ill. (500) WGES—Chicago, Ill. (500) WSAZ—Huntington, W. Va. (100)-----			
1250	239.9	KEX—Portland, Oreg. (2,500) KPYR—Bismarck, N. Dak. (250) KWCR—Cedar Rapids, Iowa (250) WBBP—Petoskey, Mich. (100) WDWM—Asbury Park, N. J. (250) WIBA—Madison, Wis. (100) WJAM—Cedar Rapids, Iowa (250) WNAD—Norman, Okla. (500) WOAX—Trenton, N. J. (500)-----			
1260	238	WIBX—Utica, N. Y. (150) WLBI—East Wenona, Ill. (250) WRAW—Reading, Pa. (100) WRBC—Valparaiso, Ind. (250) WSBT—South Bend, Ind. (500)-----			
1270	236.1	KFDX—Shreveport, La. (250) KFMX—Northfield, Minn. (500) KFWM—Oakland, Calif. (500) KHMC—Harlingen, Texas (100) WBNY—New York, N. Y. (500) WCAL—Northfield, Minn. (500) WGBF—Evansville, Ind. (250) WHAP—New York, N. Y. (1,000) WMSG—New York, N. Y. (500) WTAD—Quincy, Ill. (250) WTAR—Norfolk, Va. (500)-----			
1280	234.2	KFUO—St. Louis, Mo. (1,000) KFVE—St. Louis, Mo. (1,000) KGAR—Tucson, Ariz. (100) WCAH—Columbus, Ohio (250)-----			

Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
			No. 1	No. 2	No. 3
1280	234.2	WDAH—El Paso, Texas (100) WMBS—Harrisburg, Pa. (250) -----			
1290	232.4	KFJY—Ft. Dodge, Iowa (100) KFMR—Sioux City, Iowa (100) KFPR—Los Angeles, Calif. (250) KUT—Austin, Texas (500) WBRL—Tilton, N. Hamp. (500) WHBQ—Memphis, Tenn. (100) WJKS—Gary, Ind. (500) WSBC—Chicago, Ill. (500) -----			
1300	230.6	KFEQ—St. Joseph, Mo. (1,000) WAFD—Detroit, Mich. (100) WCOC—Columbus, Miss. (100) WDBJ—Roanoke, Va. (250) WGBI—Scranton, Pa. (250) WQAN—Scranton, Pa. (250) WREO—Lansing, Mich. (1,000) -----			
1310	228.9	KELW—Burbank, Calif. (250) KGBU—Ketchikan, Alaska (500) WHBP—Johnstown, Pa. (500) WKBE—Webster, Mass. (100) WOWO—Ft. Wayne, Ind. (2,500) -----			
1320	227.1	KFUP—Denver, Colo. (100) KSO—Clarinda, Iowa (500) WARS—Brooklyn, N. Y. (500) WWAE—Chicago, Ill. (500) WBBC—Brooklyn, N. Y. (500) WCLO—Camp Lake, Wis. (100) WJAY—Cleveland, Ohio (500) WJBC—LaSalle, Ill. (100) WJBR—Omro, Wis. (100) WSDA—New York, N. Y. (250) -----			
1330	225.4	KFUR—Ogden, Utah (500) WAND—Minneapolis, Minn. (500) WDAD—Nashville, Tenn. (1,000) WFBM—Indianapolis, Ind. (250) WFBR—Baltimore, Md. (100) WMAC—Cazenovia, N. Y. (500) WSYR—Syracuse, N. Y. (500) -----			

Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
			No. 1	No. 2	No. 3
1340	223.7	KGFH—La Crescenta, Calif. (250)			
		KMIC—Inglewood, Calif. (250)			
		WABQ—Philadelphia, Pa. (500)			
		WCAM—Camden, N. J. (500)			
		WCRW—Chicago, Ill. (500)			
		WFKB—Chicago, Ill. (500)			
		WNRC—Greensboro, N. C. (500)			
		WPCC—Chicago, Ill. (500)			
		WSAJ—Grove City, Pa. (250)-----			
1350	222.1	KFWC—San Bernardino, Calif. (100)			
		KWKC—Kansas City, Mo. (100)			
		WCBA—Allentown, Pa. (100)			
		WHBD—Bellefontaine, Ohio (100)			
		WHBF—Rock Island, Ill. (100)			
		WSAN—Allentown, Pa. (100)-----			
1360	220.4	WKBH—La Crosse, Wis. (500)			
		WMBO—Auburn, N. Y. (100)-----			
1370	218.8	KGEW—Fort Morgan, Colo. (200)			
		WCGU—Coney Island, N. Y. (500)			
		WGWB—Milwaukee, Wis. (500)			
		WKBO—Jersey City, N. J. (500)			
		WKBQ—New York, N. Y. (500)-----			
1380	217.3	KFOR—Lincoln, Nebr. (100)			
		KFQW—Seattle, Wash. (100)			
		WKBS—Galesburg, Ill. (100)			
		WKBV—Brookville, Ind. (100)			
		WKBW—Buffalo, N. Y. (500)			
		WLBO—Galesburg, Ill. (100)			
		WRCO—Raleigh, N. C. (250)-----			
1390	215.7	KGER—Long Beach, Calif. (100)			
		KRLO—Los Angeles, Calif. (250)			
		WCLS—Joliet, Ill. (150)			
		WEHS—Evanston, Ill. (100)			
		WHFC—Chicago, Ill. (200)			
		WKBB—Joliet, Ill. (150)			
		WOKO—Peekskill, N. Y. (250)			
		WPEP—Waukegan, Ill. (250)			
		WQAA—Parkersburg, Pa. (500)-----			

Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
			No. 1	No. 2	No. 3
1400	214.2	KFWF—St. Louis, Mo. (250)			
		WCWK—Ft. Wayne, Ind. (250)			
		WJBU—Lewisburg, Pa. (100)			
		WLBG—Petersburg, Va. (100)			
1410	212.6	KGBZ—York, Nebr. (100)			
		KGDY—Shreveport, La. (250)			
		WJBL—Decatur, Ill. (250)			
		WRAX—Philadelphia, Pa. (250)			
		WSIX—Springfield, Tenn. (150)	-----		
1420	211.1	KPNP—Muscatine, Iowa (100)			
		WBMH—Detroit, Mich. (100)			
		WBRB—Brooklyn, N. Y. (100)			
		WCDA—Cliffside, N. J. (250)			
		WMES—Boston, Mass. (50)			
		WRSC—Chelsea, Mass. (100)			
1430	209.7	WRST—Bay Shore, N. Y. (250)	-----		
		KSOO—Sioux Falls, S. D. (250)			
		WCBS—Springfield, Ill. (250)			
		WOKT—Rochester, N. Y. (500)			
		WPRC—Harrisburg, Pa. (100)			
1440	208.2	WRCV—Norfolk, Va. (100)			
		WTFI—Toccoa, Georgia (250)	-----		
		KFVD—Venice, Calif. (250)			
		KGCU—Mandan, N. D. (100)			
		KGFJ—Los Angeles, Calif. (100)			
		WJBZ—Chicago Heights, Ill. (100)			
		WLBZ—Dover, Maine (250)			
		WNBA—Forest Park, Ill. (200)			
1450	206.8	WRAF—LaPorte, Ind. (100)			
		WRPI—Terre Haute, Ind. (100)	-----		
		KGDW—Humboldt, Nebr. (100)			
1460	205.4	KGGF—Picher, Okla. (100)	-----		
		KGEO—Grand Island, Nebr. (100)			
		KGEZ—Kalispell, Mont. (100)			
		WABF—Kingston, N. Y. (250)			
		WMBD—Peoria Heights, Ill. (250)			
		WRK—Hamilton, Ohio (100)	-----		

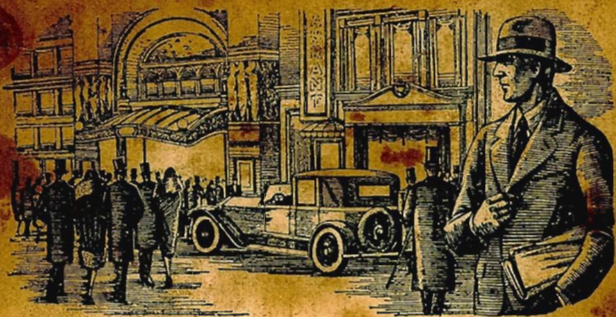


Freq. Kilo.	W. L. Mets.	Station Call, Location and Power	Dial Setting		
			No. 1	No. 2	No. 3
1470	204	KGFO—Portable (100) WBBZ—Chicago, Ill. (100) WHBL—Chicago, Ill. (100) WIBS—Elizabeth, N. J. (150) WIBW—Chicago, Ill. (100) WKEN—Kenmore, N. Y. (250) WLBX—Long Island City, N. Y. (250) WMBA—Newport, R. I. (100) WMBH—Joplin, Mo. (100) WMBQ—Brooklyn, N. Y. (100) WSAX—Chicago, Ill. (100)-----			
1480	202.6	KGBS—Seattle, Wash. (100)-----			
1490	201.2	KGEY—Denver, Colo. (250) WATT—Boston, Mass. (100) WCBR—Providence, R. I. (100) WGMU—Portable (100) WHBM—Portable (100) WRMU—New York, N. Y. (100) WIBJ—Chicago, Ill. (100) WIBM—Chicago, Ill. (100) WKBG—Chicago, Ill. (100)-----			
1500	199.8	WRAH—Providence, R. I. (250)-----			

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**CHRISTMAS PRESENT**

It greatly increases radio enjoyment. Why not  
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Always outside of things—that's where I was just twelve short months ago. I just didn't have the cash, that was all. What a difference today! I drive my own car, have a good bank account, enjoy all the amusements I please.

## I Couldn't Get the Good Things of Life Then I Quit My Job and "Found" Myself

How does a man go about making more money? I asked myself this question a hundred times!

I know the answer now—you buy and know the way good money is made, and I'm making it. I own one of the finest Radio stores you ever saw.

But—it's just a year ago that I was a poorly-paid clerk, struggling along on a starvation salary, until by accident I saw just what was the matter with me. Here's the story of how it happened:

One of the big moments of my life had come. I had just popped the fatal question, and Louise had said "Yes!"

Louise wanted to go in and tell her father about it right away, so we did. He asked Louise to leave us alone.

"So you and Louise have decided to get married," he said to me when we were alone. "Well, Bill, just listen to me. I've watched you often here at the house with Louise and I think you're a pretty good, upstanding young fellow. But let me ask you just one question—how much money do you make?"

"Twenty-eight a week," I told him.

He didn't say a word—just wrote it down on a piece of paper.

"Have you any prospects of a better job or a good raise sometime soon?" he asked.

"No, sir, I can't honestly say that I have," I admitted. "I'm looking for something better all the time, though."

"Looking, eh? How do you go about it?"

Well, that question stopped me.

When he saw my confusion he grinned. "I thought so," he said, then he held up some figures he'd been scribbling at.

"I've just been figuring out your family budget, Bill, for a salary of twenty-eight a week. I figure you can afford a very small unfurnished apartment, with inexpensive furniture, gas, electricity, gas and water bills, buy just about one modest outfit of clothes for both of you each year, and save three dollars a year for sickness, insurance and emergencies. You can't eat. And you'll have to go without amusements."

I began to turn red as fire.

"That's enough, Mr. Sullivan," I said. "I can see things pretty clearly now, things I was finding myself over." And home I went, no more in a whirl.

I began to thumb the pages of a magazine which was lying on the table beside me. Suddenly an advertisement seemed almost to leap out at my eyes, an advertisement telling of big op-

portunities for trained men to succeed in the great new Radio field. I sent the coupon in, and in a few days received a handsome 64-page book, printed in two colors, telling all about the opportunities in the Radio field and how a man can prepare quickly and easily at home to take advantage of these opportunities.

What's happened in the twelve months since that day seems almost like a dream to me now.

Now I'm making real money. Louise and I have been married six months. I'll bet that today I make more money than the old boy himself.

Here's a real tip. You may not be as bad off as I was. But—are you satisfied? Are you making enough money, at work that you like? Would you sign a contract to stay where you are now for the next ten years, making the same money?

This new Radio game is a live-wire field of golden rewards. The work in any of the 20 different lines of Radio, is fascinating, absorbing, well paid. The National Radio Institute—the oldest and largest Radio homestudy school in the world—will train you inexpensively in your own home to know Radio from A to Z.

Take another tip—No matter what your plans are, no matter how much or how little you know about Radio—clip the coupon below and look their free book over. You will place yourself under no obligation—the book is free, and is gladly sent to anyone who wants to know about Radio. Just address J. E. Smith, President, National Radio Institute, Dept. T-W, Washington, D. C.

J. E. SMITH, President, National Radio Institute, Dept. T-W, Washington, D. C.

Dear Mr. Smith: Please send me your 64-page free book, printed in two colors, giving all information about the opportunities in Radio and how I can learn quickly and easily at home to take advantage of them. I understand this request places me under no obligation, and that no salesman will call on me.

Name \_\_\_\_\_  
Address \_\_\_\_\_  
Town \_\_\_\_\_