

RADIO INDEX

"THE TUNING BOOK"

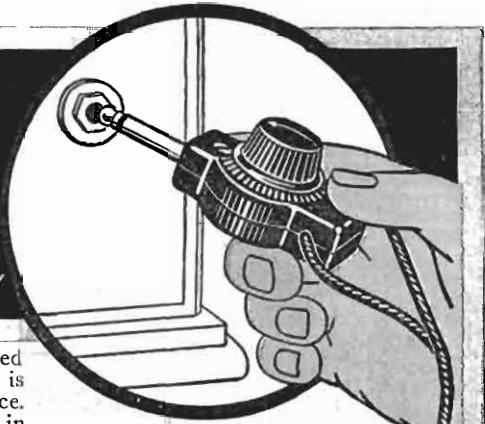


25c

RADEX shows the wave length to which set is tuned as dials are turned, gives exact location of dials for any station in America and identifies programs received without announcement
For any dial and any set

Brings Old Sets Up To Date

The principal advancement claimed for this year's best radio sets is improvement in tone performance. This improvement can be made in your present set by adding the Centralab Modu-Plug. No tools are needed—simply replace your present loud speaker plug with this new invention.



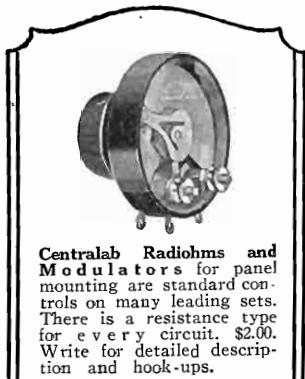
Centralab Modu^{CR} plug

gives you this new advantage—easy, sure control of tone volume from a whisper right up to the maximum output of your set. Tune in your station on the set, then modulate the tone volume with the Modu-Plug to the exact point of greatest distinctness and most pleasing reception, by simply turning the small knob on the plug. If you've been exasperated by losing a good station when you were working the dials to get the right tone volume—then use a Modu-Plug. Makes for better, sweeter tuning by transferring the final touch to the Modu-Plug between the speaker and the set. Improves tone by helping to match the speaker impedance to the output impedance of the set. Reduces interfering noises.

The No. 1 Standard Type Modu-Plug illustrated replaces the present loud speaker plug on all sets equipped with jacks.

The No. 2 Cord Type Modu-Plug is for sets not equipped with jacks and has a duplex phone cord in place of the jack tip. It provides an ideal remote control for the set, and is necessary where two or more speakers are used to equalize their volume. Either Standard Type or Cord Type Modu-Plug sells at \$2.50.

At your dealer's or mailed direct on receipt of price. All Centralab products are guaranteed to satisfy or money will be refunded.



Centralab Radiohoms and Modulators for panel mounting are standard controls on many leading sets. There is a resistance type for every circuit. \$2.00. Write for detailed description and hook-ups.

Central Radio Laboratories
8 Keefe Avenue Milwaukee, Wis.

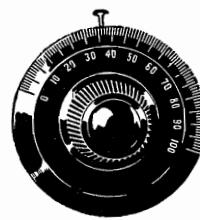
Centralab

CRL



RADIO IN DEX

AUTUMN EDITION



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VOL. 3, No. 1

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One Dollar the Year

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THE ART OF TUNING

Some People Merely "Fish"

By L. C. MARTIN

Every station broadcasting upon a given wave or frequency should come in upon your set at exactly the same point upon your dials. No matter what its distance or what its power, if it is upon its right wave it should be received with the same dial setting as every other station upon that wave. To get the most out of your set, therefore, you must learn to tune by wave lengths or frequencies. There is a direct relation between the ascending sequence of dial numbers and the ascending sequence of wave lengths (or the descending sequence of frequencies). This relation varies for different sets but it is always the same for each set no matter what its location. The RADEX Tuning Charts are so devised that merely filling in your dial readings for those stations you hear shows the relation for those stations you have never heard.

If the RADEX Charts are properly used they will show you the wave length you are tuning to whenever you turn your dials; they will give you the proper dial settings for every station in America; and they will help you identify the stations you receive without hearing the announcement. These charts are in effect wave length indicators. In technical terms, they calibrate your set. They are therefore absolutely essential to the intelligent and proper operation of a radio receiving set.

When any station is first received, mark your dial readings in the "Index by Call Letters" for ready reference later. Second, enter these dial numbers

in the proper squares in the "Index by Wave Lengths." After you have thus filled in a few readings in the latter index the proper dial numbers for any other station whose wave length is between those you have heard, will be clearly shown. Keep filling in the squares in the "Index by Wave Lengths" and soon you will be able to see at a glance exactly what your dial readings should be for any station within range of your set.

Similarly if you desire to know what station you are hearing without awaiting the announcement, compare the dial settings with those you have already entered in the "Index by Wave Lengths" and you will be surprised to see how readily and accurately you can decide the name of the station you are receiving.

In RADEX the "Index by Wave Lengths" is the important one and the other two are used as a cross index for quick reference to the former. If you want to refer to a certain station in the "Index by Wave Lengths" turn first either to the "Index by Call Letters" or the "Index by Locations" and get the wave length for the desired station after which you can locate it instantly in the "Index by Wave Lengths."

Without RADEX one might as well try to tune in his stations blindfolded. With it one always knows exactly what he is doing. Properly used it will add immensely to the pleasure and value of a radio set.

What Do You Mean—Frequency?

Radio in A. B. C.

By CHARLES E. PHELPS

So many readers of RADEX are novices in the art of Radio that this article is written solely for them. The person skilled in the technique of Radio will find nothing new in this article. Indeed he will probably find much to criticize for we shall sacrifice exactitude to simplicity.

A modern broadcasting station is a very intricate institution. Let it suffice to say that the electric waves which are projected into space by the aerial are set into motion by vibrating electric currents which are made to surge back and forth by the radio transmitter. To fully understand this let us seek for a simple illustration. Everyone knows that when a pebble is dropped into water a wave-ring is sent outward. Unfortunately for our illustration the pebble sends out a succession of rings, one after the other. Let us try to imagine a peculiar pebble which sends out only one ring and that we must drop another pebble to send out a second ring. If we can imagine this it will be plain that the distance between one ring-wave and the next will depend upon the rate at which we drop the pebbles—that is, the frequency. As we increase the frequency, the distance from one wave to the next—the wave-length—decreases and as we decrease the frequency the wave length increases. If the wave-ring travels through water at the rate of say ten feet per second and we drop a pebble every second, the wave-length will be ten feet. If we increase the frequency to two per second, the wave length

decreases to five feet. On the other hand if we reduce the frequency of our pebbles, we increase the wave length. That much is clear, is it not?

Now the broadcasting station sends out wave-rings in the air just as our pebble sends them in the water. The United States Department of Commerce assigns to each station a certain frequency which is measured in kilocycles (or thousands of cycles) a cycle being one complete vibration or complete wave. The wave lengths are measured in meters. The velocity of radio waves in space has been determined to be 299,820 (or roughly 300,000) kilometers per second. Therefore if we divide 299,820 by the frequency in kilocycles we secure the wave length in meters. If we divide 299,820 by the wave length we get the frequency. If we want to know the frequency of a station which has a wave length of say 299.8 meters, we find by dividing as above that the frequency is 1,000 kilocycles.

It has been found by many experiments that stations cannot broadcast within less than ten kilocycles of each other without interference. Consequently the Government has divided the stations into classes of kilocycles by tens. It is unfortunate that we have learned to think of radio in terms of wave-lengths as these are only incidental and of no consequence. We should think in terms of frequency and learn to refer to stations as having a fre-

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RADIOTORIALS

By THE EDITOR

With this issue of RADEX we enter the ranks of the regular radio magazines. For two years RADEX has been published merely as a tuning book and as such has become famous wherever radio is known. In the future it will contain, in addition to its unique tuning charts, a broadcasting map and table of airline distances, and stories and articles with particular reference to tuning and better reception. The magazine has been increased both in number of pages and in size and a three color cover will add greatly to its attractiveness. These additional features are made possible by opening our columns to advertisers of repute. Our readers can aid us greatly by mentioning RADEX when replying to advertisements.

RADEX owes its growth, like a certain baby's food, "to its loving friends" who have been good enough to broadcast its virtues among their radio acquaintances. We hope its new readers will "go and do likewise."

Ether Selfishness

There is a certain species addicted to the automobile known euphoniously as "road hog." He goes his merry way down the asphalt exactly in the middle leaving those who would pass him to take their choice of either ditch. His brother has now appeared in the radio

field. Due to the unfortunate failure of Congress to pass a radio act, broadcasting has temporarily been left to the honor of the station managers. To their everlasting credit be it said that the great majority are of the type of citizen who does not need a policeman to be an American gentleman. But a few have chosen the "middle of the road" in keeping with the habits of their class. They have ignored the paths set up by the government, the ten-kilocycle roadways; and they purpose to root their way down the line between them with utter indifference to the fact that they are "ditching" their fellows on the right and left.

RADEX does not intend to aid and abet this gentry. Just as it has no use for the man who ignores the paths in a public park but plows instead his selfish way through lawn and flower beds, so it abhors that broadcaster who leaves the ten-kilocycle paths to set up one of his own between them. Consequently in our "Index by Wave Lengths" these stations will be found, not in a class all their own with a bastard frequency, but in the nearest regular class. Thus if one of these ether hogs has set up a class for himself of 862 kilocycles, RADEX will not honor him by recognizing a special wave-length but will list him instead in 860 kilocycles where he belongs. This causes a discrepancy between the wave lengths shown for certain stations but we prefer this to playing into the hands of those whose actions, if generally followed, would destroy radio.

When He Speaks Millions Listen

By J. PAUL ATWOOD

MORE people have heard the voice of Graham McNamee than that of any other man in history.

When the President of the United States addresses the radio audience—when world series baseball games or Harvard-Yale gridiron struggles are being broadcast,—and when national political conventions are taking the air, it is Graham McNamee who presides at the microphone.

If the event is political, McNamee speaks as an authority on politics. If the occasion is athletic, he is prepared to give the fans the low down on sport. And if the entertainment is musical, McNamee is in his own chosen field.

In any case, he always makes a good job of it. And that is why a short time ago he was voted the world's "Best Radio Announcer." He won the title and a huge loving-cup, which is insured for \$5,000, in competition with practically every other announcer in the country.

McNamee is chief announcer at WEAF, New York City, the broadcasting station of The American Telephone and Telegraph Company, one of the most powerful stations in the country, whose programs are often picked up on the Pacific Coast. But to make sure that the programs can be



heard on the Canadian border, and down on the shores of the Rio Grande, important events are broadcast by thirty or more stations, and McNamee and his group of artists are heard all over the country at the same time.

Luck—or Fate?

And even though he seems so perfectly fitted for the work he is doing, it was just luck and the performance of an unpleasant obligation that brought McNamee to radio announcing. The day before he was appointed a substitute announcer by WEAF, he had no more thought of speaking into a microphone than of attempting to swim the English Channel.

How It Happened

"I happened to be on jury duty down town," he explained. "I regarded it as a necessary nuisance and I thought that I would at least enjoy the two hour lunch recess. So I dropped

(Continued on Page 39)

ON A LOWER WAVE

Trouble Note

The cause of the squealing set is usually found in the nut that turns the dial.

* * *

Missed Something

Irate Apartment Dweller: "Say, your radio kept me awake until one o'clock this morning."

His Neighbor: "You should have stayed awake about half an hour longer. I got some great stuff from Chicago then."—*Life*.

* * *

A Radio Fiend

It came in strong and clear, pure as a bell,

Without a trace of static—an allegro From Hadyn that lifted the corners of the mouth,

Brightened the eye, and set the heart to dancing.

You shut your eyes and almost saw the bows

Darting athwart the russet violins, And the leader weaving his will on the orchestra

As if he swayed one, splendid instrument.

He listened a moment with bright, approving face.

"Fine! Fine!" said he, then turning to his dials,

"And now let's see if we can get Seattle!"—*Cleveland Plain Dealer*.

* * *

Oft in the Stilly Night

"And now," said the announcer of WTAM during a recent program, "The orchestra will play two numbers—"In the Middle of the Night" and "Nothing Else to Do."

Perpetual Motion

There was a peculiar slap-slap-slapping sound mixed in with part of WHK's broadcasting one night. And it was so noticeable during a humorous talk that Junior, aged a little more than four, inquired: "Is that what winds the man up?"

* * *

Answers to "Anxious"

If a radio fan's wife is getting plump what can he do about it?

Ans. Condenser.

If she is a brunette and he prefers a blond?

Ans. Transformer.

If she is inclined to be wild?

Ans. Rectifier.

If she elopes with the repair man?

Ans. Arrester.

If she gets grouchy?

Ans. Tickler.

If she wants to meet him for lunch?

Ans. Meter.

If she insists upon his going to bed?

Ans. Resistor.

If she still insists?

Ans. Eliminator.

* * *

Personal Service

Little Jimmy's mother took her "daily dozen" with the aid of the physical director of WJX. One morning she turned on the radio set a few minutes before the time and went on about her household duties. Suddenly the music started and the director began his exercises. Jimmy rushed to the loud speaker and called into it, "Wait a minute; mamma isn't here yet."

INDEX BY WAVE LENGTHS AND DIAL NUMBERS

202.6 meters 1480 kilocycles

KFXB 500 Big Bear Lake, Cal.
 KGBY 10 Shelby, Mont.
 WEHS 10 Evanston, Ill.
 WIBS 10 Elizabeth, N. J.

203.9 meters 1470 kilocycles

WABB 10 Harrisburg, Pa.

205.4 meters 1460 kilocycles

KFVD 50 San Pedro, Cal.
 KFXD 10 Logan, Utah
 KFYX 50 Flagstaff, Ariz.
 KFYF 10 Oxnard, Cal.
 WFRL 100 Brooklyn, N. Y.
 WPDQ 50 Buffalo, N. Y.

206.8 meters 1450 kilocycles

KGTT 50 San Francisco, Cal.
 WABW 50 Wooster, O.
 WJBA 50 Joliet, Ill.

208.2 meters 1440 kilocycles

KNRC 500 Los Angeles, Cal.

209.7 meters 1430 kilocycles

KFYO 10 Texarkana, Tex.
 KGDN 50 Concordia, Kan.
 KSMR 100 Santa Maria, Cal.
 WCBR 100 Providence, R. I.
 WCWS 100 Providence, R. I.
 WIBH 30 New Bedford, Mass.
 WKBA 200 Chicago, Ill.

211.1 meters 1420 kilocycles

KFWC 5 San Bernardino, Cal.
 KFWO 250 Avalon, Cal.
 WJBU 100 Lewisburg, Pa.

212.6 meters 1410 kilocycles

KFWV 50 Portland, Ore.
 WMAL 100 Washington, D. C.

214.2 meters 1400 kilocycles

KFWF 250 St. Louis, Mo.
 KFXR 15 Oklahoma City
 WCLS 150 Joliet, Ill.

215.7 meters 1390 kilocycles

KFBC 50 San Diego, Cal.
 KFQW 50 North Bend, Wash.
 KFXJ 15 Denver, Colo.
 WBBZ 50 Chicago, Ill.
 WHBL 50 Chicago, Ill.
 WHBM 20 Chicago, Ill.
 WHBW 100 Philadelphia, Pa.
 WIBJ 50 Chicago, Ill.
 WIBM 10 Chicago, Ill.
 WKBG 100 Chicago, Ill.

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Bertram O. Heller
 Albert C. Dunning
 Robert E. Hughes
 Lieut. Thos. F. Hunter

--	--	--

Harrisburg Radio Co.

--	--	--

McWhinnie Electric Co.
 Service Radio Co.
 Mary M. Costigan
 Carl's Radio Den
 Flatbush Radio Laboratories
 Hiram L. Turner

--	--	--

Glad Tidings Tabernacle
 College of Wooster
 D. H. Lentz, Jr.

--	--	--

Clarence B. Juneau

--	--	--

Buchanan-Vaughan Co.
 Alva E. Smith
 Santa Maria Valley R. R. Co.
 Chas H. Messer
 Chas. W. Selen
 Elite Radio Stores
 Arrow Battery Co.

--	--	--

L. E. Wall
 Lawrence Mott
 Bucknell University

--	--	--

Wilbur Jerman, Inc.
 M. A. Leese Optical Co.

--	--	--

St. Louis Truth Center
 Classen Film Finishing Co.
 Harold M. Couch

--	--	--

W. K. Azbill
 Carl F. Knierim
 R. G. Howell
 C. L. Carrell
 James H. Slusser
 C. L. Carrell
 D. R. Kienzle
 C. L. Carrell
 Billy Maine
 C. L. Carrell

INDEX BY WAVE LENGTHS AND DIAL NUMBERS

WPRC	100	Harrisburg, Pa.	Wilson Printing & Radio Co.
WRST	250	Bay Shore, N. Y.	Radiotel Mfg. Co.
217.3 meters	1380 kilocycles		
KFAF	50	San Jose, Cal.	Alfred E. Fowler
WFKB	500	Chicago, Ill.	Francis K. Bridgman, Inc.
WOK	5000	Chicago, Ill.	Neutrowound Radio Mfg. Co.
218.8 meters	1370 kilocycles		
KFJC	10	Junction City, Kan.	Episcopal Church
KFRW	50	Olympia, Wash.	Western Broadcasting Co.
WHBU	10	Anderson, Ind.	Riviera Theatre
WIBI	50	Flushing, N. Y.	Frederick B. Zittell, Jr.
WJBI	250	Red Bank, N. J.	Robert S. Johnson
WSVS	50	Buffalo, N. Y.	Seneca Vocational School
220.4 meters	1360 kilocycles		
KFUU	50	Oakland, Cal.	Colburn & Mathewson
KJBS	5	San Francisco, Cal.	Julius Brunton & Sons Co.
WIBW	100	Logansport, Ind.	Dr. L. L. Dill
WKBI	50	Chicago, Ill.	Fred L. Schoenwolf
WQAA	500	Parkesburg, Pa.	Horace A. Beale, Jr.
222.1 meters	1350 kilocycles		
WBWB	50	Norfolk, Va.	Ruffner Junior High School
WBES	100	Takoma Park, Md.	Bliss Electrical School
WCOA	500	Pensacola, Fla.	City of Pensacola
WHBD	20	Bellefontaine, O.	Chamber of Commerce
WHBF	100	Rock Island, Ill.	Beardsley Specialty Co.
WIBG	50	Elkins Park, Pa.	St. Paul's Prot. Epis. Church
WIBU	20	Poynette, Wis.	The Electric Farm
223.7 meters	1340 kilocycles		
KFBL	100	Everett, Wash.	Leese Bros.
KFQP	10	Iowa City, Ia.	George S. Carson, Jr.
KFUR	100	Ogden, Utah	Peery Building Co.
KFVS	50	Cape Girardeau, Mo.	Hirsch Battery & Radio Co.
WKAV	50	Laconia, N. H.	Laconia Radio Club
WNRC	10	Greensboro, N. C.	Wayne M. Nelson
WRAF	100	La Porte, Ind.	The Radio Club, Inc.
225.4 meters	1330 kilocycles		
KFGQ	10	Boone, Iowa	Boone Biblical College
KFIU	10	Juneau, Alaska	Alaska Electric Light & Power Co.
KFKZ	10	Kirksville, Mo.	Chamber of Commerce
KFOB	50	Burlingame, Cal.	KFOB, Inc.
KFOR	100	David City, Neb.	David City Tire & Electric Co.
KFQZ	50	Hollywood, Cal.	Taft Products Co.
KFWI	500	S. San Francisco	Radio Entertainments, Inc.
WAGM	50	Royal Oak, Mich.	Robert L. Miller
WBBM	1500	Chicago, Ill.	Atlas Investment Co.
WDAD	150	Nashville, Tenn.	Dad's Auto Accessories, Inc.
WEBL	100	U. S. (Portable)	Radio Corporation of America
WEBQ	10	Harrisburg, Ill.	Tate Radio Co.
WFBE	10	Seymour, Ind.	Van de Walle Music & Radio Co.
WIBO	1000	Chicago, Ill.	Nelson Brothers
WKBC*	50	Birmingham, Ala.	H. L. Ansley
227.1 meters	1320 kilocycles		
KFQD	100	Anchorage, Alaska	Chavin Supply Co.

INDEX BY WAVE LENGTHS AND DIAL NUMBERS

KFVN	50	Fairmont, Minn.
KGBS	10000	Seattle, Wash.
WDBK	100	Cleveland, O.
WJBR	50	Omro, Wis.
WMRJ	5	Jamaica, N. Y.
WOWO	500	Fort Wayne, Ind.

Carl F. Bagley
A. C. Dailey
Stanley J. Broz
Gensch & Stearns
Peter J. Prinz
Main Auto Supply Co.

228.9 meters 1310 kilocycles

KFLV	200	Rockford, Ill.
KGBU	500	Ketchikan, Alaska
KMMJ	1000	Clay Center, Neb.
KPPC	50	Pasadena, Cal.
WAIT	10	Taunton, Mass.
WBBL	100	Richmond, Va.
WCBM	50	Baltimore, Md.
WDBJ	50	Roanoke, Va.
WFCI*	100	Pawtucket, R. I.
WGBR	10	Marshfield, Wis.
WSAJ	250	Grove City, Pa.
WSAN	100	Allentown, Pa.
WSAU	10	Chesham, N. H.

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Swedish Evang. Mission Church
Roy R. Thornton
M. M. Johnson Co.
Pasadena Presbyterian Church
A. H. Waite & Co.
Grace Covenant Presby. Church
Hotel Chateau
Richardson-Wayland Elecl. Corp.
Frank Crook, Inc.
George S. Ives
Grove City College
Allentown Call
Camp Marienfeld

230.6 meters 1300 kilocycles

KDLR	5	Devils Lake, N. D.
KFDX	100	Shreveport, La.
KFDZ	10	Minneapolis, Minn.
KFOT	50	Wichita, Kan.
KFPR	500	Los Angeles, Cal.
KFQU	100	Holy City, Cal.
KGCL	10	Seattle, Wash.
KUT	500	Austin, Tex.
WBRE	100	Wilkes-Barre, Pa.
WCLO	50	Camp Lake, Wis.
WHBG	20	Harrisburg, Pa.
WIBZ	10	Montgomery, Ala.
WTAX	50	Streator, Ill.

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Radio Electric Co.
First Baptist Church
Harry O. Iverson
College Hill Radio Club
Los Angeles County Forestry Dept.
W. E. Riker
Louis Wasmer
University of Texas
Baltimore Radio Exchange
C. E. Whitmore
John S. Skane
A. D. Trum
Williams Hardware Co.

232.4 meters 1290 kilocycles

KFEY	10	Kellogg, Idaho
KFON	500	Long Beach, Cal.
WDBZ	10	Kingston, N. Y.
WHBQ	50	Memphis, Tenn.
WJBK	10	Ypsilanti, Mich.
WOKO	50	Peekskill, N. Y.

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Bunker Hill & Sullivan Mining Co.
Nichols & Warinner, Inc.
Kingston Radio Club
St. John's M. E. Church
Ernest F. Goodwin
Harold E. Smith

234.2 meters 1280 kilocycles

KFUP	50	Denver, Colo.
KGCG	100	Newark, Ark.
KMJ	50	Fresno, Cal.
WFDF	100	Flint, Mich.
WGBX	500	Orono, Me.
WHBJ	250	Fort Wayne, Ind.
WIBX	150	Utica, N. Y.
WJBC	100	La Salle, Ill.
WKBD*	10	Jersey City, N. J.
WQAC	100	Amarillo, Tex.
WRAH*	150	Providence, R. I.
2LR*	50	Habana, Cuba

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Fitzsimons General Hospital
Moore Motor Co.
Fresno Bee
Frank D. Fallain
University of Maine
Chester W. Keen
WIBX, Inc.
Hummer Furniture Co.
Frank V. Bremer
Gish Radio Service
Stanley N. Read
Jose Lara

INDEX BY WAVE LENGTHS AND DIAL NUMBERS

236.1 meters 1270 kilocycles

KFLU	10	San Benito, Tex.
KFOO	250	Salt Lake City, Utah
KFVG	15	Independence, Kan.
KWKC	100	Kansas City, Mo.
WBQO	500	Richmond Hill, N. Y.
WCAM	250	Camden, N. J.
WFBJ	100	Collegeville, Minn.
WGFB	500	Evansville, Ind.
WGMU	100	Richmond Hill, N. Y.
WIBA	100	Madison, Wis.
WRMU	100	Richmond Hill, N. Y.
WTAD	50	Carthage, Ill.

San Benito Radio Club
Latter Day Saints University
First M. E. Church
Wilson Duncan Studios
A. H. Grebe & Co.
City of Camden
St. John's University
Finke Furniture Co.
A. H. Grebe & Co.
Capital Times Studio
A. H. Grebe & Co.
Robert E. Compton

237.9 meters 1260 kilocycles

KFBS	15	Trinidad, Colo.
KFCB	125	Phoenix, Ariz.
KFWU	100	Pineville, La.
KFYJ	10	Houston, Tex.
KMTR	500	Hollywood, Cal.
WBBP	200	Petoskey, Mich.
WHBN	10	St. Petersburg, Fla.
WHT	3500	Chicago, Ill.
WJBT	500	Chicago, Ill.
WRAW	10	Reading, Pa.

School District No. 1
Nielsen Radio Supply Co.
Louisiana College
Houston Chronicle
Echophone Mfg. Co.
Petoskey High School
First Avenue Methodist Church
Radiophone Broadcasting Corpn.
John S. Boyd
Avenue Radio & Electric Shop

239.9 meters 1250 kilocycles

KFHL	10	Oskaloosa, Iowa
KFLX	10	Galveston, Tex.
KFUM	100	Colorado Springs, Colo.
KFVE	5000	St. Louis, Mo.
KFVI	10	Houston, Tex.
KGCI	15	San Antonio, Tex.
KZM	100	Oakland, Cal.
WABI	100	Bangor, Me.
WCAT	50	Rapid City, S. D.
WDBO	500	Winter Park, Fla.
WGBI	100	Scranton, Pa.
WOAX	500	Trenton, N. J.
WSMH	20	Owosso, Mich.

Penn College
George R. Clough
W. D. Corley
Benson Broadcasting Corpn.
56th Cavalry, Hdqrs. Troop
International Radio Co.
Western Radio Institute
First Methodist Church
State School of Mines
Rollins College
Scranton Broadcasters, Inc.
Franklyn J. Wolff
Shattuck Music House

241.8 meters 1240 kilocycles

KFFP	50	Moberly, Mo.
KFPM	10	Greenville, Tex.
KFXH	50	El Paso, Tex.
KSO	500	Clarinda, Iowa
WABY	50	Philadelphia, Pa.
WBAW	100	Nashville, Tenn.
WCBH	50	Oxford, Miss.
WCBS*	250	Providence, R. I.
WEBC	100	Superior, Wis.
WOOD	500	Grand Rapids, Mich.

First Baptist Church
New Furniture Co.
Bledsoe Radio Co.
A. A. Berry Seed Co.
John Magaldi, Jr.
Braid Electric Co.
University of Mississippi
Dewing and Messter
Superior Telegram
Grand Rapids Radio Co.

243.8 meters 1230 kilocycles

KFVR	50	Denver, Colo.
KGAR	100	Tucson, Ariz.
KUOM	500	Missoula, Mont.
WAMD	1000	Minneapolis, Minn.
WATT	100	Boston, Mass.

Eugene Rossi
Tucson Citizen
University of Montana
Radisson Radio Corporation
Edison Electric Illuminating Co.

INDEX BY WAVE LENGTHS AND DIAL NUMBERS

WEBR	100	Buffalo, N. Y.	H. H. Howell
WGBB	100	Freeport, N. Y.	Harry H. Carman
WKBF*	100	Indianapolis, Ind.	Noble B. Watson
WNAX	100	Yankton, S. D.	Dakota Radio Apparatus Co.
WRAM	100	Galesburg, Ill.	Lombard College
WSAZ	50	Pomeroy, O.	Chase Electrical Shop
245.8 meters 1220 kilocycles			
KDYL	50	Salt Lake City, Utah	Newhouse Hotel
KFJI	10	Astoria, Ore.	E. E. Marsh
KFYJ	50	Fort Dodge, Ia.	Tunwall Radio Co.
KFSD	1000	San Diego, Cal.	Airfan Radio Corporation
WABX	500	Mt. Clemens, Mich.	Henry B. Joy
WBAL	5000	Baltimore, Md.	Consolidated Gas, Light & Power Co.
WIBR	50	Steubenville, O.	Tri-State Radio Co.
WQAE	50	Springfield, Vt.	Moore Radio News Station
WRR	500	Dallas, Tex.	City of Dallas
WSOE	500	Milwaukee, Wis.	School of Engineering
247.8 meters 1210 kilocycles			
CHCO	5	Huntsville, Ont.	A. Staples
CJCF	25	Kitchener, Ont.	O. Rumpel
CKPC	7	Preston, Ont.	Wallace Russ
KFBK	100	Sacramento, Cal.	Sacramento Bee
KFEC	50	Portland, Ore.	Meier & Frank Co.
KFIF	100	Portland, Ore.	Benson Polytechnic Institute
KFJB	10	Marshalltown, Ia.	Marshall Electric Co.
KFOX	100	Omaha, Neb.	Technical High School
KFRB	250	Beeville, Tex.	Hall Brothers
KFYR	10	Bismarck, N. D.	Hoskins-Meyer, Inc.
KWG	50	Stockton, Cal.	Portable Wireless Telephone Co.
WAPI	1000	Auburn, Ala.	Alabama Polytechnic Institute
WBRC	50	Birmingham, Ala.	Bell Radio Corporation
WCSO	100	Springfield, O.	Wittenberg College
WGAL	10	Lancaster, Pa.	Electric Supply & Construction Co.
WIOD	1000	Miami Beach, Fla.	Carl G. Fisher Co.
WMAY	100	St. Louis, Mo.	Kingshighway Presbyterian Church
WNBH	100	New Bedford, Mass.	New Bedford Hotel
249.9 meters 1200 kilocycles			
KFVY	10	Albuquerque, N. M.	Radio Supply Co.
KFXF	500	Colorado Springs, Colo.	Pikes Peak Broadcasting Co.
KLS	250	Oakland, Cal.	Warner Bros. Radio Supplies Co.
KMO	100	Tacoma, Wash.	Love Electric Co.
WBBC	100	Brooklyn, N. Y.	Peter J. Testan
WFBC	50	Knoxville, Tenn.	First Baptist Church
WGES	500	Chicago, Ill.	Guyons Paradise Ballroom
WHBA	10	Oil City, Pa.	Shaffer Music House
WHBY	50	West De Pere, Wis.	St. Norbert's College
WIAD	100	Philadelphia, Pa.	Howard R. Miller
WKBH	500	La Crosse, Wis.	Callaway Music Co.
WLAL	100	Tulsa, Okla.	First Christian Church
WMBB	500	Chicago, Ill.	American Bond & Mortgage Co.
WNAT	100	Philadelphia, Pa.	Lenning Bros. Co.
WQAN	100	Scranton, Pa.	Scranton Times
8BY	100	Santiago, Cuba	Alberto Ravelo
251.9 meters 1190 kilocycles			
KFHA	50	Gunnison, Colo.	Western State College of Colo.
KFOY	50	St. Paul, Minn.	Beacon Radio Service

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KFPL	15	Dublin, Tex.
KFWB	500	Hollywood, Cal.
KOCW	200	Chickasha, Okla.
KWUC	50	Le Mars, Iowa
WBBS	50	New Orleans, La.
WCAX	100	Burlington, Vt.
WFBL	100	Syracuse, N. Y.
WGCP	500	Newark, N. J.
WNJ	150	Newark, N. J.
WRCO	100	Raleigh, N. C.
WRHM	50	Minneapolis, Minn.
WSRO	100	Hamilton, O.
WTAL	10	Toledo, O.

C. C. Baxter
Warner Bros. Pictures, Inc.
Oklahoma College for Women
Western Union College
First Baptist Church
University of Vermont
Onondaga Hotel Co.
May Radio Broadcast Corpn.
Radio Shop of Newark
Wynne Radio Co.
Rosedale Hospital
Radio Company
Toledo Radio & Electric Co.

254.1 meters 1180 kilocycles

KFEL	50	Denver, Colo.
KFJZ	50	Fort Worth, Tex.
KFLR	100	Albuquerque, N. M.
KFWH	100	Eureka, Cal.
WABC	20	Asheville, N. C.
WCAJ	500	University Place, Neb.
WCBA	15	Allentown, Pa.
WEAI	500	Ithaca, N. Y.
WFBR	100	Baltimore, Md.
WFBZ	20	Galesburg, Ill.
WHBC	10	Canton, O.
WIAS	100	Burlington, Ia.
WJAK	100	Kokomo, Ind.
WJBB	10	St. Petersburg, Fla.
WNAD	500	Norman, Okla.
WREC	10	Coldwater, Miss.
WSAR	100	Fall River, Mass.
WTAQ	100	Eau Claire, Wis.

Eugene P. O'Fallon, Inc.
W. E. Branch
University of New Mexico
F. Wellington Morse, Jr.
Asheville Battery Co.
Nebraska Wesleyan University
Queen City Radio Station
Cornell University
5th Infantry, M. N. G.
Knox College
Rev. E. P. Graham
Home Electric Co.
Kokomo Tribune
Financial Journal
University of Oklahoma
Wooten's Radio & Electric Co.
Doughty & Welch Electrical Co.
C. S. Van Gorden

256.3 meters 1170 kilocycles

KFIQ	100	Yakima, Wash.
KFUS	50	Oakland, Cal.
KRE	150	Berkeley, Cal.
WBAX	100	Wilkes-Barre, Pa.
WBDC	500	Grand Rapids, Mich.
WCSH	500	Portland, Me.
WDOD	500	Chattanooga, Tenn.
WHBP	100	Johnstown, Pa.
WMBC	100	Detroit, Mich.
WRAK	100	Escanaba, Mich.
WRHF	50	Washington, D. C.
WRVA	1000	Richmond, Va.

Dr. I. M. Miller
The Gospel Radio
Berkeley Daily Gazette
John H. Stenger, Jr.
Baxter Laundry Co.
Congress Square Hotel Co.
Chattanooga Radio Co.
Johnstown Automobile Co.
Michigan Broadcasting Co., Inc.
Economy Light Co.
Washington Radio Hospital Fund
Larus & Bro. Co.

258.5 meters 1160 kilocycles

KFPW	20	Carterville, Mo.
KFUL	50	Galveston, Tex.
KOCH	250	Omaha, Neb.
WAAD	25	Cincinnati, O.
WADC	500	Akron, O.
WCMA	100	Culver, Ind.
WHEC	100	Rochester, N. Y.
WHFC	150	Chicago, Ill.
WKJC	50	Lancaster, Pa.
WLTS	250	Chicago, Ill.
WNAL	50	Omaha, Neb.

St. John's M. E. Church, South
Thos. Goggan & Bros. Music Co.
Omaha Central High School
Ohio Mechanics Institute
Allen Theatre
Culver Military Academy
Hickson Electric Co.
Hotel Flanders
Kirk Johnson & Co.
Lane Technical High School
Omaha Central High School

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WPCC 500 Chicago, Ill.
WWRL 100 Woodside, N. Y.

260.7 meters 1150 kilocycles

KFJF 500 Oklahoma City
KFMR 100 Sioux City, Ia.
KFUT 100 Salt Lake City, Utah
WABQ 100 Haverford, Pa.
WARC 100 Medford Hillsdale, Mass.
WDAY 50 Fargo, N. D.
WEAM 250 North Plainfield, N. J.
WKAF 500 Milwaukee, Wis.
WMAZ 500 Macon, Ga.
WPSC 500 State College, Pa.
WSKC 100 Bay City, Mich.
WSSH 100 Boston, Mass.
WTAR 100 Norfolk, Va.
WTAZ 15 Lambertville, N. J.
6BY* 200 Cienfuegos, Cuba

263 meters 1140 kilocycles

KFJR 50 Portland, Ore.
KFMW 50 Houghton, Mich.
KFQB 1000 Fort Worth, Tex.
KGCM 10 San Antonio, Tex.
KTBR 50 Portland, Ore.
WABR 50 Toledo, O.
WBPI 500 Newark, N. J.
WCAD 250 Canton, N. Y.
WCAR 1000 San Antonio, Tex.
WCBE 5 New Orleans, La.
WDAG 100 Amarillo, Tex.
WDGY 500 Minneapolis, Minn.
WEBZ 50 Savannah, Ga.
WRAV 100 Yellow Springs, O.
WSDA 250 New York City

265.3 meters 1130 kilocycles

KFIO 100 Spokane, Wash.
KLZ 250 Denver, Colo.
KTUE* 5 Houston, Tex.
WBCN 500 Chicago, Ill.
WDEL 100 Wilmington, Del.
WENR 1000 Chicago, Ill.
WGHB 500 Clearwater, Fla.
WMAK 500 Lockport, N. Y.
WTAB 100 Fall River, Mass.

267.7 meters 1120 kilocycles

CFJC 15 Kamloops, B. C.
CFMC 20 Kingston, Ont.
CFRC 500 Kingston, Ont.
CHLC 25 Summerside, P. E. I.
CJOC 50 Lethbridge, Alta.
KFEQ 500 Oak, Neb.
KFH 500 Wichita, Kan.
KFRC 50 San Francisco, Cal.
WBZY 10' Charleston, S. C.
WCFT 10 Tullahoma, Tenn.
WDAAH 50 El Paso, Tex.

North Shore Congregational Church
Woodside Radio Laboratory

National Radio Mfg. Co.		
Morningside College		
University of Utah		
Haverford College Radio Club		
The Amrad Corporation		
Radio Equipment Corporation		
Borough of North Plainfield		
WKAF Broadcasting Corporation		
Mercer University		
Pennsylvania State College		
World's Star Knitting Co.		
Tremont Temple Baptist Church		
Reliance Electric Co.		
Thomas J. McGuire		
Jose Ganduxe		

Ashley C. Dixon & Son		
M. G. Sataren		
Searchlight Publishing Co.		
Robert B. Bridge		
M. E. Brown		
Scott High School		
I. R. Nelson		
St. Lawrence University		
Southern Radio Corpn. of Texas		
Uhalt Bros. Radio Co.		
J. Laurence Martin		
Dr. George W. Young		
Savannah Radio Corporation		
Antioch College		
The City Temple		

North Central High School		
Reynolds Radio Co.		
Uhalt Electric		
Southtown Economist		
Wilmington Electrical Specialty Co.		
All-American Radio Corporation		
Fort Harrison Hotel		
Norton Laboratories		
Fall River Daily Herald		

N. S. Dalgleish & Sons		
Monarch Battery Co.		
Queen's University		
R. T. Holman, Ltd.		
J. E. Palmer		
Scroggin & Co. Bank		
Hotel Lassen		
City of Paris Dry Goods Co.		
Washington Light Infantry		
Knights of Pythias Home		
Trinity Methodist Church		

INDEX BY WAVE LENGTHS AND DIAL NUMBERS

WDRC	100	New Haven, Conn.	Doolittle Radio Corporation
WEBW	500	Beloit, Wis.	Beloit College
WFBM	250	Indianapolis, Ind.	Merchants Heat & Light Co.
WJAM	100	Cedar Rapids, Ia.	D. M. Perham
WJBO	100	New Orleans, La.	Valdemar Jensen
WNOX	100	Knoxville, Tenn.	Peoples Telephone & Telegraph Co.
WRAX	500	Philadelphia, Pa.	Berachah Church
WSAX	100	Chicago, Ill.	Zenith Radio Corporation
270.1 meters 1110 kilocycles			
KGU	500	Honolulu, Hawaii	Marion A. Mulroney
WBAO	100	Decatur, Ill.	James Millikin University
WDBE	100	Atlanta, Ga.	J. M. High Co.
WGHP	1500	Detroit, Mich.	George H. Phelps, Inc.
WGST	500	Atlanta, Ga.	Georgia School of Technology
WJBL	500	Decatur, Ill.	William Gushard Dry Goods Co.
WJBY	30	Gadsden, Ala.	Electric Construction Co.
WKBE	100	Webster, Mass.	K. & B. Electric Co.
WOI	750	Ames, Iowa	Iowa State College
WRK	100	Hamilton, O.	Doron Bros. Electrical Co.
WTAW	500	College Station, Tex.	Agricultural & Mechanical College
272.6 meters 1100 kilocycles			
KFAD	100	Phoenix, Ariz.	Electrical Equipment Co.
KFIZ	100	Fond du Lac, Wis.	Daily Commonwealth
KFKA	50	Greeley, Colo.	State Teachers College
KFPY*	100	Spokane, Wash.	Symons Investment Co.
KICK	100	Anita, Iowa	Atlantic Automobile Co.
WBAA	250	West Lafayette, Ind.	Purdue University
WDAE	250	Tampa, Fla.	Tampa Daily Times
WEBJ	500	New York City	Third Avenue Railway Co.
WFAM	10	St. Cloud, Minn.	Times Publishing Co.
WFBH	500	New York City	Concourse Radio Corporation
WHK	1000	Cleveland, O.	Radio Air Service Corporation
WIL	250	St. Louis, Mo.	St. Louis Star-Benson Radio Co.
WRM	500	Urbana, Ill.	University of Illinois
WSBF	250	St. Louis, Mo.	Stix, Baer & Fuller
275.1 meters 1090 kilocycles			
CYB	500	Mexico City	El Buen Tono
KFBB	50	Havre, Mont.	F. A. Buttrey Co.
KFDD	50	Boise, Ida.	St. Michaels Cathedral
KFKU	500	Lawrence, Kan.	University of Kansas
KFSG	500	Los Angeles, Cal.	Angeles Temple
KQV	500	Pittsburgh, Pa.	Doubleday-Hill Electric Co.
WABZ	50	New Orleans, La.	Coliseum Place Baptist Church
WAFD	500	Port Huron, Mich.	Albert B. Parfet Co.
WBAK	500	Harrisburg, Pa.	Pennsylvania State Police
WBT	250	Charlotte, N. C.	Chamber of Commerce
WCAC	500	Mansfield, Conn.	State Agricultural College
WCAO	100	Baltimore, Md.	Albert & Stanley Barger
WEAU	100	Sioux City, Ia.	Davidson Bros. Co.
WFAV	500	Lincoln, Neb.	University of Nebraska
WHAD	500	Milwaukee, Wis.	Marquette University
WHAR	500	Atlantic City, N. J.	Seaside Hotel
WJAS	500	Pittsburgh, Pa.	Pittsburgh Radio Supply House
WKY	100	Oklahoma City	E. C. Hull & H. S. Richards
WLAP	20	Louisville, Ky.	Virginia Avenue Baptist Church
WMAC	100	Cazenovia, N. Y.	Clive B. Meredith
WOCL	15	Jamestown, N. Y.	A. E. Newton

INDEX BY WAVE LENGTHS AND DIAL NUMBERS

WORD	5000	Batavia, Ill.	Peoples Pulpit Association
WPAK	50	Fargo, N. D.	State Agricultural College
WSBT	250	South Bend, Ind.	South Bend Tribune
WSMK	500	Dayton, Ohio	S. M. K. Radio Corporation
WSWS	1000	Wooddale, Ill.	Illinois Broadcasting Corporation
WWL	100	New Orleans, La.	Loyola University
6JK	100	Santa Clara, Cuba	Frank H. Jones
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277.6 meters 1080 kilocycles			
KFJM	100	Grand Forks, N. D.	University of North Dakota
KGY	50	Lacey, Wash.	St. Martins College
KUSD	100	Vermillion, S. D.	University of South Dakota
KWCR	500	Cedar Rapids, Iowa	Harry F. Paar
KWWG	500	Brownsville, Tex.	Chamber of Commerce
WAAF	200	Chicago, Ill.	Daily Drovers Journal
WABO	100	Rochester, N. Y.	Lake Avenue Baptist Church
WCAU	500	Philadelphia, Pa.	Universal Broadcasting Co.
WDZ	100	Tuscola, Ill.	James L. Bush
WFBG	100	Altoona, Pa.	William F. Gable Co.
WGBC	10	Memphis, Tenn.	First Baptist Church
WGBU	500	Fulford-by-Sea, Fla.	Chamber of Commerce
WHAM	100	Rochester, N. Y.	University of Rochester
WHDI	500	Minneapolis, Minn.	William Hood Dunwoody Indust'l Inst.
WLB	500	Minneapolis, Minn.	University of Minnesota
WLBL	500	Stevens Point, Wis.	State Department of Markets
WMAN	50	Columbus, O.	First Baptist Church
WOQ	1000	Kansas City, Mo.	Unity School of Christianity
WRBC	500	Valparaiso, Ind.	Immanuel Lutheran Church
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280.2 meters 1070 kilocycles			
KFAU	750	Boise, Idaho	Independent School District
KFQA	1500	St. Louis, Mo.	The Principia
KGCA	15	Decorah, Ia.	Charles Walter Greenley
KMOX	1500	St. Louis, Mo.	Voice of St. Louis, Inc.
KOAC	500	Corvallis, Ore.	Oregon Agricultural College
WJBX*	100	Osterville, Mass.	Henderson & Ross
WKBJ*	250	St. Petersburg, Fla.	Gospel Tabernacle, Inc.
WNAB	100	Boston, Mass.	Shepard Stores
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282.8 meters 1060 kilocycles			
KGBW	250	Joplin, Mo.	Martin Brotherson
WKBB	100	Joliet, Ill.	Sanders Bros.
WOAN	500	Lawrenceburg, Tenn.	James D. Vaughn
WSM	1000	Nashville, Tenn.	National Life & Accident Ins. Co.
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285.5 meters 1050 kilocycles			
KOWW*	500	Walla Walla, Wash.	Frank A. Moore
WEMC	5000	Berrien Springs, Mich.	Emmanuel Missionary College
WKAR	1000	East Lansing, Mich.	State Agricultural College
WQAM	100	Miami, Fla.	Electrical Equipment Co.
WREO	500	Lansing, Mich.	Reo Motor Car Co.
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288.3 meters 1040 kilocycles			
KFKX	5000	Hastings, Neb.	Westinghouse Elec. & Mfg. Co.
WLWL	5000	New York City	Missionary Society of St. Paul
WMBI	500	Chicago, Ill.	Moody Bible Institute
WSBC	1000	Chicago, Ill.	World Battery Co.
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291.1 meters 1030 kilocycles			
CJCQ	1000	Town of King, Ont.	Standard Radio Mfg. Corp., Ltd.

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CJOR	50	Sea Island, B. C.	G. C. Chandler
CJYC	500	Scarboro Station, Ont.	Universal Radio of Canada, Ltd.
CNRV	500	Vancouver, B. C.	Canadian National Railways
293.9 meters	1020 kilocycles		
KTBI	750	Los Angeles, Cal.	Bible Institute of L. A.
WAIU	500	Columbus, O.	American Insurance Union
WEAO	750	Columbus, O.	Ohio State University
296.9 meters	1010 kilocycles		
CFGC	50	Brantford, Ont.	Brant Radio Supply Co., Ltd.
CFLC	50	Prescott, Ont.	Radio Association of Prescott
CJRM	50	Moose Jaw, Sask.	James Richardson & Sons, Ltd.
KPRC	500	Houston, Tex.	Post-Dispatch
299.8 meters	1000 kilocycles		
CYA	500	Mexico City	Elfiran R. Gomez
KSL	1000	Salt Lake City, Utah	Radio Service Corp. of Utah
KUOA	750	Fayetteville, Ark.	University of Arkansas
WPG	500	Atlantic City, N. J.	Municipality of Atlantic City
ZOL	100	Habana, Cuba	Columbia Radio & Cycle Co.
302.8 meters	990 kilocycles		
KTAB	1000	Oakland, Cal.	Associated Broadcasters
WGN	1000	Chicago, Ill.	The Chicago Tribune
WLIB	4000	Chicago, Ill.	Liberty Magazine
WMSG	500	New York City	Madison Square Garden
305.9 meters	980 kilocycles		
KFDY	100	Brookings, S. D.	State College of Agri. & Mech. Arts
KOIL	500	Council Bluffs, Ia.	Monarch Mfg. Co.
KOMO	1000	Seattle, Wash.	Bert F. Fisher
309.1 meters	970 kilocycles		
KDKA	1000	E. Pittsburgh, Pa.	Westinghouse Elec. & Mfg. Co.
312.3 meters	960 kilocycles		
CFCY	50	Charlottetown, P. E. I.	The Island Radio Co.
CHWC	15	Regina, Sask.	R. H. Williams & Sons, Ltd.
CKCK	500	Regina, Sask.	Leader Publishing Co., Ltd.
CNRR	500	Regina, Sask.	Canadian National Railways
CYU	100	Puebla, Mex.	Augustin del P. Zaenz
KWKH	500	Shreveport, La.	W. K. Henderson Supply Co.
315.6 meters	950 kilocycles		
KFDM	500	Beaumont, Tex.	Magnolia Petroleum Co.
KPSN	1000	Pasadena, Cal.	Pasadena Star-News
WAHG	500	Richmond Hill, N. Y.	A. H. Grebe & Co.
WGBS	500	New York City	Gimbel Brothers
319 meters	940 kilocycles		
KOIN	1000	Portland, Ore.	KOIN, Inc.
WGR	750	Buffalo, N. Y.	Federal Radio Corporation
WSMB	500	New Orleans, La.	Saenger Amusement Co.
322.4 meters	930 kilocycles		
CHNS	100	Halifax, N. S.	Northern Electric Co., Ltd.
CNRA	500	Moncton, N. B.	Canadian National Railways
CYQ	100	Tampico, Mex.	Cipriano Sagaon S. on C.
KOA	5000	Denver, Colo.	General Electric Co.

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WBNY 500 New York City
WJAZ 1500 Chicago, Ill.

B. A. Ruchome Corp.
Zenith Radio Corp.

325.9 meters 920 kilocycles

CYX 500 Mexico City
CZF 250 Chihuahua, Mex.
KFWM 250 Oakland, Cal.
WKRC 1000 Cincinnati, O.
WSAI 5000 Cincinnati, O.

El Excelsior-Parker
Telephone Company
Oakland Education Society
Kodel Radio Corporation
U. S. Playing Card Co.

329.5 meters 910 kilocycles

CFCT 500 Victoria, B. C.
CFQC 500 Saskatoon, Sask.
CHUC 500 Saskatoon, Sask.
CJGC 500 London, Ont.
CJWC 250 Saskatoon, Sask.
CKCW 5000 Burketon Jct., Ont.
CNRs 500 Saskatoon, Sask.
KGCB* 50 Oklahoma City

G. W. Deaville
The Electric Shop, Ltd.
International Bible Students Assn.
Free Press Printing Co., Ltd.
Wheaton Electric Co., Ltd.
Canadian Broadcasting Corp.
Canadian National Railways
Wallace Radio Institute

333.1 meters 900 kilocycles

KGBZ 100 York, Neb.
KQW 500 San Jose, Cal.
KTNT 1000 Muscatine, Ia.
WBZ 2000 Springfield, Mass.
WBZA 250 Boston, Mass.

Federal Live Stock Remedy Co.
First Baptist Church
Tangley Calliaphone Co.
Westinghouse Elec. & Mfg. Co.
Westinghouse Elec. & Mfg. Co.

336.9 meters 890 kilocycles

KFMX 500 Northfield, Minn.
KNX 1000 Los Angeles, Cal.
WCAL 500 Northfield, Minn.
WJAX 1000 Jacksonville, Fla.

Carleton College
Evening Express
St. Olaf College
City of Jacksonville

340.7 meters 880 kilocycles

CHCS 10 Hamilton, Ont.
CHRC 5 Quebec, Que.
CKCV 50 Quebec, Que.
CKOC 50 Hamilton, Ont.
KFAB 1000 Lincoln, Neb.
KSAC 500 Manhattan, Kan.
WJBW 30 New Orleans, La.
WKAQ 500 San Juan, P. R.
WMCA 500 New York City
6KW 100 Santa Clara, Cuba

Hamilton Spectator
E. Fontaine
G. A. Vandry
Wentworth Radio Supply Co., Ltd.
Nebraska Buick Auto Co.
State Agricultural College
C. Carlson, Jr.
Radio Corporation of P. R.
Hotel McAlpin
Frank H. Jones

344.6 meters 870 kilocycles

WCBD 5000 Zion, Ill.
WLS 5000 Chicago, Ill.

Wilbur Glenn Voliva
Sears, Roebuck & Co.

348.6 meters 860 kilocycles

CZE* 500 Mexico City
KGBX* 30 St. Joseph, Mo.
KOB 1000 State College, N. M.
KWSC 500 Pullman, Wash.
WEEI 500 Boston, Mass.

Departamento de Educacion
Julius B. Abercrombie
College of Agri. & Mech. Arts
State College of Washington
Edison Electric Illuminating Co.

352.7 meters 850 kilocycles

WJAD 500 Waco, Tex.
WWJ 1000 Detroit, Mich.
2EP* 400 Habana, Cuba

Frank P. Jackson
Detroit News
El Pais

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356.9 meters 840 kilocycles

CFCA	500	Toronto, Ont.
CHIC	500	Toronto, Ont.
CHNC	500	Toronto, Ont.
CISC	500	Toronto, Ont.
CKCL	500	Toronto, Ont.
CKNC	500	Toronto, Ont.
CNRT	500	Toronto, Ont.

360 meters 833 kilocycles

WEW	1000	St. Louis, Mo.
WPAP	100	New York City
WQAO	100	New York City

361.2 meters 830 kilocycles

KGO	4000	Oakland, Cal.
WHN	500	New York City

365.6 meters 820 kilocycles

WDAF	1000	Kansas City, Mo.
WEAN*	500	Providence, R. I.
WHB	500	Kansas City, Mo.

370.2 meters 810 kilocycles

WEBH	2000	Chicago, Ill.
WGM*	10	Jeannette, Pa.
WJJD	1000	Mooseheart, Ill.

374.8 meters 800 kilocycles

KFBU	500	Laramie, Wyo.
KTHS	1000	Hot Springs, Ark.
KVOO	1000	Bristow, Okla.
WRNY	500	New York City

379.5 meters 790 kilocycles

WGY	5000	Schenectady, N. Y.
WHAZ	1000	Troy, N. Y.
WJAG	200	Norfolk, Neb.

384.4 meters 780 kilocycles

CKY	500	Winnipeg, Man.
CNRW	500	Winnipeg, Man.
KJR	1000	Seattle, Wash.
WAAW	500	Omaha, Neb.
WMBF	500	Miami Beach, Fla.
WWAE	500	Plainfield, Ill.

389.4 meters 770 kilocycles

WEAR	750	Cleveland, O.
WODA*	250	Paterson, N. J.
WTAM	3500	Cleveland, O.

394.5 meters 760 kilocycles

KHQ	1000	Spokane, Wash.
WBRS*	100	Brooklyn, N. Y.
WFI	500	Philadelphia, Pa.
WLIT	500	Philadelphia, Pa.
WOAI	2000	San Antonio, Tex.

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Star Publishing Co.
Northern Electric Co., Ltd.
Toronto Radio Research Society
Evening Telegram
Dominion Battery Co., Ltd.
Canadian National Carbon Co., Ltd.
Canadian National Railways

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St. Louis University
Palisades Amusement Park
Calvary Baptist Church

--	--	--

General Electric Co.
Loew's State Broadcasting Station

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Kansas City Star
Shepard Company
Sweeney School

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Edgewater Beach Hotel Co.
Verne & Elton Spencer
Loyal Order of Moose

--	--	--

St. Matthews Cathedral
New Arlington Hotel Co.
Voice of Oklahoma, Inc.
Experimenter Publishing Co.

--	--	--

General Electric Co.
Rensselaer Polytechnic Institute
Norfolk Daily News

--	--	--

Manitoba Telephone System
Canadian National Railways
Northwest Radio Service Co.
Omaha Grain Exchange
Fleetwood Hotel
Electric Park

--	--	--

Willard Storage Battery Co.
O'Dea Temple of Music
Willard Storage Battery Co.

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Louis Wasmer
Universal Radio Mfg. Co.
Strawbridge & Clothier
Lit Brothers
Southern Equipment Co.

INDEX BY WAVE LENGTHS AND DIAL NUMBERS

399.8 meters 750 kilocycles

CYL	500	Mexico City
PWX	500	Habana, Cuba
WHAS	500	Louisville, Ky.
WJAF*	50	Ferndale, Mich.

405.2 meters 740 kilocycles

KHJ	500	Los Angeles, Cal.
WJY	5000	New York City
WOR	500	Newark, N. J.

410.7 meters 730 kilocycles

CFCF	1650	Montreal, Que.
CFCQ	5	Vancouver, B. C.
CFDC	10	Vancouver, B. C.
CFVC	500	Burnaby, B. C.
CHYC	750	Montreal, Que.
CKAC	1200	Montreal, Que.
CKCD	1000	Vancouver, B. C.
CKFC	50	Vancouver, B. C.
CNRM	1000	Montreal, Que.

416.4 meters 720 kilocycles

WBRR	500	Rossville, N. Y.
WCCO	5000	Minneapolis-St. Paul
WCRW	50	Chicago, Ill.

422.3 meters 710 kilocycles

WKRC	1000	Cincinnati, O.
WLW	5000	Cincinnati, O.

428.3 meters 700 kilocycles

CYQ*	100	Mexico City
KPO	1000	San Francisco, Cal.
WHAP*	500	New York City
WKDR	10	Kenosha, Wis.
WNAC*	500	Boston, Mass.
WSB	1000	Atlanta, Ga.

434.5 meters 690 kilocycles

CFAC	500	Calgary, Alta.
CFCN	1800	Calgary, Alta.
CHXC	250	Ottawa, Ont.
CKCO	100	Ottawa, Ont.
CNRC	500	Calgary, Alta.
CNRO	500	Ottawa, Ont.
NAA	1000	Arlington, Va.

440.9 meters 680 kilocycles

KLDS	1000	Independence, Mo.
KMJP	1000	Kansas City, Mo.
WDWF	500	Cranston, R. I.
WLSI	500	Providence, R. I.
WMAF	1000	Dartmouth, Mass.
WOS	500	Jefferson City, Mo.

447.5 meters 670 kilocycles

KGCH*	500	Wayne, Neb.
WMAQ	1000	Chicago, Ill.
WQJ	500	Chicago, Ill.

Universal Casa del Radio
Cuban Telephone Co.
Courier-Journal & Louisville Times
J. A. Fenburg Radio Co.

Times-Mirror Co.
Radio Corporation of America
L. Bamberger & Co.

Canadian Marconi Co.
Sprott-Shaw Radio Co.
A. Holstead & Wm. Hanlon
International Bible Students Assn.
Northern Electric Co., Ltd.
La Presse Publishing Co., Ltd.
Vancouver Daily Province
United Churches of Canada
Canadian National Railways

Peoples Pulpit Association
Washburn-Crosby Co.
Clinton R. White

Kodel Radio Corporation
Crosley Radio Corporation

Martinez y Zetina
Hale Brothers
Wm. H. Taylor Finance Corp.
Edward A. Dato
Shepard Stores
Atlanta Journal

Calgary Herald
W. W. Grant, Ltd.
J. R. Booth
Dr. G. M. Geldert
Canadian National Railways
Canadian National Railways
United States Navy Dept.

Church of Latter Day Saints
Kansas City Journal-Post
Dutee W. Flint
Lincoln Studios
Round Hills Radio Corpn.
State Marketing Bureau

Wayne Hospital
Chicago Daily News
Calumet Rainbo Broadcasting Co.

INDEX BY WAVE LENGTHS AND DIAL NUMBERS

454.3 meters 660 kilocycles

KFOA 1000 Seattle, Wash.
KTW 1500 Seattle, Wash.
WJZ Var. New York City

461.3 meters 650 kilocycles

KFNF 1000 Shenandoah, Ia.
KMA 500 Shenandoah, Ia.
WCAE 500 Pittsburgh, Pa.

468.5 meters 640 kilocycles

KFI* 4000 Los Angeles, Cal.
WJBV* 100 Woodhaven, N. Y.
WRC 1000 Washington, D. C.

475.9 meters 630 kilocycles

WBAP 1500 Fort Worth, Tex.
WFAA 500 Dallas, Tex.
WTIC 500 Hartford, Conn.

483.6 meters 620 kilocycles

WJAR* 500 Providence, R. I.
WOC 5000 Davenport, Ia.
WSUI 500 Iowa City, Ia.

491.5 meters 610 kilocycles

FAM 1000 Guadalajara, Mex.
KGW 1000 Portland, Ore.
WCFL 100 Chicago, Ill.
WEAF 5000 New York City

499.7 meters 600 kilocycles

CFCH 250 Iroquois Falls, Ont.
KFRU 500 Columbia, Mo.
WMC 500 Memphis, Tenn.

508.2 meters 590 kilocycles

KLX 500 Oakland, Cal.
WIP 500 Philadelphia, Pa.
WOO 500 Philadelphia, Pa.

516.9 meters 580 kilocycles

CHCY 250 Edmonton, Alta.
CJCA 500 Edmonton, Alta.
CNRE 500 Edmonton, Alta.
WCX 5000 Detroit, Mich.
WJR 5000 Pontiac, Mich.

526 meters 570 kilocycles

WHO 5000 Des Moines, Ia.
WNYC 1000 New York City
WOAW 1000 Omaha, Neb.

535.4 meters 560 kilocycles

KYW 3500 Chicago, Ill.
WHA 750 Madison, Wis.

545.1 meters 550 kilocycles

KFUO 500 St. Louis, Mo.
KSD 500 St. Louis, Mo.
WTAG 500 Worcester, Mass.

Rhodes Department Store		
First Presbyterian Church		
Radio Corporation of America		

Henry Field Seed Co.		
May Seed & Nursery Co.		
Kaufmann & Baer Co.		

Earl C. Anthony, Inc.		
Union Course Laboratories		
Radio Corporation of America		

Star-Telegram		
Dallas News & Dallas Journal		
Travelers Insurance Co.		

The Outlet Co.		
Palmer School of Chiropractic		
State University of Iowa		

Federal Military Command		
Morning Oregonian		
Chicago Federation of Labor		
Broadcasting Co. of America, Inc.		

Abitibi Power & Paper Co., Ltd.		
Stephens College		
Commercial-Appeal		

Oakland Tribune		
Gimbel Bros.		
John Wanamaker		

International Bible Students Assn.		
Edmonton Journal, Ltd.		
Canadian National Railways		
Detroit Free Press		
Jewett Radio & Phonograph Co.		

Bankers Life Co.		
City of New York		
Woodmen of the World		

Westinghouse Elec. & Mfg. Co.		
University of Wisconsin		

Concordia Seminary		
St. Louis Post-Dispatch		
Worcester Telegram		

A COMPLETE INDEX BY CALL LETTERS

CFAC	434.5			CJCF	247.8
Calgary, Alta.				Kitchener, Ont.	
CFCA	356.9			CJRM	296.9
Toronto, Ont.				Moose Jaw, Sask.	
CFCF	410.7			CJCQ	291.1
Montreal, Que.				Town of King, Ont.	
CFCH	499.7			CJGC	329.5
Iroquois Falls, Ont.				London, Ont.	
CFCK	516.9			CJOC	267.7
Edmonton, Alta.				Lethbridge, Alta.	
CFCN	434.5			CJOR	291.1
Calgary, Alta.				Sea Island, B. C.	
CFCQ	410.7			CJSC	356.9
Vancouver, B. C.				Toronto, Ont.	
CFCT	329.5			CJWC	329.5
Victoria, B. C.				Saskatoon, Sask.	
CFCY	312.3			CJYC	291.1
Charlottetown, P.E.I.				Scarboro, Ont.	
CFDC	410.7			CKAC	410.7
Vancouver, B. C.				Montreal, Que.	
CFGC	296.9			CKCD	410.7
Brantford, Ont.				Vancouver, B. C.	
CFJC	267.7			CKCK	312.3
Kamloops, B. C.				Regina, Sask.	
CFLC	296.9			CKCL	356.9
Prescott, Ont.				Toronto, Ont.	
CFMC	267.7			CKCO	434.5
Kingston, Ont.				Ottawa, Ont.	
CFQC	329.5			CKCV	340.7
Saskatoon, Sask.				Quebec, Que.	
CFRC	267.7			CKCW	329.5
Kingston, Ont.				Burketon Jct., Ont.	
CFVC	410.7			CKFC	410.7
Burnaby, B. C.				Vancouver, B. C.	
CHCO	247.8			CKNC	356.9
Huntsville, Ont.				Toronto, Ont.	
CHCS	340.7			CKOC	340.7
Hamilton, Ont.				Hamilton, Ont.	
CHCY	516.9			CKPC	247.8
Edmonton, Alta.				Preston, Ont.	
CHIC	356.9			CKY	384.4
Toronto, Ont.				Winnipeg, Man.	
CHLC	267.7			CNRA	322.4
Summerside, P.E.I.				Moncton, N. B.	
CHNC	356.9			CNRG	434.5
Toronto, Ont.				Calgary, Alta.	
CHNS	322.4			CNRE	516.9
Halifax, N. S.				Edmonton, Alta.	
CHRC	340.7			CNRM	410.7
Quebec, Que.				Montreal, Que.	
CHUC	329.5			CNRO	434.5
Saskatoon, Sask.				Ottawa, Ont.	
CHWC	312.3			CNRR	312.3
Regina, Sask.				Regina, Sask.	
CHXC	434.5			CNRS	329.5
Ottawa, Ont.				Saskatoon, Sask.	
CHYC	410.7			CNRT	356.9
Montreal, Que.				Toronto, Ont.	
CJCA	516.9			CNRV	291.1
Edmonton, Alta.				Vancouver, B. C.	

A COMPLETE INDEX BY CALL LETTERS

CNRW	384.4		KFDZ	230.6	
Winnipeg, Man.			Minneapolis		
CYA	299.8		KFEC	247.8	
Mexico City			Portland, Ore.		
CYB	275.1		KFEL	254.1	
Mexico City			Denver, Colo.		
CYL	399.8		KFEQ	267.7	
Mexico City			Oak, Neb.		
CYO	425		KFEY	232.4	
Mexico City			Kellogg, Idaho		
CYQ	322.4		KFFP	241.8	
Tampico, Mex.			Moberly, Mo.		
CYR	475.9		KFGQ	225.4	
Mazatlan, Mex.			Boone, Iowa		
CYU	312.3		KFH	267.7	
Puebla, Mex.			Wichita, Kan.		
CYX	325.9		KFHA	251.9	
Mexico City			Gunnison, Colo.		
CZE	350		KFHL	239.9	
Mexico City			Oskaloosa, Ia.		
CZF	325.9		KFI	467	
Chihuahua, Mex.			Los Angeles		
FAM	491.5		KFIF	247.8	
Guadalajara, Mex.			Portland, Ore.		
KDKA	309.1		KFIO	265.3	
E. Pittsburgh, Pa.			Spokane, Wash.		
KDLR	230.6		KFIQ	256.3	
Devils Lake, N. D.			Yakima, Wash.		
KDYL	245.8		KFIU	225.4	
Salt Lake City			Juneau, Alaska		
KFAB	340.7		KFIZ	272.6	
Lincoln, Neb.			Fond du Lac, Wis.		
KFAD	272.6		KFJB	247.8	
Phoenix, Ariz.			Marshalltown, Ia.		
KFAF	217.3		KFJC	218.8	
San Jose, Cal.			Junction City, Kan.		
KFAU	280.2		KFJF	260.7	
Boise, Idaho			Oklahoma City		
KFBB	275.1		KFJI	245.8	
Havre, Mont.			Astoria, Ore.		
KFBC	215.7		KFJM	277.6	
San Diego, Cal.			Grand Forks, N. D.		
KFBK	247.8		KFJR	263	
Sacramento, Cal.			Portland, Ore.		
KFBL	223.7		KFJY	245.8	
Everett, Wash.			Ft. Dodge, Ia.		
KFBS	237.9		KFJZ	254.1	
Trinidad, Colo.			Ft. Worth, Tex.		
KFBU	374.8		KFKA	272.6	
Laramie, Wyo.			Greeley, Colo.		
KFCB	237.9		KFKU	275.1	
Phoenix, Ariz.			Lawrence, Kan.		
KFDD	275.1		KFKX	288.3	
Boise, Idaho			Hastings, Neb.		
KFDM	315.6		KFKZ	225.4	
Beaumont, Tex.			Kirksville, Mo.		
KFDX	230.6		KFLR	254.1	
Shreveport, La.			Albuquerque, N. M.		
KFDY	305.9		KFLU	236.1	
Brookings, S. D.			San Benito, Tex.		

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KFLV	228.9			KFSD	245.8		
Rockford, Ill.				San Diego, Cal.			
KFLX	239.9			KFSG	275.1		
Galveston, Tex.				Los Angeles			
KFMR	260.7			KFUL	258.5		
Sioux City, Ia.				Galveston, Tex.			
KFMW	263			KFUM	239.9		
Houghton, Mich.				Colo. Springs, Colo.			
KFMX	336.9			KFUO	545.1		
Northfield, Minn.				St. Louis, Mo.			
KFNF	461.3			KFUP	234.2		
Shenandoah, Ia.				Denver, Colo.			
KFOA	454.3			KFUR	223.7		
Seattle, Wash.				Ogden, Utah			
KFOB	225.4			KFUS	256.3		
Burlingame, Cal.				Oakland, Cal.			
KFON	232.4			KFUT	260.7		
Long Beach, Cal.				Salt Lake City			
KFOO	236.1			KFUU	220.4		
Salt Lake City				Oakland, Cal.			
KFOR	225.4			KFVD	205.4		
David City, Neb.				San Pedro, Cal.			
KFOT	230.6			KFVE	239.9		
Wichita, Kan.				St. Louis, Mo.			
KFOX	247.8			KFVG	236.1		
Omaha, Neb.				Independence, Kan.			
KFOY	251.9			KFVI	239.9		
St. Paul, Minn.				Houston, Tex.			
KFPL	251.9			KFVN	227.1		
Dublin, Tex.				Fairmont, Minn.			
KFPM	241.8			KFVR	243.8		
Greenville, Tex.				Denver, Colo.			
KFPR	230.6			KFVS	223.7		
Los Angeles				Cape Girardeau, Mo.			
KFPW	258.5			KFVY	249.9		
Carterville, Mo.				Albuquerque, N. M.			
KFPY	273			KFWB	251.9		
Spokane, Wash.				Hollywood, Cal.			
KFQA	280.2			KFWC	211.1		
St. Louis, Mo.				San Bernardino, Cal.			
KFQB	263			KFWF	214.2		
Ft. Worth, Tex.				St. Louis, Mo.			
KFQD	227.1			KFWH	254.1		
Anchorage, Alaska				Chico, Cal.			
KFQP	223.7			KFWI	225.4		
Iowa City, Ia.				S. San Francisco			
KFQU	230.6			KFWM	325.9		
Holy City, Cal.				Oakland, Cal.			
KFQW	215.7			KFWO	211.1		
North Bend, Wash.				Avalon, Cal.			
KFQZ	225.4			KFWU	237.9		
Hollywood, Cal.				Pineville, La.			
KFRB	247.8			KFWV	212.6		
Beeville, Tex.				Portland, Ore.			
KFRC	267.7			KFXB	202.6		
San Francisco				Big Bear Lake, Cal.			
KFRU	499.7			KFXD	205.4		
Columbia, Mo.				Logan, Utah			
KFRW	218.8			KFXF	249.9		
Olympia, Wash.				Colo. Springs, Colo.			

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KFXH	241.8		KICK	272.6	
El Paso, Tex.			Anita, Iowa		
KFXJ	215.7		KJBS	220.4	
Denver, Colo.			San Francisco		
KFXR	214.2		KJR	384.4	
Oklahoma City			Seattle, Wash.		
KFXY	205.4		KLDS	440.9	
Flagstaff, Ariz.			Independence, Mo.		
KFYF	205.4		KLS	249.9	
Oxnard, Cal.			Oakland, Cal.		
KFYJ	237.9		KLX	508.2	
Houston, Tex.			Oakland, Cal.		
KFYO	209.7		KLZ	265.3	
Texarkana, Tex.			Denver, Colo.		
KFYR	247.8		KMA	461.3	
Bismarck, N. D.			Shenandoah, Ia.		
KGAR	243.8		KMJ	234.2	
Tucson, Ariz.			Fresno, Cal.		
KGBS	227.1		KMJP	440.9	
Seattle, Wash.			Kansas City, Mo.		
KGBU	228.9		KMMJ	228.9	
Ketchikan, Alaska			Clay Center, Neb.		
KGBW	282.8		KMO	249.9	
Joplin, Mo.			Tacoma, Wash.		
KGBX	347.8		KMOX	280.2	
St. Joseph, Mo.			St. Louis, Mo.		
KGBY	202.6		KMTR	237.9	
Shelby, Mont.			Los Angeles		
KGBZ	233.1		KNRC	208.2	
York, Neb.			Los Angeles		
KGCA	280.2		KNX	336.9	
Decorah, Iowa			Los Angeles		
KGCB	331		KOA	322.4	
Oklahoma City			Denver, Colo.		
KGCG	234.2		KOAC	280.2	
Newark, Ark.			Corvallis, Ore.		
KGCH	450		KOB	348.6	
Wayne, Neb.			State College, N. M.		
KGCI	239.9		KOCH	258.5	
San Antonio, Tex.			Omaha, Neb.		
KGCL	230.6		KOCW	251.9	
Seattle, Wash.			Chickasha, Okla.		
KGCM	263		KOIL	305.9	
San Antonio, Tex.			Council Bluffs, Ia.		
KGCN	209.7		KOIN	319	
Concordia, Kan.			Portland, Ore.		
KGO	361.2		KOMO	305.9	
Oakland, Cal.			Seattle, Wash.		
KGTT	206.8		KOWW	285	
San Francisco			Walla Walla, Wash.		
KGU	270.1		KPO	428.3	
Honolulu			San Francisco		
KGW	491.5		KPPC	228.9	
Portland, Ore.			Pasadena, Cal.		
KGY	277.6		KPRC	296.9	
Lacey, Wash.			Houston, Tex.		
KHJ	405.2		KPSN	315.6	
Los Angeles			Pasadena, Cal.		
KHQ	394.5		KQV	275.1	
Spokane, Wash.			Pittsburgh, Pa.		

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KQW	333.1		WAAD	258.5
San Jose, Cal.			Cincinnati, O.	
KRE	256.3		WAAF	277.6
Berkeley, Cal.			Chicago, Ill.	
KSAC	340.7		WAAW	384.4
Manhattan, Kan.			Omaha, Neb.	
KSD	545.1		WABB	203.9
St. Louis, Mo.			Harrisburg, Pa.	
KSL	299.8		WABC	254.1
Salt Lake City			Asheville, N. C.	
KSMR	209.7		WABI	239.9
Santa Maria, Cal.			Bangor, Me.	
KSO	241.8		WABO	277.6
Clarinda, Ia.			Rochester, N. Y.	
KTAB	302.8		WABQ	260.7
Oakland, Cal.			Haverford, Pa.	
KTBI	293.9		WABR	263
Los Angeles			Toledo, O.	
KTBR	263		WABW	206.8
Portland, Ore.			Wooster, O.	
KTHS	374.8		WABX	245.8
Hot Springs, Ark.			Mt. Clemens, Mich.	
KTNT	333.1		WABY	241.8
Muscatine, Ia.			Philadelphia	
KTUE	265		WABZ	275.1
Houston, Tex.			New Orleans	
KTW	454.3		WADC	258.5
Seattle, Wash.			Akron, O.	
KUOA	299.8		WAFD	275.1
Fayetteville, Ark.			Pt. Huron, Mich.	
KUOM	243.8		WAGM	225.4
Missoula, Mont.			Royal Oak, Mich.	
KUSD	277.6		WAHG	315.6
Vermillion, S. D.			Richmond-Hill, N.Y.	
KUT	230.6		WAIT	228.9
Austin, Tex.			Taunton, Mass.	
KVOO	374.8		WAIU	293.9
Bristow, Okla.			Columbus, O.	
KWCR	277.6		WAMD	243.8
Cedar Rapids, Ia.			Minneapolis	
KWG	247.8		WAPI	247.8
Stockton, Cal.			Auburn, Ala.	
KWKC	236.1		WARC	260.7
Kansas City, Mo.			Medford Hillside	
KWKH	312.3		WATT	243.8
Shreveport, La.			Boston, Mass.	
KWSC	348.6		WBAA	272.6
Pullman, Wash.			W. Lafayette, Ind.	
KWUC	251.9		WBAK	275.1
Le Mars, Ia.			Harrisburg, Pa.	
KWWG	277.6		WBAL	245.8
Brownsville, Tex.			Baltimore, Md.	
KYW	535.4		WBAO	270.1
Chicago, Ill.			Decatur, Ill.	
KZM	239.9		WBAP	475.9
Oakland, Cal.			Ft. Worth, Tex.	
NAA	434.5		WBAW	241.8
Arlington, Va.			Nashville, Tenn.	
PWX	399.8		WBAX	256.3
Havana, Cuba.			Wilkes-Barre, Pa.	

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WBBC	249.9			WCAT	239.9		
Brooklyn, N. Y.				Rapid City, S. D.			
WBBL	228.9			WCAU	277.6		
Richmond, Va.				Philadelphia			
WBBM	225.4			WCAX	251.9		
Chicago, Ill.				Burlington, Vt.			
WBBP	237.9			WCBA	254.1		
Petoskey, Mich.				Allentown, Pa.			
WBBR	416.4			WCBD	344.6		
Rossville, N. Y.				Zion, Ill.			
WBBS	251.9			WCBE	263		
New Orleans				New Orleans			
WBBW	222.1			WCBH	241.8		
Norfolk, Va.				Oxford, Miss.			
WBBY	267.7			WCBM	228.9		
Charleston, S. C.				Baltimore, Md.			
WBBZ	215.7			WCBR	209.7		
Chicago, Ill.				Providence, R. I.			
WBCN	265.3			WCBS	242		
Chicago, Ill.				Providence, R. I.			
WBDC	256.3			WCCO	416.4		
Grand Rapids, Mich.				Minneapolis			
WBES	222.1			WCFL	491.5		
Takoma Park, Md.				Chicago, Ill.			
WBNY	322.4			WCFT	267.7		
New York City				Tullahoma, Tenn.			
WBOQ	236.1			WCLO	230.6		
Richmond Hill, N.Y.				Camp Lake, Wis.			
WBPI	263			WCLS	214.2		
Newark, N. J.				Joliet, Ill.			
WBRC	247.8			WCMA	258.5		
Birmingham, Ala.				Culver, Ind.			
WBRE	230.6			WCOA	222.1		
Wilkes-Barre, Pa.				Pensacola, Fla.			
WBRS	394			WCRW	416.4		
Brooklyn, N. Y.				Chicago, Ill.			
WBT	275.1			WCSH	256.3		
Charlotte, N. C.				Portland, Me.			
WBZ	331.1			WCSO	247.8		
Springfield, Mass.				Springfield, O.			
WBZA	331.1			WCWS	209.7		
Boston, Mass.				Providence, R. I.			
WCAC	275.1			WCX	516.9		
Mansfield, Conn.				Detroit, Mich.			
WCAD	263			WDAD	225.4		
Canton, N. Y.				Nashville, Tenn.			
WCAE	461.3			WDAE	272.6		
Pittsburgh, Pa.				Tampa, Fla.			
WCAJ	254.1			WDAF	365.6		
University Pl., Neb.				Kansas City, Mo.			
WCAL	336.9			WDAG	263		
Northfield, Minn.				Amarillo, Tex.			
WCAM	236			WDAH	267.7		
Camden, N. J.				El Paso, Tex.			
WCAO	275.1			WDAY	260.7		
Baltimore, Md.				Fargo, N. D.			
WCAP	468.5			WDBE	270.1		
Washington, D. C.				Atlanta, Ga.			
WCAR	263			WDBJ	228.9		
San Antonio, Tex.				Roanoke, Va.			

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Cleveland, O.					St. Cloud, Minn.				
WDBO	239.9				WFAV	275.1			
Winter Park, Fla.					Lincoln, Neb.				
WDBZ	232.4				WFBC	249.9			
Kingston, N. Y.					Knoxville, Tenn.				
WDEL	265.3				WFBE	225.4			
Wilmington, Del.					Seymour, Ind.				
WDGY	263				WFBG	277.6			
Minneapolis					Altoona, Pa.				
WDOD	256.3				WFBH	272.6			
Chattanooga, Tenn.					New York City				
WDRC	267.7				WFBJ	236.1			
New Haven, Conn.					Collegeville, Minn.				
WDWF	440.9				WFBL	251.9			
Cranston, R. I.					Syracuse, N. Y.				
WDZ	277.6				WFBM	267.7			
Tuscola, Ill.					Indianapolis				
WEAF	491.5				WFBR	254.1			
New York City					Baltimore, Md.				
WEAI	254.1				WFbz	254.1			
Ithaca, N. Y.					Galesburg, Ill.				
WEAM	260.7				WFCI	229			
N. Plainfield, N. J.					Pawtucket, R. I.				
WEAN	367				WFDF	234.2			
Providence, R. I.					Flint, Mich.				
WEAO	293.9				WFI	394.5			
Columbus, O.					Philadelphia				
WEAR	389.4				WFKB	217.3			
Cleveland, O.					Chicago, Ill.				
WEAU	275.1				WFRL	205.4			
Sioux City, Ia.					Brooklyn, N. Y.				
WEBC	241.8				WGAL	247.8			
Superior, Wis.					Lancaster, Pa.				
WEBH	370.2				WGBB	243.8			
Chicago, Ill.					Freeport, N. Y.				
WEBJ	272.6				WGBC	277.6			
New York City					Memphis, Tenn.				
WEBL	225.4				WGBF	236.1			
U. S. (Portable)					Evansville, Ind.				
WEBQ	225.4				WGBI	239.9			
Harrisburg, Ill.					Scranton, Pa.				
WEBR	243.8				WGBR	229			
Buffalo, N. Y.					Marshfield, Wis.				
WEBW	267.7				WGBS	315.6			
Beloit, Wis.					New York City				
WEBZ	263				WGBU	277.6			
Savannah, Ga.					Fulford-by-Sea, Fla.				
WEEI	348.6				WGBX	234.2			
Boston, Mass.					Orono, Me.				
WEHS	202.6				WGCP	251.9			
Evanston, Ill.					Newark, N. J.				
WEMC	285.5				WGES	249.9			
Berrien Spgs., Mich.					Chicago, Ill.				
WENR	265.3				WGHB	265.3			
Chicago, Ill.					Clearwater, Fla.				
WEW	360				WGHP	270.1			
St. Louis, Mo.					Detroit, Mich.				
WFAA	475.9				WGM	372			
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WGN	302.8		WHN	361.2	
Chicago, Ill.			New York City		
WGR	319		WHO	526	
Buffalo, N. Y.			Des Moines, Ia.		
WGST	270.1		WHT	237.9	
Atlanta, Ga.			Chicago, Ill.		
WGY	379.5		WIAD	249.9	
Schenectady, N. Y.			Philadelphia		
WHA	535.4		WIAS	254.1	
Madison, Wis.			Burlington, Ia.		
WHAD	275.1		WIBA	236.1	
Milwaukee, Wis.			Madison, Wis.		
WHAM	277.6		WIBG	222.1	
Rochester, N. Y.			Elkins Park, Pa.		
WHAP	431		WIBH	209.7	
New York City			New Bedford, Mass.		
WHAR	275.1		WIBI	218.8	
Atlantic City, N. J.			Flushing, N. Y.		
WHAS	399.8		WIBJ	215.7	
Louisville, Ky.			Chicago, Ill.		
WHAZ	379.5		WIBM	215.7	
Troy, N. Y.			Chicago, Ill.		
WHB	365.6		WIBO	225.4	
Kansas City, Mo.			Chicago, Ill.		
WHBA	249.9		WIBR	245.8	
Oil City, Pa.			Steubenville, O.		
WHBC	254.1		WIBS	202.6	
Canton, O.			Elizabeth, N. J.		
WHBD	222.1		WIBU	222.1	
Bellefontaine, O.			Poynette, Wis.		
WHBF	222.1		WIBW	220.4	
Rock Island, Ill.			Logansport, Ind.		
WHBG	230.6		WIBX	234.2	
Harrisburg, Pa.			Utica, N. Y.		
WHBJ	234.2		WIBZ	230.6	
Ft. Wayne, Ind.			Montgomery, Ala.		
WHBL	215.7		WIL	272.6	
Chicago, Ill.			St. Louis, Mo.		
WHBM	215.7		WIOD	247.8	
Chicago, Ill.			Miami Beach, Fla.		
WHBN	237.9		WIP	508.2	
St. Petersburg, Fla.			Philadelphia		
WHBP	256.3		WJAD	352.7	
Johnstown, Pa.			Waco, Tex.		
WHBQ	232.4		WJAF	400	
Memphis, Tenn.			Ferndale, Mich.		
WHBU	218.8		WJAG	379.5	
Anderson, Ind.			Norfolk, Neb.		
WHBW	215.7		WJAK	254.1	
Philadelphia			Kokomo, Ind.		
WHBY	249.9		WJAM	267.7	
West De Pere, Wis.			Cedar Rapids, Ia.		
WHDI	277.6		WJAR	485.1	
Minneapolis			Providence, R. I.		
WHEC	258.5		WJAS	275.1	
Rochester, N. Y.			Pittsburgh, Pa.		
WHFC	258.5		WJAX	336.9	
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WJBA	206.8			WKBH	249.9
Joliet, Ill.				La Crosse, Wis.	
WJBB	254.1			WKBI	220.4
St. Petersburg, Fla.				Chicago, Ill.	
WJBC	234.2			WKBJ	280
La Salle, Ill.				St. Petersburg, Fla.	
WJBI	218.8			WKDR	428.3
Red Bank, N. J.				Kenosha, Wis.	
WJBK	232.4			WKJC	258.5
Ypsilanti, Mich.				Lancaster, Pa.	
WJBL	270.1			WKRC	{ 325.9 422.3
Decatur, Ill.				Cincinnati, O.	
WJBO	267.7			WKY	275.1
New Orleans, La.				Oklahoma City	
WJBR	227.1			WLAL	249.9
Omro, Wis.				Tulsa, Okla.	
WJBT	237.9			WLAP	275.1
Chicago, Ill.				Louisville, Ky.	
WJBÜ	211.1			WLB	277.6
Lewisburg, Pa.				Minneapolis	
WJBV	469.9			WLBL	277.6
Woodhaven, N. Y.				Stevens Point, Wis.	
WJBW	340.7			WLIB	302.8
New Orleans, La.				Chicago, Ill.	
WJBX	280			WLIT	394.5
Osterville, Mass.				Philadelphia	
WJBY	270.1			WLS	344.6
Gadsden, Ala.				Chicago, Ill.	
WJJD	370.2			WLSI	440.9
Mooseheart, Ill.				Providence, R. I.	
WJR	516.9			WLTS	258.5
Pontiac, Mich.				Chicago, Ill.	
WJY	405.2			WLW	422.3
New York City				Cincinnati, O.	
WJZ	454.3			WLWL	288.3
New York City				New York City	
WCAF	260.7			WMAC	275.1
Milwaukee, Wis.				Cazenovia, N. Y.	
WKAQ	340.7			WMAF	440.9
San Juan, P. R.				Dartmouth, Mass.	
WKAR	285.5			WMAK	265.3
East Lansing, Mich.				Lockport, N. Y.	
WKAV	223.7			WMAL	212.6
Laconia, N. H.				Washington, D. C.	
WKBA	209.7			WMAN	277.6
Chicago, Ill.				Columbus, O.	
WKBB	282.8			WMAQ	447.5
Joliet, Ill.				Chicago, Ill.	
WKBC	225			WMAY	247.8
Birmingham, Ala.				St. Louis, Mo.	
WKBD	235			WMAZ	260.7
Jersey City, N. J.				Macon, Ga.	
WKBE	270.1			WMBB	249.9
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WKF	244				
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Miami Beach, Fla.				Kansas City, Mo.			
WMBI	288.3			WOR	405.2		
Chicago, Ill.				Newark, N. J.			
WMC	499.7			WORD	275.1		
Memphis, Tenn.				Batavia, Ill.			
WMCA	340.7			WOS	440.9		
New York City				Jefferson City, Mo.			
WMRJ	227.1			WOWO	227.1		
Jamaica, N. Y.				Ft. Wayne, Ind.			
WMSG	302.8			WPAK	275.1		
New York City				Fargo, N. D.			
WNAB	280.2			WPAP	360		
Boston, Mass.				New York City			
WNAC	430.1			WPCC	258.5		
Boston, Mass.				Chicago, Ill.			
WNAD	254.1			WPDQ	205.4		
Norman, Okla.				Buffalo, N. Y.			
WNAL	258.5			WPG	299.8		
Omaha, Neb.				Atlantic City, N. J.			
WNAT	249.9			WPRC	215.7		
Philadelphia				Harrisburg, Pa.			
WNAX	243.8			WPSC	260.7		
Yankton, S. D.				State College, Pa.			
WNBH	247.8			WQAA	220.4		
New Bedford, Mass.				Parkesburg, Pa.			
WNJ	251.9			WQAC	234.2		
Newark, N. J.				Amarillo, Tex.			
WNOX	267.7			WQAE	245.8		
Knoxville, Tenn.				Springfield, Vt.			
WNRC	223.7			WQAM	285.5		
Greensboro, N. C.				Miami, Fla.			
WNYC	526			WQAN	249.9		
New York City				Scranton, Pa.			
WOAI	394.5			WQAO	360		
San Antonio, Tex.				New York City			
WOAN	282.8			WQJ	447.5		
Lawrenceburg, Tenn.				Chicago, Ill.			
WOAW	526			WRAF	223.7		
Omaha, Neb.				LaPorte, Ind.			
WOAX	239.9			WRAH	235		
Trenton, N. J.				Providence, R. I.			
WOC	483.6			WRAK	256.3		
Davenport, Ia.				Escanaba, Mich.			
WOCL	275.1			WRAM	243.8		
Jamestown, N. Y.				Galesburg, Ill.			
WODA	390.9			WRAV	263		
Paterson, N. J.				Yellow Springs, O.			
WOI	270.1			WRRAW	237.9		
Ames, Ia.				Reading, Pa.			
WOK	217.3			WRAX	267.7		
Chicago, Ill.				Gloucester City, N. J.			
WOKO	232.4			WRBC	277.6		
Peekskill, N. Y.				Valparaiso, Ind.			
WOO	508.2			WRC	468.5		
Philadelphia				Washington, D. C.			

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WREO	285.5			WSSH	260.7		
Lansing, Mich.				Boston, Mass.			
WRHF	256.3			WSUI	483.6		
Washington, D. C.				Iowa City, Ia.			
WRHM	251.9			WSVS	218.8		
Minneapolis				Buffalo, N. Y.			
WRK	270.1			WSWS	275.1		
Hamilton, O.				Wooddale, Ill.			
WRM	272.6			WTAB	265.3		
Urbana, Ill.				Fall River, Mass.			
WRMU	236.1			WTAD	236.1		
Richmond Hill, N.Y.				Chicago, Ill.			
WRNY	374.8			WTAG	545.1		
New York City				Worcester, Mass.			
WRR	245.8			WTAL	251.9		
Dallas, Tex.				Toledo, O.			
WRST	215.7			WTAM	389.4		
Bay Shore, N. Y.				Cleveland, O.			
WRVA	256.3			WTAQ	254.1		
Richmond, Va.				Eau Claire, Wis.			
WSAI	325.9			WTAR	260.7		
Cincinnati, O.				Norfolk, Va.			
WSAJ	228.9			WTAW	270.1		
Grove City, Pa.				College Station, Tex.			
WSAN	228.9			WTAX	230.6		
Allentown, Pa.				Streator, Ill.			
WSAR	254.1			WTAZ	260.7		
Fall River, Mass.				Lambertville, N. J.			
WSAU	228.9			WTIC	475.9		
Chesham, N. H.				Hartford, Conn.			
WSAX	267.7			WWAE	384.4		
Chicago, Ill.				Plainfield, Ill.			
WSAZ	243.8			WWJ	352.7		
Pomeroy, O.				Detroit, Mich.			
WSB	428.3			WWL	275.1		
Atlanta, Ga.				New Orleans			
WSBC	288.3			WWRL	258.5		
Chicago, Ill.				Woodside, N. Y.			
WSBF	272.6			2EP	355		
St. Louis, Mo.				Habana, Cuba			
WSBT	275.1			2LR	235		
South Bend, Ind.				Habana, Cuba			
WSDA	263			2OL	299.8		
New York City				Habana, Cuba			
WSKC	260.7			6BY	260		
Bay City, Mich.				Cienfuegos, Cuba			
WSM	282.8			6JK	275.1		
Nashville, Tenn.				Santa Clara, Cuba			
WSMB	319			6KW	340.7		
New Orleans, La.				Santa Clara, Cuba			
WSMH	239.9			8BY	249.9		
Owosso, Mich.				Santiago, Cuba			
WSMK	275.1						
Dayton, O.							

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Auburn K-20-b	WAPI	247.8		KFWI	225.4
Birmingham K-19-a	WBRC	247.8		KGTT	206.8
	WKBC	225		KJBS	220.4
Gadsden K-20-a	WJBY	270.1		KPO	428.3
Montgomery K-19-b	WIBZ	230.6	San Jose I-2	KFAF	217.3
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Anchorage	KFQD	227.1	San Pedro K-3	KFVD	205.4
Juneau	KFIU	225.4	Santa Maria J-2-b	KSMR	209.7
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	KFCB	237.9		KFEL	254.1
Tucson L-7	KGAR	243.8		KFUP	234.2
ARKANSAS				KFVR	243.8
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Berkeley H-1-a	KRE	256.3		KFBS	237.9
Big Bear Lake	KFXB	202.6	CONNECTICUT		
Burlingame H-1-d	KFOB	225.4	Hartford E-26-d	WTIC	475.9
Eureka G-1	KFWH	254.1	Mansfield E-27-i	WCAC	275.1
Fresno I-3	KMJ	234.2	New Haven F-26-b	WDRC	267.7
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	KFWB	251.9	Wilmington G-25	WDEL	265.3
	KMTR	237.9	D. of C.		
Holy City	KFQU	230.6	Washington G-24-c	WCAP	468.5
Long Beach K-4-a	KFON	232.4		WMAL	212.6
Los Angeles K-3-b	KFI	467		WRC	468.5
	KFPR	230.6		WRHF	256.3
	KFSG	275.1	FLORIDA		
	KHJ	405.2	Clearwater N-21	WGHB	265.3
Oakland H-1-b	KNRC	208.2	Fulford-by-Sea O-22	WGBU	277.6
	KNX	336.9	Jacksonville M-22	WJAX	336.9
	KTBI	293.9	Miami O-23	WQAM	285.5
	KFUS	256.3	Miami Beach O-23	WMBF	384.4
	KFUU	220.4		WIOD	247.8
	KFWM	325.9	Pensacola L-19	WCOA	222.1
Oxnard J-3-d	KGO	361.2	St. Petersburg O-21	WHBN	237.9
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San Bernardino J-4	KTAB	302.8	Tampa N-22-b	WDAE	272.6
San Diego K-4-b	KZM	239.9	Winter Park N-22-a	WDBO	239.9
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	KPPC	228.9	Atlanta K-20-a	WDBE	270.1
	KPSN	315.6		WGST	270.1
	KFBK	247.8		WSB	428.3
	KFWC	211.1	Macon K-21	WMAZ	260.7
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	WBBM	225.4	Fort Wayne F-20-b	WHBJ 234.2
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	WCRW	416.4	Kokomo F-19-g	WJAK 254.1
	WEBH	370.2	LaPorte F-19-c	WRAF 223.7
	WENR	265.3	Logansport F-19-e	WIBW 220.4
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	WJBT	237.9		WJAM 267.7
	WKBA	209.7	Clarinda F-15-e	KSO 241.8
	WKBG	215.7	Council Bluffs F-15-b	KOIL 305.9
	WKBI	220.4	Davenport F-17-a	WOC 483.6
	WLIC	302.8	Decorah D-17	KGCA 280.2
	WLS	344.6	Des Moines F-16-a	WHO 526
	WLTS	258.5	Fort Dodge E-16-a	KFJY 245.8
	WMAQ	447.5	Iowa City E-17-b	KFQP 223.7
	WMBB	249.9		WSUI 483.6
	WMBI	288.3	Le Mars E-15	KWUC 251.9
	WOK	217.3	Marshalltown E-16-d	KFJB 247.8
	WPCC	258.5	Muscatine F-17-b	KTNT 333.1
	WQJ	447.5	Oskaloosa F-16-b	KFHL 239.9
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	WSBC	288.3		KMA 461.3
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			Lansing E-20-b	WKAR	285.5
LOUISIANA				WREO	285.5
New Orleans M-17	WABZ	275.1	Mt. Clemens E-21-c	WABX	245.8
	WBBS	251.9	Owosso D-20	WSMH	239.9
	WCBE	263	Petoskey C-20	WBBP	237.9
	WJBO	267.7	Pontiac E-21-d	WJR	516.9
	WJBW	340.7	Port Huron E-21-b	WAFD	275.1
	WSMB	319	Royal Oak E-21-e	WAGM	225.4
	WWL	275.1	Ypsilanti E-21-f	WJBK	232.4
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Baltimore G-24-a	WBAL	245.8		WCCO	416.4
	WCAO	275.1	Northfield D-16	WDGY	263
	WCBM	228.9		WHDI	277.6
	WFBR	254.1	St. Cloud C-16-a	WLB	277.6
Takoma Park G-24-c	WBES	222.1	St. Paul C-16-c	WRHM	251.9
				KFMX	336.9
MASSACHUSETTS				WCAL	336.9
Boston E-27-c	WATT	243.8		WFAM	272
	WBZA	333.1	MISSISSIPPI	KFOY	251.9
	WEEI	348.6	Coldwater J-18	WREC	254.1
	WNAB	280.2	Oxford K-18	WCBH	241.8
	WNAC	430.1	MISSOURI		
Dartmouth F-27	WSSH	260.7	Cape Girardeau H-18-c	KFVS	223.7
Fall River E-27-f	WMAF	440.9	Carterville H-16-c	KFPW	258.5
	WSAR	254.1	Columbia G-16-b	KFRU	499.7
Medford Hillside E-27-a	WTAB	265.3	Independence G-16-c	KLDS	440.9
New Bedford E-27-g	WARC	260.7	Jefferson City H-16-a	WOS	440.9
	WIBH	209.7	Joplin I-16	KGBW	282.8
Osterville F-28	WNBH	247.8	Kansas City G-15-b	KMJP	440.9
Springfield E-26-b	WJBX	280		KWKC	236.1
Taunton E-27-e	WBZ	331.1		WDAF	365.6
Webster E-27-d	WAIT	228.9		WHB	365.6
Worcester E-27-b	WKBE	270.1	Kirksville F-16-c	WOQ	277.6
	WTAG	545.1	Moberly G-16-a	KFKZ	225.4
MICHIGAN			St. Joseph G-15	KFFP	241.8
Bay City D-21	WSKC	260.7	St. Louis H-18-a	KGBX	347.8
Berrien Springs E-19	WEMC	285.5		KFQA	280.2
Detroit E-21-g	WCX	516.9		KFUO	545.1
	WGHP	270.1		KFVE	239.9
	WMBC	256.3		KFWF	214.2
Escanaba C-19	WWJ	352.7		KMOX	280.2
Ferndale E-21	WRAK	256.3		KSD	545.1
Flint E-21-a	WJAF	400		WEW	360
	WFDF	234.2		WIL	272.6
				WMAY	247.8
				WSBF	272.6

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MONTANA						
Havre A-8		KFBB	275.1	WPDQ	205.4	
Missoula B-6		KUOM	243.8	WSVS	218.8	
Shelby A-7		KGBY	202.6	WCAD	263	
NEBRASKA				WMAC	275.1	
Clay Center G-14		KMMJ	228.9	Freeport F-26-i	WGBB	243.8
David City F-14-a		KFOR	225.4	Cazenovia E-25-b	WIBI	218.8
Hastings F-13		KFKX	288.3	Flushing F-26-g	WEAI	254.1
Lincoln F-14-b		KFAB	340.7	Ithaca E-24-d	WMRJ	227.1
Norfolk E-14-c		WFAV	275.1	Jamaica F-26-f	WOCL	275.1
Oak G-14		WJAG	379.5	Jamestown E-23-b	WDBZ	232.4
Omaha F-15-a		KFEQ	267.7	Kingston E-26-c	WMAK	265.3
		KFOX	247.8	Lockport E-24-a	WBNY	322.4
		KOCH	258.5	New York City F-26	WEAF	491.5
		WAAW	384.4		WEBJ	272.6
		WNAL	258.5		WFBB	272.6
		WOAW	526		WGBS	315.6
University Place F-15		WCAJ	254.1		WHAP	431
Wayne E-14		KGCH	450		WHN	361.2
York F-13		KGBZ	333.1		WJY	405.2
NEW HAMPSHIRE					WJZ	454.3
Chesham E-26		WSAU	228.9		WLWL	288.3
Laconia D-27		WKAV	223.7		WMCA	340.7
					WMSG	302.8
NEW JERSEY					WNYC	526
Atlantic City G-25		WHAR	275.1		WPAP	360
		WPG	299.8		WQAO	360
Camden F-25-f		WCAM	236.1		WRNY	374.8
Elizabeth F-26-h		WIBS	202.6		WSDA	263
Jersey City F-26-d		WKBD	235	Peekskill F-26-a	WOKO	232.4
Lambertville F-25-e		WTAZ	260.7	Richmond Hill F-26-f	WAHG	315.6
Newark F-25-h		WBPI	263		WBOQ	236.1
		WGCP	251.9		WGMU	236.1
		WNJ	251.9		WRMU	236.1
		WOR	405.2	Rochester E-24-b	WABO	277.6
North Plainfield F-25-i		WEAM	260.7		WHAM	277.6
Paterson F-26-c		WODA	390.9		WHEC	258.5
Red Bank G-26		WJBI	218.8	Rossville F-26	WBBL	416.4
Trenton F-25		WOAX	239.9	Schenectady E-25-c	WGJ	379.5
				Syracuse E-24-c	WFBL	251.9
NEW MEXICO				Troy E-21-a	WHAZ	379.5
Albuquerque J-9		KFLR	254.1	Utica E-25-a	WIBX	234.2
		KFVY	249.9	Woodhaven F-26	WJBV	469.9
State College K-9		KOB	348.6	Woodside F-26	WWRL	258.5
NEW YORK						
Bay Shore F-26-h		WRST	215.7	NORTH CAROLINA		
Brooklyn F-26-f		WBBC	249.9	Asheville J-21	WABC	254.1
		WBRS	394	Charlotte J-22	WBT	275.1
		WFRL	205.4	Greensboro I-22	WNRC	223.7
Buffalo E-24-a		WEBR	243.8	Raleigh I-23	WRCO	251.9
		WGR	319			
				NORTH DAKOTA		
				Bismarck B-12	KFYR	247.8
				Devils Lake A-13	KDLR	230.6
				Fargo B-14	WDAY	260.7
				Grand Forks A-14	WPAK	275.1
					KFJM	277.6

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OHIO			Harrisburg F-24-d.	WABB	203.9	
Akron	F-22-b	WADC	258.5	WBAK	275.1	
Bellefontaine	G-21-a	WHBD	222.1	WHBG	230.6	
Canton	F-22-d	WHBC	254.1	WPRC	215.7	
Cincinnati	G-20-e	WAAD	258.5	Haverford G-25-b	WABQ	260.7
		WKRC	325.9	Jeannette G-23	WGM	372
		WKRC	422.3	Johnstown F-23-d	WHBP	256.3
		WLW	422.3	Lancaster G-25-a	WGAL	247.8
		WSAI	325.9		WKJC	258.5
Cleveland	F-22-a	WDBK	227.1	Lewisburg F-24-b	WJBU	211.1
		WEAR	389.4	Oil City F-23-a	WHBA	249.9
		WHK	272.6	Parkesburg G-25-e	WQAA	220.4
		WTAM	389.4	Philadelphia G-25-d	WABY	241.8
Columbus	G-21-b	WAIU	293.9		WCAU	277.6
		WEAO	293.9		WFI	394.5
		WMAN	277.6		WHBW	215.7
Dayton	G-21-e	WSMK	275.1		WIAD	249.9
Hamilton	G-20-d	WRK	270.1		WIP	508.2
Pomeroy	G-22-b	WSRO	251.9		WLIT	394.5
Springfield	G-21-c	WSAZ	243.8		WNAT	249.9
Steubenville	F-22	WCSO	247.8		WOO	508.2
Toledo	F-21-a	WIBR	245.8		WRAX	267.7
Wooster	F-22-c	WABR	263	Pittsburgh F-23-c	KDKA	309.1
Yellow Springs	G-21-d	WTAL	251.9		KQV	275.1
		WABW	206.8		WCAC	461.3
		WRAV	263		WJAS	275.1
				Reading F-25-d	WRAW	237.9
OKLAHOMA				Scranton F-25-a	WGBI	239.9
Bristow	I-14-a	KVOO	374.8		WQAN	249.9
Chickasha	J-14-b	KOCW	251.9	State College F-24-a	WPSC	260.7
Norman	J-14-a	WNAD	254.1	Wilkes-Barre F-25-b	WBAX	256.3
Oklahoma City	I-14-b	KFJF	260.7		WBRE	230.6
		KFXR	214.2	PHILIPPINES		
		KGCB	331	Baguio	KZUY	360
Tulsa	I-15	WKY	275.1	Manila	KZIB	249.9
		WLAL	249.9		KZKZ	270.1
					KZRQ	222
OREGON						
Astoria	C-1-a	KFJI	245.8	PORTO RICO		
Corvallis	D-1	KOAC	280.2	San Juan	WKAQ	340.7
Portland	C-1-b	KFEC	247.8			
		KFIF	247.8	RHODE ISLAND		
		KFJR	263	Cranston F-27-a	WDWF	440.9
		KFWV	212.6	Pawtucket E-27	WFCI	229
		KGW	491.5	Providence E-27-h	WCBR	209.7
		KOIN	319		WCBS	242
		KTBR	263		WCWS	209.7
					WEAN	367
PENNSYLVANIA					WJAR	485.1
Allentown	F-25-c	WCBA	254.1		WLSI	440.9
		WSAN	228.9		WRAH	235
Altoona	F-24-c	WFBG	277.6	SOUTH CAROLINA		
Elkins Park	G-25-c	WIBG	222.1	Charleston K-23	WBBY	267.7
Grove City	F-23-b	WSAJ	228.9			

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SOUTH DAKOTA		VERMONT	
Brookings D-14	KFDY	305.9	Burlington D-26-a
Rapid City D-11	WCAT	239.9	Springfield D-26-b
TENNESSEE		VIRGINIA	
Knoxville I-20	WDOD	256.3	Arlington G-24-d
Memphis J-18-a	WFBC	249.9	Norfolk I-24
Lawrenceburg J-19	WNOX	267.7	Richmond H-24
Nashville I-19	WOAN	282.8	Roanoke H-23
Tullahoma J-20	WGBC	277.6	
TEXAS		WASHINGTON	
Amarillo J-12	WDAG	263	Everett A-2
Austin L-14-b	WQAC	234.2	Lacey B-2-b
Beaumont M-16	KUT	230.6	North Bend B-2-c
Beeville M-14-b	KFDM	315.6	Olympia B-1-b
Brownsville O-14-b	KFRB	247.8	Pullman B-4
College Station M-13	KWWG	277.6	Seattle B-2-a
Dallas L-15-a	WTAW	270.1	
Dublin K-14	WFAA	475.9	
El Paso L-10	WRR	245.8	
Fort Worth L-14-a	KFPL	251.9	
Galveston M-15-b	KFXH	241.8	
Greenville K-15	WDAH	267.7	
Houston M-15-a	KFJZ	254.1	
San Antonio M-14-a	KFQB	263	
San Benito O-14-a	WBAP	475.9	
Texarkana K-16	KFLX	239.9	
Waco L-15-b	KFUL	258.5	
UTAH		WISCONSIN	
Logan F-7-a	KFPM	241.8	Beloit E-18-b
Ogden F-7-b	KFVI	239.9	Camp Lake E-19-b
Salt Lake City F-7-c	KFYJ	237.9	Eau Claire D-17
	KPRC	296.9	Fond du Lac D-18-d
	KTUE	265	Kenosha E-19
	KGCI	239.9	La Crosse E-17
	KGCM	263	Madison E-18-a
	WCAR	263	
	WOAI	394.5	
	KFLU	236.1	Marshfield D-18-a
	KFYO	209.7	Milwaukee E-19-a
	WJAD	352.7	
WYOMING		UNITED STATES	
	KFXD	205.4	Laramie F-10
	KFUR	223.7	
	KDYL	245.8	
	KFOO	236.1	
	KFUT	260.7	
	KSL	299.8	Portable
			WEBL
			225.4

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CANADA				
Brantford, Ont.	CFGC	296.9	Toronto, Ont.	CFCA 356.9
Burketon Jct., Ont.	CKCW	329.5		CHIC 356.9
Burnaby, B. C.	CFVC	410.7		CHNC 356.9
Calgary, Alta.	CFAC	434.5		CJSC 356.9
	CFCN	434.5		CKCL 356.9
	CNRC	434.5		CKNC 356.9
Charlottetown, P. E. I.	CFCY	312.3	Vancouver, B. C.	CNRT 356.9
Edmonton, Alta.	CFCK	516.9		CFCQ 410.7
	CHCY	516.9		CFDC 410.7
	CJCA	516.9		CKCD 410.7
	CNRE	516.9		CKFC 410.7
Halifax, N. S.	CHNS	322.4	Victoria, B. C.	CNRV 291.1
Hamilton, Ont.	CHCS	340.7	Winnipeg, Man.	CFCT 329.5
	CKOC	340.7		CKY 384.4
Huntsville, Ont.	CHCO	247.8		CNRW 384.4
Iroquois Falls, Ont.	CFCH	499.7	CUBA	
Kamloops, B. C.	CFJC	267.7	Cienfuegos	6BY 260
King, Ont.	CJCQ	291.1	Habana	PWX 399.8
Kingston, Ont.	CFMC	267.7		2BB 255
	CFRC	267.7		2CX 319
Kitchener, Ont.	CJCF	247.8		2EP 355
Lethbridge, Alta.	CJOC	267.7		2LR 235
London, Ont.	CJGC	329.5		2MG 280.2
Moncton, N. B.	CNRA	322.4		2OL 299.8
Montreal, Que.	CFCF	410.7		2RK 310
	CHYC	410.7		2TW 230.6
	CKAC	410.7		2UF 265
	CNRM	410.7	Santa Clara	6JK 275.1
Moose Jaw, Sask.	CJRM	296.9		6KW 340.7
Ottawa, Ont.	CHXC	434.5	Santiago	8BY 249.9
	CKCO	434.5		
	CNRO	434.5	MEXICO	
Prescott, Ont.	CFLC	296.9	Chihuahua	CZF 325.9
Preston, Ont.	CKPC	247.8	Guadalajara	FAM. 491.5
Quebec, Que.	CHRC	340.7	Mazatlan	CYR 475.9
	CKVC	340.7	Mexico City	CYA 299.8
Regina, Sask.	CHWC	312.3		CYB 275.1
	CKCK	312.3		CYH 374.8
	CNRR	312.3		CYL 399.8
Saskatoon, Sask.	CFQC	329.5		CYO 425
	CHUC	329.5		CYX 325.9
	CJWC	329.5	Monterey	CZE 350
	CNRS	329.5	Oaxaca	CYM 275.1
Scarboro, Ont.	CJYC	291.1	Puebla	CYF 265
Sea Island, B. C.	CJOR	291.1	Tampico	CYU 312.3
Summerside, P. E. I.	CHLC	267.7	Yucatan	CYQ 322.4
				CYY 548

WHEN HE SPEAKS MILLIONS LISTEN

(Continued from Page 5)

in to WEAF to see what the inside of a radio broadcasting station looked like. They were trying out men for announcers, and the man in charge mistook me for an applicant. He asked me to speak into the microphone, and I, regarding it as a good joke, accepted his invitation.

"I was somewhat surprised and startled when a few minutes later I was informed that I was 'taken on.' By profession I am a musician and the summer is a dull time, so I accepted. That was in 1923; I've been at it ever since."

A Bit of History

When McNamee was growing, his family little thought that he would ever busy himself with anything besides music and singing. As a child he had a beautiful soprano voice, and after he lost that, he developed a fine baritone. He has sung on many concert stages, and in many church choirs.

Many people try to escape from business during their free hours. McNamee never tries to get away from the radio. His attractive apartment in the upper Riverside Drive section of New York City is chock full of radio sets. I counted about eight, but I am not sure this is all because McNamee has a way of sticking away extra sets under chairs and other convenient places.

Since McNamee became a radio announcer, his wife has been his "severest critic." She listens in whenever he is announcing, and she thinks that he is pretty good. Her only regret is that he does not speak enough about himself.

"When anyone comes to ask him about what he is doing, I always



The World Series games—



—and famous Russian violinists

manage to stay around. Otherwise Graham would forget to say the most important things," she smiled. And Graham smiled too.

And from then on the interview went along something like this:

"Do you think that there should be more women announcers?"

"I do not believe that their voices are well suited to the work," said McNamee.

"But, Graham, can't you remember the women you thought were so good when you were reporting the Democratic convention?" reminded his wife.

And then Graham had to explain about the women announcers and why he thought that they were good, and yet why he did not think that there is much future for women in the announcing field.

A Modest Celebrity

"I guess I was pretty much in luck all the way through with the radio," McNamee continued. "In six months I became a regular announcer, and then the big Greb-Wilson middle-weight championship fight came along. There didn't seem to be anyone to cover it, so they sent me."

Mrs. McNamee smiled; she is accustomed to her husband's modesty.

"I went and visited the boxers at their training camps and wrote stories on them which I read over the air on the nights preceding the bout. Things went along pretty well on the big night, and the reporting of the fight just seemed to get me started on the sporting stuff.

"When the world series came along in 1923 someone else did the first three games and then I was asked to finish up the series. Last year's and this year's series I just fell into by a sort of inheritance."

But neither Graham McNamee nor his wife tells how great a national hero he was during the last series. Along with Walter Johnson and the victorious Pirate team, his name was being praised from coast to coast. It has been conservatively estimated that over two and a half million persons listened to his reports of the games.

"But even the big games weren't as exciting as the trip I took in the Los Angeles," McNamee continued. "I went up with a party of civilians, I believe the first who ever made such a long trip in an army plane. We cruised all around the East, and the big ship rode as smoothly at 60 miles an hour as though it weren't moving at all. I felt just the same when I was riding in it as I do now in this room. You could go over to a desk and write a

letter and not feel any vibration. I thought that it was the safest thing in the world, but since the Shenandoah I've changed my mind a bit. It was a wonderful experience though. I spent most of my time telling the rest of the world how it felt to be up in an airship.

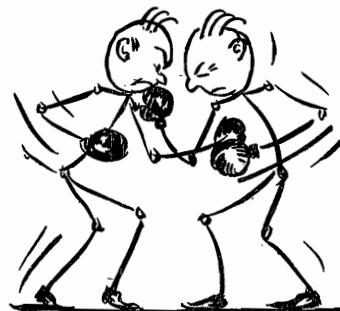
Radio's Purpose

"The real function of the radio, as I see it, is to entertain. As time goes on, radio programs are becoming better and better. In the future, they will be mostly musical and instructive.

"In some stations the announcers have the final say as to the program, but at WEAF all we can do is to make suggestions, and then the group of men whose work is only to arrange programs does the rest.



—and White House political speeches.



—and big, championship bouts.
Graham McNamee is broadcaster of them all?



From coast to coast the country puts its hand to its ear—or, to be more exact, its headphones to its ear, or its ear to its loud speaker—when "Mac" talks to "Mike."

"The men have to make a careful study of what people want before they go ahead and arrange the programs. The letters that radio fans write are carefully read, and the desires of the majority are satisfied. Of course, it is an impossibility to try to please everyone, but we even try to do that."

One of the interesting facts to which McNamee called attention was the way in which the personality of the announcer "gets across" over the microphone. People become interested in the announcers and they are not stingy about sending him letters.

"I had over 25,000 personal letters during the last few months," McNamee said. "And many fine presents; meerschaum pipes and pigskin billfolds and flowers and all. The radio audiences are really very nice to me."

All of this may make the reader feel that being an announcer is a very pleasant job. It is, according to McNamee, but it is not an easy one.

"In the good old days," he said, referring to two years back, "radio announcing was not what it is today, and it was pretty easy work. But now everything has to be just so. The announcer can not afford to make mistakes. He can't be off the air for a moment. If he is, the question is not

'How did it happen?' but 'Why did it happen?' And the announcer who wants to hold down his job has to answer it. Listeners in will not stand for mistakes.

"This necessity for absolute accuracy is quite wearing on the announcers. Before, it was not difficult to stay on the air for hours at a time. We could sit by the microphone and talk into it almost endlessly. Now, our hours are generally from 1:30 to 11 P. M., with plenty of time off in between. Of course, we are always around the studio, but we could not possibly be on the air all the time. We could not come up to the standards which are set for announcing."

This article is reprinted by special arrangement from Radio Merchandising, The Magazine of the Radio Trade.

* * *

A Hopeless Case

"So your husband has taken up Radio as a fad?"

"No, as a frenzy."—*Boston Transcript*

* * *

My Set

"My radio ain't no super-het,
But there's darn few stations
The thing won't get."—*Radio Doings*.

WHAT DO YOU MEAN— FREQUENCY?

(Continued from Page 3)

quency of say 700 kilocycles instead of having a wave length of 428.3 meters.

By means of condensers in our instruments we are able to tune a radio set to catch any particular frequency. As the dials are turned the set is tuned to a higher or a lower frequency and stations in the different classes are brought in. The older type of condenser was an exact semi-circle. The result was to bunch the stations at certain places on the dial. The new condensers are known as the straight line frequency type (s. l. f.) and are so designed as to spread the ten-kilcycle classes evenly around the dial. Roughly there are 1,000 kilocycles between the highest and lowest frequencies of broadcasting stations. A dial with 100 divisions will therefore bring in a different class on each degree mark on the dial. The numbers on a dial usually read from left to right so that 0 on the dial tunes in the station with the lowest wave length (and the highest frequency) while 100 on the dial tunes the set for the highest wave length (and the lowest frequency).

RADEX takes advantage of this peculiar relation between dial numbers and wave lengths or frequencies and provides an "Index by Wave Lengths" in which the stations are classified by their ten-kilcycle separations. Merely entering the dial readings for any set shows exactly where to set the dials for those stations that have never before been received.

RADEX in short converts wave lengths into dial numbers and dial numbers into wave lengths thus enabling the user to set his dials exactly for any station he desires to hear and,

conversely, to identify the stations he hears without waiting for the announcement.

* * *

A Gold Fish Aerial

A subscriber to the Radio News writes the editor of that magazine that, in an attempt to eliminate static, she ran a short wire from the set into a bowl of gold fish and that "programs came through fine." Watson, what do you make of this?

* * *

Is Chaos Coming ?

The air if not the ether has been filled with rumors and forebodings of coming trouble. Many pessimists believed that with the failure of Congress to enact a radio law, there would be a great shifting by broadcasting stations from one wave to another. This has so far failed to materialize and probably will not come to pass. In the first place, the association of broadcasters is urging its members to keep to their own wave and the broadcast listeners association is threatening a strike against offending stations. Any such move by broadcasters would be followed immediately by a falling-off in the sale of radio apparatus and this alone will serve to keep stations in their places. Firms controlling the sale of broadcasting equipment are in position to use a whip on new stations.

* * *

Our Next Issue

The November Radio Index will contain another A B C article on Radio written so that the person who doesn't know a B plus from a filament voltage, can readily understand it. There will also be an article on Loud Speakers telling you just what you want to know—likewise written in laymen's language.

**DEPARTMENT OF COMMERCE
BUREAU OF NAVIGATION**

al/WCR

9.00 P.M.

8

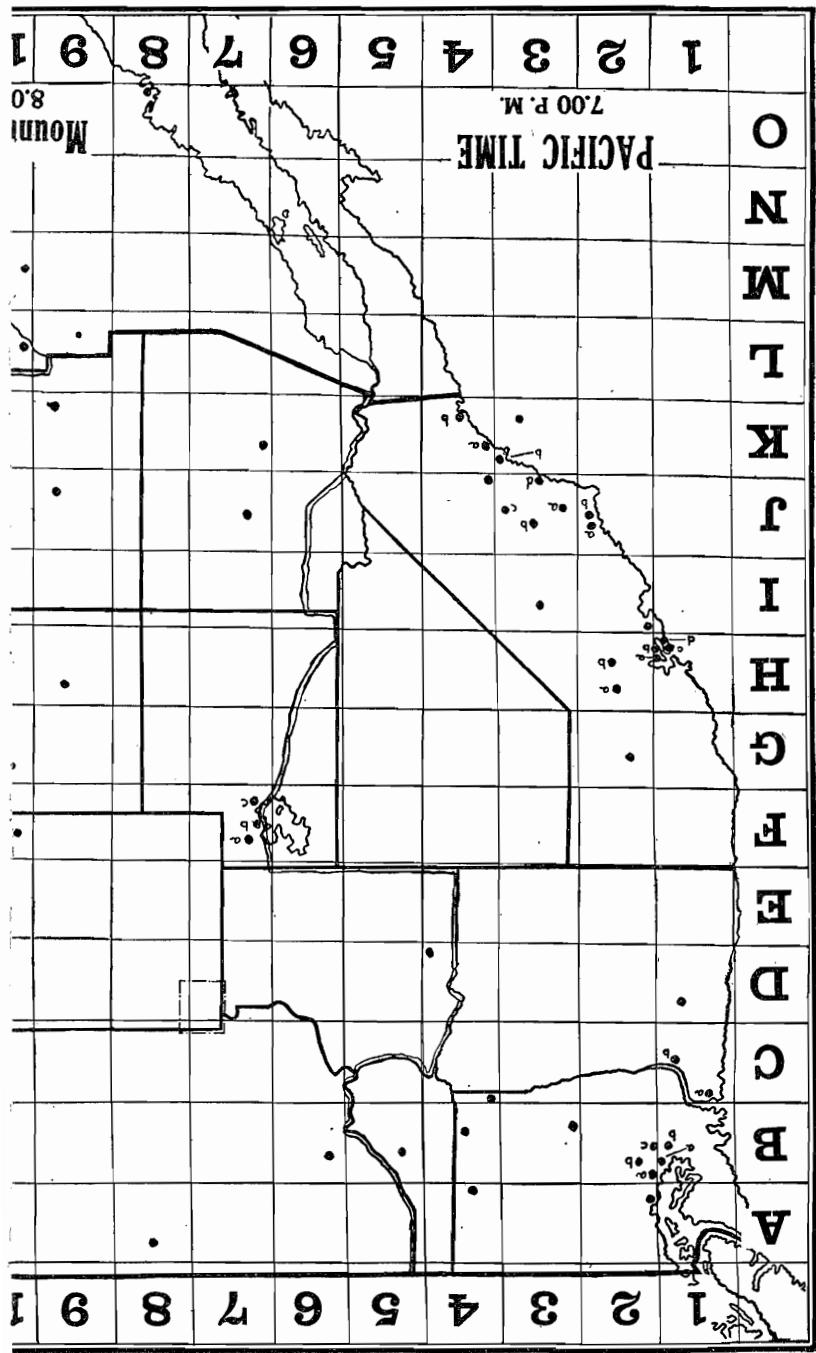
CENTRAL TIME

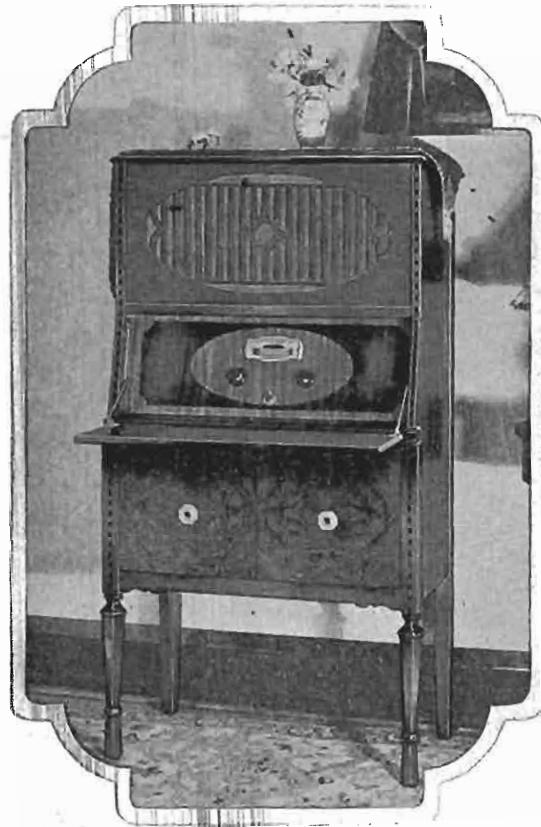
9 P.M.

AIR-LINE DISTANCES IN STATE MILES

Des Moines, Iowa

9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
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*Beauty
of
Design
and
Perfect
Reception
are
Combined
in this
Marvelous
Model 36*

This secretary-type console cabinet of burl walnut with inlays on front edge is a beautiful piece of furniture. It has ample space for batteries or power units. Built in cone speaker 24" wide gives wonderful deep, low tone. Easy to tune—TWO-IN-ONE control operates all three condensers from one dial. Three-way switch, "Off" - "Soft" - "Loud," gives perfect volume control. Price \$210.00.

See and hear this and other Workrite models listing at \$80.00 and \$145.00 at a franchised Workrite dealer or write us for descriptive literature.

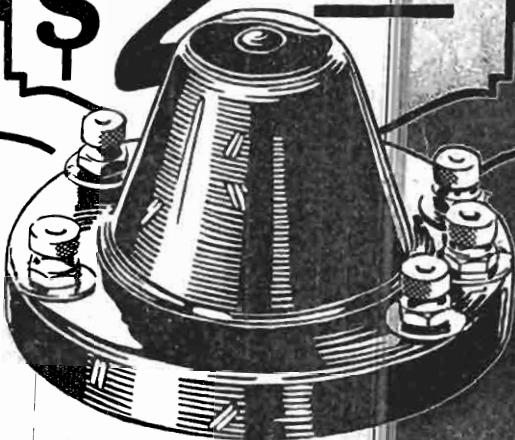
THE WORKRITE MANUFACTURING COMPANY
1833 East 30th Street

Cleveland, Ohio

A New Convenience for Radio Users

\$2.00

This



shuts off
or turns
on

This new device makes the A Battery switch on the receiving set automatically turn on and off, either or both the Trickle Charger and B Eliminator as required.

Model 13, list price \$2.00, operates with 80 per cent of the existing receiving sets. However, for sets using Type 199 Tubes, Model 14, list price \$2.50 is required.

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B
ELIMINATOR

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Reliable Automatic
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