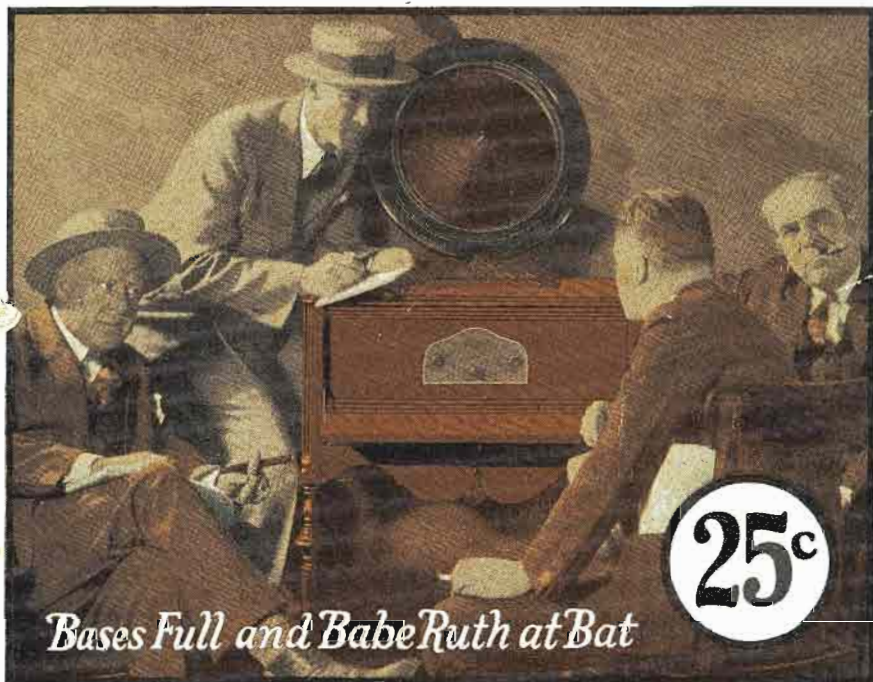


WITH BOTH OLD AND NEW ALLOCATIONS

RADIO INDEX

"THE TUNING BOOK"



Bases Full and Babe Ruth at Bat

RADEX shows the frequency 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.

"What's on the Air Tonight?"

FRED C. DIETERLE

→ **RADIOS** ←

Accessories & Service

103 BROADWAY

MICKSVILLE N. Y.

This Issue of **RADEX** Contains Both

The New Allocation of Wave Lengths

EFFECTIVE NOVEMBER 10, 1928

and the Present Official Lists

CORRECTED TO SEPTEMBER 15, 1928

FIFTH YEAR

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NUMBER 24

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*One Dollar the Year
Six Issues*

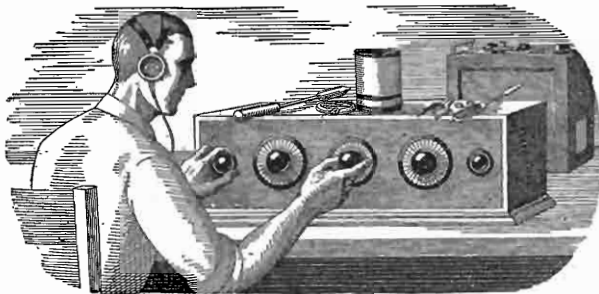
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If all the Radio sets I've "fooled" with in my time were piled on top of each other, they'd reach about halfway to Mars. The trouble with me was that I thought I knew so much about Radio that I really didn't know the first thing. I thought Radio was a plaything—that was all I could see in it for me.

I Thought Radio Was a Plaything

But Now My Eyes Are Opened, and I'm Making Over \$100 a Week!

\$50 a week! Man alive, just one year ago a salary that big would have been the height of my ambition.

Twelve months ago I was skimming along just barely making both ends meet. It was the same old story—a little job, a salary just as small as the job.

If you'd told me a year ago that in twelve months time I would be making \$100 and more every week in the Radio business—whew! I know I'd have thought you were crazy.

I was hard up a year ago because I was kidding myself, that's all—not because I had to be.

When broadcasting first became the rage, I first began my dabbling with Radio. I was "nuts," like many thousands of other fellows.

I never seemed to get very far with it, though. So, up to a year ago, I was just a dabbler—I thought Radio was a plaything. I never realized what an enormous, fast-growing industry Radio had come to be—employing thousands and thousands of trained men. I usually stayed home in the evenings after work, because I didn't make enough money to go out very much.

And as for the idea that a splendid Radio job might be mine, if I made a little effort to prepare for it—such an idea never entered my mind. When a friend suggested it to me one year ago I laughed at him.

"You're kidding me," I said.

"I'm not," he replied. "Take a look at this ad."

He pointed to a page ad in a magazine. It told of many big opportunities for trained men to succeed in the great new Radio field. With the advertisement was a coupon. I sent the coupon in, and in a few days received a handsome 64-page book, telling about the opportunities in the Radio field and how a man can prepare quickly and easily at home to take advantage of these opportunities. Well, it was a revelation to me.

What's happened in the twelve months since that day, seems almost like a dream to me now. For ten of those twelve months, I've had a Radio business of my own. At first, of course, I started it as a little proposition on the side, under the guidance of the National Radio Institute, the outfit that gave me my Radio training. It wasn't long before I was getting so much to do that I quit my measly little clerical job, and devoted my full time to my Radio business.

Since that time I've gone right on up, always under the watchful guidance of my friends at the National Radio Institute. They would have given me just as much help, too, if I had wanted to follow some other line of Radio besides building my own retail business—such as broadcasting, manufacturing, experimenting, sea operating, or any one of the score of lines they prepare

you for. And to think that until that day I sent for their eye-opening book, I'd been wailing, "I never had a chance."

Now I'm making, as I told you before, over \$100 a week. And I know the future holds even more, for Radio is one of the most progressive, fastest-growing businesses in the world today. And it's work that I like—work a man can get interested in.

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

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

Take another tip—No matter what your plans are, no matter how much or how little you know about Radio—clip the coupon below and look their free book over. It is filled with interesting facts, figures, and photos, and the information it will give you is worth a few minutes of anybody's time. You will place yourself under no obligation—the book is free, and is gladly sent to anyone who wants to know about Radio. Just address J. E. Smith, President, National Radio Institute, Dept. 22-Q2, Washington, D. C.

J. E. SMITH, President,
National Radio Institute, Dept. 22-Q2,
Washington, D. C.

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

Name.....
Address.....
Town.....
State.....

WHAT'S ON THE AIR TONIGHT?

A Weekly Calendar

Leading Features of the Network Programs

Time is given by Eastern Standard. For Central Time, subtract one hour, for Mountain Time, two hours and for Pacific Time, three hours.

Station lists beginning with WFAF and WJZ are the National Broadcasting Co. Inc., while those beginning with WABC and WOR are the Columbia Broadcasting System.

Sunday

1:30-2:00 Peerless Reproducers

WFAF	WLIT	WWJ	WOW	WTMJ
WEEL	WRC	WSAI	WDAF	WCCO
WTIC	WGY	WEBH	KVOO	WHAS
WJAR	WGR	KSD	WFAA	WSM
WTAG	WCAE	WHO	KPRC	WBT
WCSH	WTAM			

2:00-3:00 The Roxy Stroll

WJZ	WBZ	WBZA	KYW	WRC
KDKA	WJR	WBEC		

2:00-3:00 Summer Radio Church

WFAF	WCSH	WCAE	WSAI	KSD
WOC	WHO	WOW	WDAF	WFAA
WHAS	KOA	WJAR		

3:00-4:00 Symphonic Hour

WABC	WMAK	WAIU	WOWO	WSPD
WNAC	WCAO	WKRC	KMOX	WMAF
WEAN	WJAS	WGHP	KMBC	WICC
WFBL	WADC	WMAQ	KOIL	WHK

3:00-4:00 Sixty Musical Miniatures

WFAF	WJAR	WCAE	WCSH	WRC
WGR	WSAI	WTMJ	KSD	WOC
WHO	WDAF	WFAA	KPRC	WOAI
WHAS	WSB	WBT	KOA	WRHM

4:00-4:30 Genia Zielinska

WFAF	WRC	KSD	WHAS	KOA
------	-----	-----	------	-----

4:00-5:00 Dr. Sockman's Question Hour

WJZ	WBZ	WBZA	WHAM	KDKA
WLW	KYW	KWK		

4:00-5:00 Cathedral Hour

WABC	WMAK	WAIU	KMOX	WMAF
WNAC	WCAO	WKRC	KMBC	WICC
WEAN	WJAS	WGHP	KOIL	WHK
WFBL	WADC	WOWO	WSPD	

4:30-5:30 National String Orchestra

WFAF	WRC	WSAI	WHAS	KOA
------	-----	------	------	-----

5:00-6:00 Twilight Reveries

WJZ	WHAM	KDKA	WLW	KYW
WJR	WREN			

5:30-6:00 The Ballad Singers

WFAF	WRC	WGY	WCAE	WSAI
WHAS	KOA			

6:00-7:00 The Stetson Parade

WFAF	WTIC	WJAR	WTAG	WCSH
WFI	WRC	WGY	WGR	WCAE
WTAM	WWJ	WSAI	WEBH	WEEI
WHO	KSD			

6:30-7:00 Whittall Anglo-Persians

WJZ	WBZ	WBZA	WBAL	WHAM
KDKA	WLW	WJR	KYW	KWK
WREN	KOA	WCCO	WTMJ	

7:00-7:30 Famous Songs and Those Who Made Them

WFAF	WEEI	WTIC	WJAR	WTAG
WCSH	WRC	WGY	WGR	

7:30-9:00 Major Bowes' Family

WFAF	WTIC	WRC	WJAR	WGY
WCAE	WWJ	KSD	WHO	WOW
WHAS	WSM	WMC	WSB	KOA
WTAM				

8:15-9:15 Colliers Radio Hour

WJZ	WBZ	WBZA	WBAL	WHAM
KDKA	WLW	WJR	KYW	KWK
WREN	KOA	WCCO		

9:00-10:00 Come to the Fair

WABC	WMAK	WAIU	KMOX	WMAF
WNAC	WCAO	WKRC	KMBC	WICC
WEAN	WJAS	WGHP	KOIL	WHK
WFBL	WADC	WOWO	WSPD	

9:00-9:15 "Our Government" by David Lawrence

WFAF	WTIC	WJAR	WFAA	WMC
WSB	WTAG	WCSH	WRC	WGY
WGR	WCAE	WSAI	KSD	WOC
WHO	WOW	KVOO	WHAS	WSM

9:15-9:45 Atwater Kent Radio Hour

WFAF	WEEI	WRC	WGX	WGR
WCAE	WWJ	WSAI	WGN	KSD
WCCO	WOC			

9:30-10:00 Majestic's Two Black Crows

WABC	WMAK	WAIU	KMOX	WMAF
WNAC	WCAO	WKRC	KMBC	WICC
WEAN	WJAS	WGHP	KOIL	WHK
WFBL	WADC	WOWO	WSPD	

9:45-10:15 Biblical Drama

WFAF	KSD	WHO	WOW	WFAA
WEI	WRC	WGY	WWJ	WSAI
WCCO	WOC	KVOO	WHAS	WEEI

10:00-11:00 United Military Band

WABC	WMAK	WAIU	KMOX	WMAF
WNAC	WCAO	WKRC	KMBC	WICC
WEAN	WJAS	WGHP	KOIL	WHK
WFBL	WADC	WOWO	WSPD	

10:15-10:45 Lew White Organ Recital

WFAF	KSD	WHO	WSB	WOW
WDAF	WFAA			

10:45-11:15 South Sea Islanders

WFAF	KSD	WHO	WSB	WFAA
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Monday

7:30-9:00 Roxy and his Gang
 WJZ WBZ WBZA WHAM KDKA
 KYW KWK WJR WSM WSB
 WEBC

8:00-8:30 The Three Cheers
 WEAFF WTIC WTAG WLIT WGR
 WCAE KSD WHO WOW

8:30-9:30 A. & P. Gypsies
 WEAFF WEEI WTIC WJAR WCSH
 WLIT WGY WCAE WTAM WWJ
 WSAI WGN KSD WDAF WRC

9:00-10:00 United Opera Company
 WOR WMAK WKRC KMBC WHK
 WCAU WCAO WGHP KOIL
 WNAC WJAS WMAQ WSPD
 WEAN WADC WOWO WMAF
 WFBL WAUW KMOX WICC

9:00-9:30 Riverside Hour
 WJZ WBZ WBZA WBAL WHAM
 KDKA KYW KWK WJR WSM
 WSB WLW KVOO WBAP WHAS
 WMC WBT WCCO KOA WEBC

9:30-10:00 General Motors Family Party
 WEAFF WEEI WTIC WJAR WCSH
 WLIT WTAG WRC WGY WGR
 WCAE WTAM WWJ WSAI WGN
 WTMJ KSD WCCO WOC WOW
 WDAF KVOO WFAA KPRC WOAI
 WHAS WSM WSB WBT WJAX

9:30-10:00 Real Folks
 WJZ WBZ WBZA WBAL WHAM
 KDKA WJR WLW KYW KWK
 WREN

10:00-11:00 The Captivators
 WOR WMAK WKRC KMBC WHK
 WCAU WCAO WGHP KOIL
 WNAC WJAS WMAQ WSPD
 WEAN WADC WOWO WMAF
 WFBL WAUW KMOX WICC

10:00-11:00 Russian Gayeties
 WJZ WJR WHAM

10:05-10:30 The Cabin Door
 WEAFF WEEI WTIC WLIT WRC
 WGY WCAE WTAM WWJ WSAI
 KSD WCCO WOC WHO WOW
 WBT WMC

10:30-11:00 National Grand Opera
 WEAFF WEEI WTIC WFI WGY
 WGR WCAE WWJ WTMJ KSD
 WOC WHAS KOA WMC

11:00-12:00 Slumber Music
 WJZ WRC

11:00-12:00 Park Central Orchestra
 WEAFF WMC WWJ WOW

Tuesday

6:00-6:55 Waldorf-Astoria Dinner Music
 WEAFF WEEI WTIC WRC WCAE
 WWJ

7:00-7:30 Voters' Service
 WEAFF WTIC WJAR WTAG WCSH
 WFI WRC WGY WGR WCAE
 WEBH WTMJ KSD WOC WHO
 WHAS WSM WBT WSAI WCCO
 KOA WEBC WMC

7:30-8:00 Soconyland Sketches
 WEAFF WEEI WTIC WJAR WTAG
 WCSH WGY WGR

7:30-8:00 In Memory's Garden
 WJZ WJR WBZ WBZA WLW
 KOA

8:30-9:00 Seiberling Singers
 WEAFF WEEI WTIC WJAR WTAG
 WCSH WFI WRC WGY WGR
 WCAE WTAM WWJ WSAI WEBH
 KSD WCCO WOC WHO WOW
 WDAF WFAA KPRC KVOO WOAI
 WHAS WSM WMC WSB

9:00-10:00 La Palina Hour
 WABC WFBL WADC WOWO WSPD
 WFAN WMAK WKRC KMOX WMAF
 WNAC WKRC WGHP KMBC WICC
 WEAN WJAS WMAQ KOIL WHK

9:00-9:30 Embarrassing Moments in History
 WJZ WBZ WBZA WBAL WHAM
 KDKA WJR WIW KYW KWK
 WREN

9:00-10:00 Eveready Hour
 WEAFF WEEI WJAR WFI WRC
 WGY WGR WCAE WTAM WWJ
 WSAI WGN KSD WCCO WHO
 WDAF WHAS WSM WMC WSB

9:30-10:00 Dutch Masters Minstrel
 WJZ WTMJ WBZ WBZA WBAL
 WHAM KDKA WLW KYW WREN

10:00-11:00 Works of Great Composers
 WJZ KYW

10:00-11:00 Hank Simmons' Show Boat
 WABC WFBL WADC KMBC WICC
 WFAN WMAK WGHP KOIL WHK
 WNAC WKRC WOWO WSPD
 WEAN WJAS KMOX WMAF

10:00-10:30 Clicquot Club Eskimos
 WEAFF WEEI WTIC WJAR WCSH
 WFI WRC WGY WCAE WTAM
 WWJ WSAI WGN WTMJ KSD
 WCCO WOC WMC WHO WOW
 WDAF KVOO WFAA KPRC WOAI
 WHAS WSM WSB WBT KOA

10:30-11:30 Rolfe's Palais D'Or Orchestra
 WEAFF WFI WGY WTMJ KSD
 WWJ WHO WOW WMC WOC

11:00-12:00 Slumber Music
 WJZ KYW WRC KWK

11:30-12:00 Jack Albin's Orchestra
 WEAFF KOA

Wednesday

- 6:00-6:30 Ted Bartell's Orchestra**
WJZ WJR
- 7:35-8:00 Hotel St. Regis Orchestra**
WEAF WTAG KSD WMC WFAA
KOA
- 8:00-8:30 May Singhi Breen and Peter de Rose with Saxophone**
WJZ KDKA KYW
- 8:00-8:30 Mixed Quartette**
WEAF WLIT WEEI WTIC WTAG
WRC WGR WCAE KSD WOW
- 8:30-9:00 Venetian Nights**
WEAF WEEI WTIC WJAR WTAG
WCSH WRC WGY WCAE WTAM
WWJ WSAI WLIB
- 8:30-9:00 Sylvania Foresters**
WJZ KDKA KYW WBZ WBZA
- 9:00-9:30 Long, Long Ago**
WOR WMAK WAIU WOWO WSPD
WCAU WCAO WKRO KMOX WMAF
WNAC WJAS WGHP KMBC WICC
WEAN WADC WMAQ KOIL WHK
WFBL
- 9:00-9:30 Ipana Troubadours**
WEAF WEEI WTIC WJAR WTAG
WCSH WRC WGY WGR WCAE
WTAM WWJ WSAI WLIB
- 9:00-10:00 Philco Hour**
WJZ KPRC KVOO WOW WHO
WOC WCCO WTMJ WHAM KYW
WKC WBAL WHAS WBZ WBZA
KDKA WJR WREN KOA WBT
WSB WMC WSM WOAI KYW
- 9:30-10:00 United Military Band**
WOR WMAK WAIU WOWO WSPD
WCAU WCAO WKRC KMOX WMAF
WNAC WJAS WGHP KMBC WICC
WEAN WADC WMAQ KOIL WHK
WFBL
- 9:30-10:30 Palmolive Hour**
WEAF WJAX WSM WMC WSB
WBT WEEI WRC WSAI WTIC
WGY WGN WDAF WJAR WGR
KSD KVOO WTAG WCAE WOC
WFAA WCSH WTAM WHO KPRC
WLIT WWJ WOW WOAI KOA
WTMJ WCCO WHAS
- 10:00-10:30 Kolster Radio Hour**
WOR WFBL WADC WOWO WMAF
WCAU WMAK WKRC KMOX WICC
WNAC WCAO WGHP KMBC WHK
WEAN WJAS WMAQ WSPD
- 10:30-11:00 The Buccaneers**
WOR WFBL WADC WOWO WMAF
WCAU WMAK WKRC KMOX WICC
WNAC WCAO WGHP KMBC WHK
WEAN WJAS WMAQ WSPD
- 11:00-12:00 Slumber Music**
WJZ WRC
- 11:30-12:00 Waldorf-Astoria Orchestra**
WEAF WHO WOW WSM

Thursday

- 6:00-6:55 Waldorf-Astoria Dinner Music**
WEAF WRC WCAE WWJ WEEI
- 6:00-7:00 Hotel Manger Orchestra**
WJZ WJR
- 7:00-8:00 United States Navy Band**
WJZ WRC WBZ WBZA WEBC
- 7:30-8:00 Coward Comfort Hour**
WEAF WEEI WTIC WJAR WTAG
WCSH
- 8:00-8:30 Retold Tales**
WJZ KDKA KYW KWK WJR
WBZ WBZA WHAM WEBC
- 8:00-8:30 The River Choristers**
WEAF WFI WGY WCAE KSD
WTIC WRC KOA WEEI WOW
- 8:30-9:00 Jack Albin and his Hotel Bossert Orchestra**
WJZ WBZ WBZA KDKA KYW
KWK
- 8:30-9:00 Hoover Sentinels**
WEAF WEEI WTAM WFI WRC
WGY WCAE WWJ WSAI WEBH
KSD WOC WHO WOW KVOO
WFAA WHAS WSM WMC WSB
WDAF WEBC
- 9:00-9:30 Orchestras that Differ**
WJZ WOW WEBC KOA WHAM
KDKA WJR KYW WFAA
- 9:00-9:30 The Fortune Teller**
WEAF WTIC WJAR WTAG WFI
WGY WCAE KSD
- 9:00-10:00 United Light Opera Company**
WABC WFBL WKRC KMBC WICC
WFAN WMAK WGHP WSPD KOIL
WNAC WJAS WOWO WMAF WHK
WEAN WADC KMOX
- 9:30-10:00 Maxwell House Hour**
WJZ WBZ WBZA WBAL WHAM
KDKA WLW WJR KYW KSD
WRHM WOC WHO WDAF KVOO
WBAP KPRC WHAS WSM WSB
WBT KOA WOW WEBC WJAX
- 9:30-10:00 The Major and Minor Boys**
WEAF WEEI WTIC WJAR WTAG
WFI WGY WGR WCAE
- 10:00-10:30 Melodies and Memories**
WABC WFBL WADC KMOX WMAF
WFAN WAIU WKRC KMBC WICC
WNAC WMAK WGHP WSPD WHK
WEAN WJAS WOWO
- 10:00-10:30 Michelin Hour**
WJZ WBZ WBZA WBAL WHAM
KDKA WJR KYW KWK WREN
WLW

Thursday

10:00-10:30 Halsey-Stuart Hour

WEAF	WEEI	WTIC	WJAR	WTAG
WCSH	WFI	WRC	WGY	WGR
WCAE	WWJ	WEBH	WTMJ	KSD
WRHM	WOC	WHO	WOW	KVOO
WFAA	KPRC	WOAI	WHAS	WMC
WSB	WBT	WDAF	KOA	WTAM

10:30-11:00 Thirty Minute Men

WABC	WFBL	WADC	KMOX	WMAF
WFAN	WMAK	WKRC	KMBC	WICC
WNAC	WAIU	WGHP	WSPD	WHK
WEAN	WJAS	WOWO		

10:30-11:00 Blue Danube Nights

WJZ	WBAL	WJR	KYW
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10:30-11:00 Statler's Pennsylvanians

WEAF	WFI	WGY	WGR	WWJ
KSD	WHO	WOW	WRG	

11:00-12:00 Slumber Music

WJZ	KYW	WRC	WMC
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Friday

6:00-6:55 Waldorf-Astoria Dinner Music

WEAF	WEEI	WRC	WCAE	WWJ
------	------	-----	------	-----

6:30-7:00 Gold Spot Pals

WJZ	WBZ	WBZA	WBAL	WHAM
KDKA	WJR			

7:30-8:00 Dikies Circus

WJZ	WBZ	WBZA	WBAL	KDKA
WJR	WLW	KYW	WBT	WSB
WMC	WSM	WHAS		

8:00-8:30 Milady's Musicians

WJZ	KDKA	KWK	WREN
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8:00-9:00 Cities Service Orchestra

WEAF	WEEI	WLIT	WRC	WGR
WCAE	WTAM	WWJ	WSAI	WEBH
WCCO	KSD	WOC	WOW	WDAF
KVOO	WFAA	KOA		

8:30-9:00 The Armstrong Quakers

WJZ	WBAL	WJR	KWK	WSB
WBZ	WHAM	WLW	WREN	WMC
WBZA	KDKA	KYW	WBT	WHAS
WRHM				

9:00-9:30 An Evening in Paris

WEAF	WEEI	WTIC	WRC	WGR
WCAE	WTAM	WWJ	WSAI	WEBH
WDAF	KSD	WJAR	WTAG	WCSH
WFI				

9:00-10:00 True Story Hour

WOR	WMAK	WAIU	WOWO	WSPD
WCAU	WCAO	WKRC	KMOX	WMAF
WNAC	WJAS	WGHP	KMBC	WICC
WEAN	WADC	WMAQ	KOIL	WHK
WFBL				

9:00-10:00 Wrigley Review

WJZ	WBZ	WBZA	WBAL	WHAM
KDKA	WLW	WJR	KYW	WREN
WHAS	WHAS	WSM	WMC	WSB
WBT	WRVA	WJAX	WCCO	WECB

Friday

9:30-10:00 Larry Brier's Tuneful

Troupe				
WEAF	WLIT	WRC	WCAE	KSD
WOC	WHO	WOW		

10:00-10:30 Kodak Front Porch

WOR	WFBL	WADC	WMAQ	WSPD
WCAU	WMAK	WAIU	WOWO	WMAF
WNAC	WCAO	WKRC	KMOX	WICC
WEAN	WJAS	WGHP	KMBC	WHK

10:00-10:30 Stromberg-Carlson

Sextette				
WJZ	WBZ	WBZA	WBAL	WHAM
KDKA	WJR	WLW	KYW	KWK
WREN	KOA	WBT	WSB	WSM
WHAS	WOAI	KPRC	WFAA	KVOO
WCCO	WTMJ			

10:00-11:00 Concert Bureau Hour

WEAF	WEEI	WTIC	WTAG	WCSH
WLIT	WRC	WGY	WCAE	WWJ
WSAI	WGN	WOC	WHO	WOW
WDAF	WFAA	KOA	WTMJ	WHAS
WMC	KSD			

10:30-11:00 United Salon Orchestra

WOR	WFBL	WADC	WMAQ	WSPD
WCAU	WMAK	WAIU	WOWO	WMAF
WNAC	WCAO	WKRC	KMOX	WICC
WEAN	WJAS	WGHP	KMBC	WHK

11:00-12:00 Hotel St. Regis Orchestra

WEAF	WCAE	WWJ	WHO	WOW
KOA				

11:00-12:00 Slumber Music

WJZ	WLW	WRC	WTMJ
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Saturday

3:30-4:30 RCA Demonstration Hour

WJZ	WBZ	WBZA	WHAM	KDKA
WLW	WJR	KYW	KWK	WTMJ
WCCO	WOC	WHO	WOW	WDAF
KVOO	WFAA	KPRC	WOAI	WHAS
WMC	WSB	WBT	KOA	WRC

6:00-6:55 Waldorf-Astoria Dinner Music

WEAF	WEEI	WRC	WCAE	KOA
WWJ				

7:00-7:30 Hotel St. Regis Orchestra

WJZ	WBZ	WBZA
-----	-----	------

8:15-8:30 A Week of the World's

Business				
WJZ	WBAL	WHAM	KDKA	WLW
KYW	KWK	KOA	WMS	WHAS
WFAA	WOC	WTMJ	WRC	

10:00-11:00 Lucky Strike Dance

Orchestra Hour				
WEAF	WGY	WOC	KOA	WIAX
WEEI	WGR	WHO	WTMJ	KSL
WTIC	WCAE	WOW	WCCO	KHQ
WJAR	WTAM	WDAF	WHAS	KGO
WTAG	WWJ	KVOO	WMC	KFI
WCSH	WSAI	WFAA	WSB	KGW
WFI	WGN	KPRC	WBT	KOMO
WRC	KSD	WOAI		

11:00-12:00 Slumber Music

WJZ	KYW	WRC
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11:00-12:00 Park Central Orchestra

WEAF	WFI	WHO	WOW	WMC
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RADIO PICTURES

A New Field for the Experimenter

By JOHN C. COATSWORTH

For the man who liked to build things with his hands and whose job did not contain that pleasure for him, radio in the early days was heaven-sent. He was too old to get out his boy's construction blocks and toy railroad tracks and thus provide an outlet for that instinct to build things. But with radio he could build and rebuild and still not be laughed at. And so the early days of radio saw hundreds of thousands of serious men and women tinkering with condensers, coils and wires and having the time of their lives. But soon the manufacturers began to turn out sets so much more efficient and perfect than could be built by the ordinary amateur that set-building came to be largely a thing of the past although many still prefer to build their own sets from manufactured kits.

Then came the experiments in short waves for which no sets were available and again great numbers began the fascinating work of experimenting to bring in those frequencies too high for the ordinary set. The thrill of the short waves is distance for programs carry on these waves literally around the world. In fact one of the defects of the short wave set is that it is apt to receive the sound twice—once a slight fraction of a second after the other—caused by the vibrations entering the set *after passing both ways around the world.*

And now comes an even more interesting and fascinating pastime, that of actually picking pictures out of the air. Do you remember that wonderful thrill that came back in the early twenties when you had first assembled a miscellaneous lot of wire and thingamajigs and suddenly you heard "this is Chica-

go" or "this is Denver"? Well that thrill is exceeded by watching the etching upon a slowly turning cylinder of a picture coming to you from New York or Milwaukee or St. Louis. Or the removing from the cylinder of a still blank piece of paper and immersing it in a developing fluid and watching suddenly spring therefrom a picture or sketch or what-not.

Several broadcasting stations throughout the United States are already maintaining regular schedules for broadcasting still picture impulses in addition to their ordinary programs, and others are taking up this feature every week.

Stations WMCA and WOKO, New York and Peekskill, are broadcasting this feature four times a week, station WTMJ, Milwaukee, nightly; while station KMOX is furnishing St. Louis with regular programs, and station WFI will be broadcasting for Philadelphia fans by the time you are reading this.

Several manufacturers are working on various still picture and television recorders to be merchandised in the form of kits and assembled by the fan. Soon everyone can "roll his own" pictures out of the air.

The picture-receiving mechanism will consist of three units. First there is the regular tuning unit for which the present receiving set can be utilized. The wires that now go to the loud-speaker will be disconnected and attached instead to the second unit, which is the picture-reproducing device. The third unit is the cylinder-turning device and for this any old phonograph may be used. Ultimately parts for all

(Continued on page 62)

MOVIES BY RADIO

Another Story in A. B. C.

By HOMER CALDWELL

At first the sending of voice and other sounds through the air was a marvel we could scarcely comprehend but already that is common-place. Now it is difficult to realize that vision is actually traveling the ether from one far point to another. Yet fundamentally the two feats are the same for actually, of course, neither sound nor vision is carried through the air. As RADEX has already explained in a previous article, a microphone which vibrates by sound, alternately makes and breaks an electrical circuit. This circuit sending out these vibrations into the air is caught up by a radio set tuned to their frequency and carried through a loud speaker which is practically another microphone and this is vibrated by the electrical current in sympathy with the sending instrument. These latter vibrations are caught by the human ear and we apparently hear the original voice or instrument but we are of course only hearing a reproduction of it as we do from a phonograph record.

We found in the microphone and in the radio tube a means of vibrating the ether-carried current by sound. Scientists thereupon began to search for a means of vibrating that same current by means of light. The first result was the sending of "still" pictures or sketches by means of radio. This has already been described in a previous issue of RADEX. Pictures are now being regularly broadcast as shown in another article in this issue and this is quite a simple operation. The sending of moving pictures, however, is quite another tale and is fraught with the greatest difficulties. It is true that moving pictures are merely a series of

still pictures but in order to make them seem to move, they must pass before the eye with great rapidity—eighteen to the second. As they are thrown on the screen, each picture remains the fraction of a second when it flashes out and the next takes its place. The human eye possesses a "carry-over" faculty; that is it continues to see a thing for an infinitesimal period of time after it ceases. This covers the space between the two pictures and makes the picture seem to be a single unit actually in motion.

Now it is of course an impossibility to send even one picture as a whole in one instant either over the radio or over wires. Each picture must be split into tiny fragments of black and white and gray and these fragments must be reassembled again just as they are in the sending of still pictures, each of which takes several minutes to transmit. To send these pictures at a rate of eighteen complete photographs to the second, made television a seemingly impossible thing. One of the greatest difficulties was that there was no light that would vibrate with such speed but the discovery of the photo-electric cell has changed all this and already tennis-games have been broadcast in which the flight of the ball has been discerned by radio audiences at a distance.

We will try to explain in the simplest possible language just how this is done and in doing this must sacrifice something of scientific exactness. Everyone is familiar with the pocket kodak which contains a roll of film with a preparation sensitive to light. The subject is posed where the light falls upon

(Continued on page 61)

THE BROADCASTING SITUATION

By EVERETT J. DALTON

As this is written a committee of the Radio Commission is working on a re-allocation plan and it is universally hoped that through its labors there may be evolved some plan that will be at once effective, fair and just. None can deny that at present broadcasting is in a muddle. The Commission ought to adopt as its first and most fundamental principle "The rights of the radio listener are paramount." Everything possible ought to be done to protect the financial investment of the broadcaster and a station should be eliminated only when it conflicts with the primary principle enunciated above. But of what use to radio will it be to protect the investments of the broadcasters if the air is so cluttered up that listeners become disgusted and lose their interest?

But listeners, while demanding preferential treatment, ought to be willing to make reasonable concessions. Some people take violent objection to the line of introduction of sponsored programs, giving the name of the sponsor, a description of his product and an offer of literature regarding it. Unless this line is badly overdone there should be no reasonable objection to it. Programs must be paid for. In some countries the listeners are taxed for the means with which to provide the programs. Such a plan is undesirable in America. Far better the present plan of providing programs through the willingness of some advertiser to furnish them for the advertising and goodwill value. If a firm is willing to spend several hundred dollars in providing an hour's entertainment for you and me, surely it is entitled to the courtesy of some mention of itself and its product.

Some radio fans are writing to the

newspapers strenuously objecting to chain programs because six or eight cities in their range are broadcasting the same program. Many neighborhood houses show the same moving picture film and we either go to see it or we don't. The fan who likes to tune in one program and then almost immediately tune in another, cannot expect a broadcasting situation suited to his whims. He doesn't want to hear programs; all he wants is announcements. What would we think of a person who started out in the evening to see moving pictures and visited one theatre after another, stopping but a minute or two in each? And how could the movie houses provide programs suited to his peculiar ambulations? Such a use of radio is a pure fad and robs this great medium of its power to perform a real service.

It seems to us that radio will best serve its ends when every owner of a fairly good set can bring in with suitable volume and minimum static or disturbance, one or two local stations, six or eight large-city stations in his section of the country and one or two of the large national stations such as WEAJ and WJZ. There is ample room at the upper and lower ends of the dials for hundreds of local stations of small power sharing time where necessary so that every listener may have access to his local stations. This would leave the great central band for stations of greater power located in the larger cities. In our opinion, power ought to be in direct proportion to the population of the city in which the studio (not the antenna) is located. This may seem an odd basis for power allotment. Our reasons are these: the

(Continued on page 62)

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INDEX BY FREQUENCIES AND DIAL NUMBERS

550 kilocycles 545.1 meters

CYY	100	Merida, Mex.
KFDY	500	Brookings, S. D.
KFUO	1000	St. Louis, Mo.
KSD	500	St. Louis, Mo.
WDAY	250	Fargo, N. Dak.
WFAA	500	Dallas, Tex.
WMAK	750	Buffalo, N. Y.
WPTF	500	Raleigh, N. C.

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Socialist Party
S. D. State College
Concordia Theological Seminary
Pulitzer Publishing Co.
WDAY Inc.
Dallas Morning News
WMAK Bdcstg. Station, Inc.
Durham Life Insurance Co.

560 kilocycles 535.4 meters

KXA	500	Seattle, Wash.
WCAC	500	Mansfield, Conn.
WHO	2500	Des Moines, Iowa
WTIC	500	Hartford, Conn.

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American Radio Tel. Co.
Conn. Agricultural College
Bankers Life Co.
Travelers Insurance Co.

570 kilocycles 526.0 meters

KFKX	2500	Chicago, Ill.
KYW	2500	Chicago, Ill.
WNYC	500	New York City

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Westinghouse Elec. & Mfg. Co.
Westinghouse Elec. & Mfg. Co.
Dept. of Plants and Structures

580 kilocycles 516.9 meters

CFCL	500	Toronto, Ont.
CHMA	250	Edmonton, Alta.
CHNC	500	Toronto, Ont.
CJBC	500	Toronto, Ont.
CJCA	500	Edmonton, Alta.
CJSC	500	Toronto, Ont.
CKCL	500	Toronto, Ont.
CKNC	500	Toronto, Ont.
CKUA	500	Edmonton, Alta.
CNRE	500	Edmonton, Alta.
KMTR	500	Hollywood, Calif.
WFLA	750	Clearwater, Fla.
WMC	5000	Memphis, Tenn.
WSUN	750	St. Petersburg, Fla.
WTAG	250	Worcester, Mass.
WWVA	250	Wheeling, W. Va.

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Dominion Battery Co., Ltd.
Christian and Missionary Alliance
Radio Research Society
Jarvis Street Baptist Church
The Edmonton Journal
The Evening Telegram
The Dominion Battery Co.
Canadian National Carbon Co.
University of Alberta
Canadian National Railways
KMTR Radio Corporation
Chamber of Commerce
Memphis Commercial Appeal
Chamber of Commerce
Telegram Publishing Co.
West Va. Brcdstg. Corp.

590 kilocycles 508.2 meters

KLX	500	Oakland, Calif.
WEEL	500	Boston, Mass.
WOW	1000	Omaha, Nebr.

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Tribune Publishing Co.
Edison Elec. Illuminating Co.
Woodmen of the World

600 kilocycles 499.7 meters

CFCH	250	Iroquois Falls, Ont.
KTHS	1000	Hot Spring, Ark.
WBAP	5000	Fort Worth, Tex.

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Abitibi Power & Paper Co.
Arlington Hotel Co.
Carter Publications, Inc.

INDEX BY FREQUENCIES AND DIAL NUMBERS

610 kilocycles 491.5 meters

KGW 1000 Portland, Ore.
WEAF 50000 New York City

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Oregonian Publishing Co.
National Broadcasting Co., Inc.

620 kilocycles 483.6 meters

KFBU 500 Laramie, Wyo.
KFDM 500 Beaumont, Tex.
KFUM 1000 Colorado Springs, Colo.
KUSD 250 Vermillion, S. D.
WCFL 1500 Chicago, Ill.
WEMC 1000 Berrien Springs, Mich.
WJAR 500 Providence, R. I.
WTAW 500 College Station, Tex.

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Bishop N. S. Thomas
Winnipeg Petroleum Co.
W. D. Corley
University of South Dakota
Federation of Labor
Emmanuel Missionary College
The Outlet Co.
Agri. & Mech. College

630 kilocycles 475.9 meters

CFCT 500 Victoria, B. C.
CJGX 500 Yorkton, Sask.
CNRA 500 Moncton, N. B.
CYR 250 Mazatlan, Mex.
WSB 1000 Atlanta, Ga.
WSUI 500 Iowa City, Iowa

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Victoria Broadcasting Ass'n.
Winnipeg Grain Exchange
Canadian National Railways
Castulo Llamas
Atlanta Journal Co.
State University of Iowa

640 kilocycles 468.5 meters

KFI 5000 Los Angeles, Calif.
WRC 500 Washington, D. C.

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Earle C. Anthony, Inc.
Radio Corp. of America

650 kilocycles 461.3 meters

KFNF 2000 Shenandoah, Iowa
KRLD 500 Dallas, Tex.
KUOM 500 Missoula, Mont.
WBIS 500 Boston, Mass.
WCAE 500 Pittsburgh, Pa.
WNAC 500 Boston, Mass.
WRR 500 Dallas, Texas

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Henry Field Seed Co.
KRLD, Inc.
State University of Montana
The Shepard Stores
Gimbel Bros. Inc.
The Shepard Stores
City of Dallas

660 kilocycles 454.3 meters

KFRC 1000 San Francisco, Calif.
WJZ 30000 New York City

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Don Lee, Inc.
Radio Corp. of America, Inc.

670 kilocycles 447.5 meters

KFOA 1000 Seattle, Wash.
WMAQ 5000 Chicago, Ill.

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Rhodes Department Store
Chicago Daily News, Inc.

680 kilocycles 440.9 meters

KFSD 500 San Diego, Calif.
WAAW 500 Omaha, Nebr.
WCX 5000 Detroit, Mich.
WIBG 50 Elkins Park, Pa.
WJR 5000 Detroit, Mich.

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Airfan Radio Corp.
Omaha Grain Exchange
Detroit Free Press
St. Pauls P. E. Church
WJR, Inc.

690 kilocycles 434.5 meters

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

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The Calgary Herald
W. W. Grant, Ltd.
Alvertan Publishing Co., Ltd.
Radio Service & Repair Shop
Dr. G. M. Geldert
Canadian National Railways
Canadian National Railways
U. S. Navy

700 kilocycles 428.3 meters

WLW 500 Cincinnati, Ohio
WMAF 500 South Dartmouth, Mass.

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Crosley Radio Corp.
Round Hills Radio Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

710 kilocycles 422.3 meters

CYO	100	Mexico City
KPO	1000	San Francisco, Calif.
WOR	3500	Newark, N. J.
WOS	500	Jefferson City, Mo.

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M. Y. Zetina
Hale Bros. & The Chronicle
L. Bamberger & Co.
State Marketing Bureau

720 kilocycles 416.4 meters

WGN	500	Chicago, Ill.
WLIB	15000	Chicago, Ill.

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Chicago Tribune
Liberty Weekly, Inc.

730 kilocycles 410.7 meters

CFCF	1650	Montreal, Que.
CHLS	50	Vancouver, B. C.
CHYC	750	Montreal, Que.
CKAC	1200	Montreal, Que.
CKCD	50	Vancouver, B. C.
CKFC	50	Vancouver, B. C.
CKMO	50	Vancouver, B. C.
CKWX	100	Vancouver, B. C.
CNRM	1650	Montreal, Que.

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Canadian Marconi Co.
W. G. Hassell
Northern Electric Co.
La Presse Publishing Co.
Vancouver Daily Province
United Church of Canada
Sprott-Shaw Radio Co.
A. Holstead & Wm. Hanlon
Canadian National Railways

740 kilocycles 405.2 meters

WCCO	5000	Minneapolis-St. Paul
WFI	500	Philadelphia, Pa.
WLIT	500	Philadelphia, Pa.

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Washburn-Crosby Co.
Strawbridge & Clothier
Lit Brothers

750 kilocycles 399.8 meters

CYJ	2000	Mexico City
CYL	500	Mexico City
KGBU	500	Ketchikan, Alaska
KHJ	1000	Los Angeles, Calif.
PWX	500	Havana, Cuba
WEAR	1000	Cleveland, Ohio
WSBT	1000	South Bend, Ind.
WTAM	3500	Cleveland, Ohio

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R. Ascarraga
Alaska Radio & Service Co.
Don Lee, Inc.
Cuban Telephone Co.
WEAR & WTAM, Inc.
South Bend Tribune
WEAR & WTAM, Inc.

760 kilocycles 394.5 meters

KMA	1000	Shenandoah, Iowa
KOB	5000	State College, N. M.
KTW	1000	Seattle, Wash.
KWKH	3500	Shreveport, La.
KWSC	500	Pullman, Wash.
WHN	500	New York City
WPAP	500	Cliffside, N. J.
WQAO	500	Cliffside, N. J.

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May Seed & Nursery
College of Agriculture
First Presbyterian Church
W. K. Henderson
State College of Washington
George Schubel
Palisades Amusement Park
Calvary Baptist Church

770 kilocycles 389.4 meters

WAAF	500	Chicago, Ill.
WABI	100	Bangor, Me.
WBBM	5000	Chicago, Ill.
WJBT	500	Chicago, Ill.

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Drovers Journal Pub. Co.
First Universalist Church
Atlas Investment Co.
J. S. Boyd, Inc.

780 kilocycles 384.4 meters

CKY	500	Winnipeg, Man.
CNRW	500	Winnipeg, Man.
KGO	5000	Oakland, Calif.
WBOS	100	Wellesley Hills, Mass.
WMBF	500	Miami Beach, Fla.
WQAM	750	Miami, Fla.

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Manitoba Telephone System
Canadian National Railways
General Electric Co.
Babson's Statistical Org'n.
Fleetwood Hotel Corp.
Electrical Equipment Co.

790 kilocycles 379.5 meters

WCAJ	500	Lincoln, Nebr.
WGY	50000	Schenectady, N. Y.

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Nebraska Wesleyan University
General Electric Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

800 kilocycles 374.8 meters

CYH	100	Mexico City
KNRC	500	Santa Monica, Calif.
WOC	5000	Davenport, Iowa

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C. de Tarnava
Pickwick Broadcasting Corp.
Palmer School of Chiropractic

810 kilocycles 370.2 meters

KHO	1000	Spokane, Wash.
WDAF	1000	Kansas City, Mo.
WLWL	1000	New York City
WMCA	500	New York City

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Louis Wasmer, Inc.
Kansas City Star Co.
Missionary Society of St. Paul
Greeley Square Hotel Co.

820 kilocycles 365.6 meters

KMJ	50	Fresno, Calif.
WEBH	500	Chicago, Ill.
WJJD	1000	Mooseheart, Ill.

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The Fresno Bee
Edgewater Beach Hotel Co.
Loyal Order of Moose

830 kilocycles 361.2 meters

HHK	1000	Port au Prince, Haiti
KFWB	500	Los Angeles, Calif.
WSAI	5000	Cincinnati, O.

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Republic of Haiti
Warner Bros. Broadcasting Corp.
Crosley Radio Corp., Lessee

840 kilocycles 356.9 meters

CFCA	500	Toronto, Ont.
CHCT	1000	Red Deer, Alta.
CJBC	500	Toronto, Ont.
CKLC	1000	Red Deer, Alta.
CKOW	500	Toronto, Ont.
CNRT	500	Toronto, Ont.

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Star Publishing & Ptg. Co.
C. F. Tull & Ardern, Ltd.
Jarvis Street Baptist Church
Alberta Pacific Grain Co.
Nestle's Food Co.
Canadian National Railways

850 kilocycles 352.7 meters

KLZ	1000	Denver, Colo.
KYA	1000	San Francisco, Calif.
WEW	1000	St. Louis, Mo.
WWJ	1000	Detroit, Mich.

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Reynolds Radio Co., Inc.
Pacific Broadcasting Corp.
St. Louis University
The Detroit News

860 kilocycles 348.6 meters

CZE	500	Mexico City
KJR	2500	Seattle, Wash.
KVOO	1000	Tulsa, Okla.
WGBS	500	New York City
WIP	500	Philadelphia, Pa.
WOO	500	Philadelphia, Pa.
20K	100	Havana, Cuba
7SR	500	Ella, Cuba

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Department of Education
Northwest Radio Service Co.
Southwestern Sales Corp.
Gimbel Bros., Inc.
Gimbel Bros., Inc.
John Wanamaker
Merlo G. Velez
Salvador Rionda

870 kilocycles 344.6 meters

KFOD	100	Anchorage, Alaska
KWG	100	Stockton, Calif.
WCBD	5000	Zion, Ill.
WLS	5000	Chicago, Ill.

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Anchorage Radio Club
Portable Wireless Tel. Co.
Wilbur Glenn Voliva
Sears, Roebuck & Co.

880 kilocycles 340.7 meters

CHCS	10	Hamilton, Ont.
CHML	50	Hamilton, Ont.
CHRC	5	Quebec, Que.
CKCI	22.5	Quebec, Que.
CKCV	50	Quebec, Que.
CKOC	100	Hamilton, Ont.
CNRO	50	Quebec, Que.
WAPI	1000	Auburn, Ala.
WHB	500	Kansas City, Mo.
WJAX	1000	Jacksonville, Fla.
WOQ	250	Kansas City, Mo.
6 KW	100	Tuinucu, Cuba

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The Hamilton Spectator
Maple Leaf Radio Co.
E. Fontaine
LeSoleil
G. A. Vandry
Wentworth Radio Supply Co.
Canadian National Railways
Alabama Polytechnic Inst.
Sweeney Automobile School
City of Jacksonville
Unity School of Christianity
Frank H. Jones

INDEX BY FREQUENCIES AND DIAL NUMBERS

890 kilocycles 336.9 meters

CFBO	50	St. John, N. B.
CYC	50	Vera Cruz, Mex.
KNX	500	Los Angeles, Calif.
WSM	5000	Nashville, Tenn.

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C. A. Munro, Ltd.
M. A. Fernandez
Western Broadcast Co.
National Life & Accident Ins. Co.

900 kilocycles 333.1 meters

KFJM	100	Grand Forks, N. D.
KFOB	1000	Ft. Worth, Tex.
KSAC	500	Manhattan, Kans.
KSEI	250	Pocatello, Idaho
WBZ	15000	Springfield, Mass.
WBZA	500	Boston, Mass.
WHA	750	Madison, Wis.
WJAD	500	Waco, Texas
WLBL	1000	Stevens Point, Wis.

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University of North Dakota
W. B. Fishburn, Inc.
State Agricultural College
KSEI Broadcasting Assn.
Westinghouse Elec. & Mfg. Co.
Westinghouse Elec. & Mfg. Co.
University of Wisconsin
Frank P. Jackson
Wisconsin Dept. of Markets

910 kilocycles 329.6 meters

CFQC	500	Saskatoon, Sask.
CJGC	500	London, Ont.
CJHS	250	Saskatoon, Sask.
CNRS	500	Saskatoon, Sask.

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The Electric Shop
Free Press Ptg. Co.
Radio Service, Ltd.
Canadian National Railways

920 kilocycles 325.9 meters

CYX	500	Mexico City
KOA	5000	Denver, Colo.
WPGH	500	Jersey City, N. J.
WRNY	500	New York City

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El Excelsior
General Electric Co.
Concourse Radio Corp.
Experimenter Publishing Co.

930 kilocycles 322.4 meters

CHNS	500	Halifax, N. S.
CYO	100	Tampico, Mex.
KFAD	500	Phoenix, Ariz.
KICK	100	Red Oak, Iowa
WHAS	500	Louisville, Ky.
WIAS	100	Ottumwa, Iowa
WKAO	500	San Juan, P. R.
WRHF	150	Washington, D. C.

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Northern Electric Co.
Cipriano Sagaon S. en C.
Electrical Equipment Co.
Atlantic Auto Co.
Courier-Journal & Times
Poling Electric Co.
Radio Corp. of Porto Rico
American Broadcasting Co.

940 kilocycles 319.0 meters

KFAB	5000	Lincoln, Nebr.
KOIL	5000	Council Bluffs, Iowa
KOIN	1000	Portland, Ore.

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Nebr. Buick Automobile Co.
Mona Motor Oil Co.
KOIN, Inc.

950 kilocycles 315.6 meters

KDKA	50000	Pittsburgh, Pa.
KPPC	50	Pasadena, Calif.
KPSN	1000	Pasadena, Calif.
2 RK	20	Havana, Cuba

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Westinghouse E. & M. Co.
Pasadena Presbyterian Church
Pasadena Star-News
Raoul Karman

960 kilocycles 312.3 meters

CFCY	100	Charlottetown, P. E. I.
CFRB	1000	Twp. of King, Ont.
CHCK	30	Charlottetown, P. E. I.
CHWC	15	Regina, Sask.
CJBC	5000	Toronto, Ont.
CJBR	500	Regina, Sask.
CKCK	500	Regina, Sask.
CKGW	5000	Bowmanville, Ont.
CNRR	500	Regina, Sask.
CYU	100	Puebla, Mex.

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The Island Radio Co.
Standard Radio Mfg. Corp.
W. E. Burke
R. H. Williams & Sons
Jarvis St. Baptist Church
Cooperative Wheat Producers
Leader Pub. Co.
Gooderham & Worts
Canadian Nat'l. Railways
A. del P. Zaoniz

970 kilocycles 309.1 meters

CZF	250	Chihuahua, Mex.
KOMO	1000	Seattle, Wash.
WABC	2500	New York City
WBOQ	500	New York City

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State of Chihuahua
Fisher's Blend Station
Atlantic Broadcasting Corp.
Atlantic Broadcasting Corp.

INDEX BY FREQUENCIES AND DIAL NUMBERS

980 kilocycles 305.9 meters

WHAZ 500 Troy, N. Y.
 WHT 5000 Chicago, Ill.
 WIBO 5000 Chicago, Ill.

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Rensselaer Polytechnic Inst.
 Radiophone Bdcstg. Corp.
 WIBO Broadcasters, Inc.

990 kilocycles 302.8 meters

KSL 1000 Salt Lake City, Utah
 WBRC 250 Birmingham, Ala.
 WGR 750 Buffalo, N. Y.
 WNAX 1000 Yankton, S. Dak.

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Radio Service Corp. of Utah
 Birmingham Broadcasting Co.
 Federal Radio Corp.
 Dakota Radio Apparatus Co.

1000 kilocycles 299.8 meters

CYA 500 Mexico City
 KFWO 250 Avalon, Calif.
 KMOX 5000 St. Louis, Mo.
 WBAK 500 Harrisburg, Pa.
 WPSG 500 State College, Pa.

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E. R. Gomez
 Lawrence Mott
 Voice of St. Louis
 Penna. State Police
 Penna. State College

1010 kilocycles 296.9 meters

CFLC 50 Prescott, Ont.
 CJRM 500 Moose Jaw, Sask.
 CJRW 500 Fleming, Sask.
 CKCR 50 Brantford, Ont.
 CKSH 50 St. Hyacinthe, Que.
 KGFV 10 Ravenna, Nebr.
 KQW 500 San Jose, Calif.
 KUOA 1000 Fayetteville, Ark.
 WDEL 250 Wilmington, Del.
 WEPS 100 Gloucester, Mass.
 WSMB 750 New Orleans, La.
 WSMK 200 Dayton, Ohio
 WWNC 1000 Asheville, N. C.

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Radio Association
 Jas. Richardson & Sons
 Jas. Richardson & Sons, Ltd.
 John Patterson
 City of St. Hyacinthe
 Otto F. Sothman
 First Baptist Church
 University of Arkansas
 WDEL, Inc.
 Matheson Radio Co., Inc.
 Saenger Theatres & Malson Blanche
 Stanley M. Krohn, Jr.
 Chamber of Commerce

1020 kilocycles 293.9 meters

KGCH 250 Wayne, Nebr.
 KGDW 100 Humboldt, Nebr.
 KGEZ 100 Kalispell, Mont.
 KPRC 500 Houston, Texas
 WLBW 500 Oil City, Pa.
 WODA 1000 Paterson, N. J.
 WOV 1000 Secaucus, N. J.
 WSYR 500 Syracuse, N. Y.
 WTMJ 1000 Milwaukee, Wis.

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Farmers & Merchants Radio Corp.
 Frank J. Rist
 Flathead Bdcstg. Assn.
 Houston Printing Co.
 Petroleum Telephone Co.
 Richard E. O'Dea
 International Broadcasting Corp.
 Clive B. Meredith
 Milwaukee Journal

1030 kilocycles 291.1 meters

CJOR 50 Sea Island, B. C.
 CNRV 500 Vancouver, B. C.

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G. C. Chandler
 Canadian Nat'l Railways

1040 kilocycles 288.3 meters

KGBX 100 St. Joseph, Mo.
 KP LA 500 Los Angeles, Calif.
 WBET 500 Boston, Mass.
 WDBO 500 Orlando, Fla.
 WENR 500 Chicago, Ill.
 WIAD 100 Philadelphia, Pa.
 WKY 150 Oklahoma City
 WNAT 100 Philadelphia, Pa.
 WSSH 100 Boston, Mass.

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Foster-Hall Tire Co.
 Pacific Development Radio Co.
 Boston Transcript Co.
 Rollins College, Inc.
 Great Lakes Radio Bdcstg. Co.
 Howard R. Miller
 WKY Radiophone Co.
 Lennig Bros. Co.
 Tremont Temple Baptist Church

1050 kilocycles 285.5 meters

KFAU 2000 Boise, Idaho
 KLCN 50 Blytheville, Ark.
 KMMJ 250 Clay Center, Nebr.
 WBAL 5000 Baltimore, Md.
 WCAL 500 Northfield, Minn.
 WDGY 500 Minneapolis, Minn.
 WJAG 250 Norfolk, Nebr.
 2 MG 20 Havana, Cuba

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Independent School Dist.
 Daily Courier News
 The M. M. Johnson Co.
 Cons. Gas Elect. & Power Co.
 St. Olaf College
 Dr. George W. Young
 Norfolk Daily News
 M. y G. Salas

INDEX BY FREQUENCIES AND DIAL NUMBERS

1060 kilocycles 282.8 meters

KFXF	250	Denver, Colo.
KVI	250	Tacoma, Wash.
WAIU	5000	Columbus, Ohio
WDRG	500	New Haven, Conn.
WEAO	750	Columbus, Ohio

Pikes Peak Brdcstg. Co.
Puget Sound Radio Brdcstg. Co.
American Ins. Union
Doolittle Radio Corp.
State University

1070 kilocycles 280.2 meters

KGKB	50	Goldthwaite, Texas
KTAB	500	Oakland, Calif.
WHAM	5000	Rochester, N. Y.
WOAI	5000	San Antonio, Texas

Eagle Publishing Co.
Associated Broadcasters
Stromberg-Carlson Tel. Mfg. Co.
Southern Equipment Co.

1080 kilocycles 277.6 meters

KEX	2500	Portland, Ore.
KGJF	250	Little Rock, Ark.
KWJG	500	Brownsville, Texas
WDZ	100	Tuscola, Ill.
WGHP	750	Detroit, Mich.
WKAR	500	East Lansing, Mich.

Western Broadcasting Co.
First Church of the Nazarene
Chamber of Commerce
James L. Bush
George Harrison Phelps, Inc.
Michigan Agricultural College

1090 kilocycles 275.1 meters

CYB	500	Mexico City
KFBB	50	Havre, Mont.
KFBK	100	Sacramento, Calif.
KFPL	15	Dublin, Texas
KTBI	1000	Los Angeles, Calif.
WEAN	500	Providence, R. I.
WFBM	1000	Indianapolis, Ind.
WRBQ	100	Greenville, Miss.
WTAS	3500	Elgin, Ill.
2 UF	10	Havana, Cuba

J. J. Reynosa
F. A. Buttrey Co.
Kimball-Upson Co.
C. C. Baxter
Bible Inst. of Los Angeles
The Shepard Stores
Indianapolis Power & Light Co.
J. Pat Scully
Illinois Broadcasting Corp.
Benito V. Ferro

1100 kilocycles 272.6 meters

KFJF	750	Oklahoma City
KRSC	50	Seattle, Wash.
KSMR	100	Santa Maria, Calif.
KVL	100	Seattle, Wash.
KWTC	100	Santa Ana, Calif.
WBAA	500	Lafayette, Ind.
WFBJ	100	Collegeville, Minn.
WFDF	100	Flint, Mich.
WPG	5000	Atlantic City, N. J.
WRM	500	Urbana, Ill.
WSKC	250	Bay City, Mich.

Nat'l Radio Mfg. Co.
Radio Sales Corp.
Santa Maria Valley R. R. Co.
Arthur C. Dailey
Pacific Broadcasting Federation
Purdue University
St. John's University
Frank D. Fallain
Municipality of Atlantic City
University of Ill.
World's Star Knitting Co.

1110 kilocycles 270.1 meters

KFLX	100	Galveston, Tex.
KGU	600	Honolulu, Hawaii
KKP	15	Seattle, Wash.
KLDS	1500	Independence, Mo.
KMBC	1500	Independence, Mo.
KMED	50	Medford, Ore.
KOAC	500	Corvallis, Ore.
KOV	500	Pittsburgh, Pa.
WGST	500	Atlanta, Ga.
WHAD	500	Milwaukee, Wis.
WISN	250	Milwaukee, Wis.
WJAS	500	Pittsburgh, Pa.
WMAZ	500	Macon, Ga.
2 TW	20	Havana, Cuba

George Roy Clough
Marion A. Mulrony
City of Seattle
Church of Latter Day Saints
Midland Broadcasting Co.
W. J. Virgin
State Agricultural College
Doubleday-Hill Elec. Co.
Georgia School of Technology
Marquette University
Evening Wisconsin Co.
Pittsburgh Radio Supply House
Mercer University
Roberto E. Ramirez

INDEX BY FREQUENCIES AND DIAL NUMBERS

1120 kilocycles 267.7 meters

CFJC	15	Kamloops, B. C.
CFMC	20	Kingston, Ont.
CFRC	500	Kingston, Ont.
CHGS	25	Summerside, P. E. I.
CJOC	50	Lethbridge, Alta.
CKPR	50	Midland, Ont.
KFIZ	100	Fond du Lac, Wis.
KFLV	100	Rockford, Ill.
KFWI	500	San Francisco, Calif.
KSBA	1000	Shreveport, La.
WAAM	250	Newark, N. J.
WBAA	100	Decatur, Ill.
WDAE	500	Tampa, Fla.
WFBG	100	Altoona, Pa.
WGCP	250	Newark, N. J.
WLAP	30	Louisville, Ky.
WNJ	250	Newark, N. J.
WOBW	250	Charleston, W. Va.

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N. S. Dalgleish & Sons
 Monarch Battery Co.
 Queen's University
 R. T. Holman, Ltd.
 J. E. Palmer
 E. O. Swan
 Commonwealth Reporter
 Sewdish Evan. Mission Church
 Radio Entertainments, Inc.
 W. G. Patterson
 WAAM, Inc.
 James Millikin University
 Tampa Publishing Co.
 Wm. F. Gable Co.
 May Radio Broadcast Corp.
 American Broadcasting Corp.
 Radio Investment Co.
 Charleston Radio Bdcstg. Co.

1130 kilocycles 265.3 meters

CYF	100	Oaxaca, Mex.
KTSA	2000	San Antonio, Tex.
WBES	100	Salisbury, Md.
WHK	500	Cleveland, Ohio
WIOC	500	Bridgeport, Conn.
WNOX	1000	Knoxville, Tenn.
WOI	2500	Ames, Iowa

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F. Zonillo
 Alamo Broadcast Co.
 Tom F. Little
 Radio Air Service Corp.
 Bridgeport Bdcstg. Station
 Sterchi Bros.
 Iowa State College

1140 kilocycles 263.0 meters

KFPW	50	Sulphur Springs, Ark.
KGEF	1000	Los Angeles, Calif.
KGEK	50	Yuma, Colo.
KGFH	250	Glendale, Calif.
WDAG	250.	Amarillo, Tex.
WJAZ	5000	Chicago, Ill.
WJBI	250	Red Bank, N. J.
WJBO	100	New Orleans, La.
WMBI	500	Chicago, Ill.
WSEA	500	Portsmouth, Va.

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Rev. Lannie W. Stewart
 Trinity Methodist Church
 Beehler Elec. Equip. Co.
 Frederick Robinson
 J. Laurance Martin
 Zenith Radio Corp.
 Robert S. Johnson
 Valdemar Jensen
 Moody Bible Institute
 Virginia Beach Bdcstg. Co.

1150 kilocycles 260.7 meters

KGA	2000	Spokane, Wash.
KGHI	15	Little Rock, Ark.
WCAU	1000	Philadelphia, Pa.
WCMA	500	Culver, Ind.
WFIW	1000	Hopkinsville, Ky.
WNBH	250	New Bedford, Mass.
WOOD	500	Grand Rapids, Mich.
WRHM	1000	Minneapolis, Minn.
6 BY	200	Cienfuegos, Cuba

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Northwest Radio Service Co.
 Berean Bible Class
 Universal Broadcasting Co.
 Culver Military Academy
 The Acme Mills, Inc.
 New Bedford Broadcasting Co.
 Walter B. Stiles, Inc.
 Rosedale Hospital Co., Inc.
 Jose Ganduxe

1160 kilocycles 258.5 meters

KFUL	500	Galveston, Tex.
WBT	1000	Charlotte, N. C.
WEBW	500	Beloit, Wis.
WFBL	750	Syracuse, N. Y.
WIL	250	St. Louis, Mo.

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Will H. Ford
 C. C. Coddington
 Beloit College
 The Onondaga Co., Inc.
 WIL Broadcasting Corp.

1170 kilocycles 256.3 meters

KTNT	2000	Muscatine, Iowa
WASH	250	Grand Rapids, Mich.
WBRR	1000	Rossville, N. Y.
WCSS	500	Springfield, Ohio
WLTH	250	Brooklyn, N. Y.
WRBL	50	Columbus, Ga.
20 L	100	Havana, Cuba

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Norman Baker
 Baxter Laundries, Inc.
 Peoples Pulpit Assn.
 Wittenberg College
 The Voice of Brooklyn
 R. E. Martin
 Oscar C. Orta

INDEX BY FREQUENCIES AND DIAL NUMBERS

1180 kilocycles 254.1 meters

KFKU	500	Lawrence, Kans.
KGDA	15	Dell Rapids, S. D.
KGFX	200	Pierre, S. D.
KMO	500	Tacoma, Wash.
WABO	500	Rochester, N. Y.
WCAX	100	Burlington, Vt.
WHEC	500	Rochester, N. Y.
WREN	750	Lawrence, Kans.
WRVA	1000	Richmond, Va.
WTAQ	500	Eau Claire, Wis.

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University of Kansas
Home Auto Co.
DNA McNeil
KMO, Inc.
Lake Ave. Baptist Church
University of Vermont
Hickson Electric Co., Inc.
Jenny Wren Co.
Larus & Bro. Co., Inc.
C. S. Van Gorden

1190 kilocycles 252.0 meters

KEJK	250	Los Angeles, Calif.
KFSG	500	Los Angeles, Calif.
KOCW	250	Chickasha, Okla.
WGAL	15	Lancaster, Pa.
WKBF	250	Indianapolis, Ind.
WKBT	50	New Orleans, La.
WKJC	50	Lancaster, Pa.
WMBR	100	Tampa, Fla.
WORD	5000	Batavia, Ill.

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Freeman Lang and A. B. Scott
Echo Park Evan. Assn.
College for Women
Lancaster Elec. Supply Co.
Noble Butler Watson
First Baptist Church
Kirk Johnson & Co.
F. J. Reynolds
People's Pulpit Assn.

1200 kilocycles 249.9 meters

KFHA	50	Gunnison, Colo.
KFJI	50	Astoria, Ore.
KFJZ	50	Ft. Worth, Tex.
KFKA	500	Greeley, Colo.
KFRU	500	Columbia, Mo.
KFYR	250	Bismarck, N. Dak.
KWJJ	50	Portland, Ore.
WBAX	100	Wilkes-Barre, Pa.
WBYY	75	Charleston, S. C.
WBRE	100	Wilkes-Barre, Pa.
WCAZ	50	Carthage, Ill.
WCOA	500	Pensacola, Fla.
WHBY	50	West De Pere, Wis.
WBRR	50	Steubenville, Ohio
WQBS	60	Weirton, W. Va.
WRBJ	10	Hattiesburg, Miss.
WREC	500	Memphis, Tenn.
WSAZ	100	Huntington, W. Va.
WSIX	150	Springfield, Tenn.
2BB	15	Havana, Cuba

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Western College of Colorado
George Kincaid
Henry C. Allison
State Teachers' College
Stephens College
Hoskins-Meyer
Wilbur Jerman
John H. Stenger, Jr.
Washington Light Infantry
Louis G. Baltimore
Carthage College
City of Pensacola
St. Norbert's College
Thurman A. Owings
J. H. Thompson
Woodruff Furniture Co.
WREC, Inc.
McKellar Electric Co.
638 Tire & Vulcanizing Co.
Bernardo Barrie

1210 kilocycles 247.8 meters

CFCO	25	Chatham, Ont.
CFNB	50	Fredericton, N. B.
CHWK	5	Chilliwack, B. C.
CKMC	5	Cobalt, Ont.
CKPC	25	Preston, Ont.
KFJB	100	Marshalltown, Ia.
KFWC	100	San Bernardino, Calif.
KGB	100	San Diego, Calif.
KGCA	10	Decorah, Iowa
KWLC	50	Decorah, Iowa
WABY	50	Philadelphia, Pa.
WCAT	100	Rapid City, S. D.
WDWF	250	Cranston, R. I.
WIBX	150	Utica, N. Y.
WFKD	50	Philadelphia, Pa.
WIOD	1000	Miami Beach, Fla.
WLCI	50	Ithaca, N. Y.
WLSI	250	Cranston, R. I.
WRJN	50	Racine, Wis.
WTAZ	50	Streator, Ill.

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Western Ontario "Better Radio" club
James S. Neill & Sons
Chilliwack Brdcastg. Co., Ltd.
R. L. MacAdam
Wallace Russ
Marshall Electric Co.
James R. Fouch
Southwestern Broadcasting Corp.
Charles W. Greenley
Luther College
John Magaldi, Jr.
State School of Mines
Dutee W. Flint
WIBX, Incorporated
Foulkrod Radio Eng. Co.
Isle of Dreams Brdcastg. Co.
Lutheran Assn. of Ithaca
The Lincoln Studios, Inc.
Racine Broadcasting Corp.
Williams Hdw. Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1220 kilocycles 245.8 meters

KFH	500	Wichita, Kans.
KFIO	100	Spokane, Wash.
KFPY	250	Spokane, Wash.
KGY	50	Lacey, Wash.
KJBS	100	San Francisco, Calif.
KLS	250	Oakland, Calif.
WAAT	300	Jersey City, N. J.
WEVD	500	Woodhaven, N. Y.
WFBE	250	Cincinnati, Ohio
WGBB	400	Freeport, N. Y.
WGMS	500	St. Paul-Minneapolis
WHDI	500	Minneapolis, Minn.
WKRC	500	Cincinnati, Ohio
WLB	500	Minneapolis, Minn.
WWL	500	New Orleans, La.

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Hotel Lassen
 North Central High School
 Symons Investment Co.
 St. Martins College
 Julius Brunton & Sons Co.
 Warner Bros.
 Bremer Bdcstg. Corp.
 Eugene V. Debs Memorial Fund
 Park View Hotel
 Harry H. Carman
 Washburn-Crosby Co.
 Wm. Hood Dunwoody Indus. Inst.
 Kodak Radio Corp.
 University of Minnesota
 Loyola University

1230 kilocycles 243.8 meters

KFCB	125	Phoenix, Ariz.
KGCX	10	Vida, Mont.
KGRS	250	Amarillo, Tex.
KSCJ	500	Sioux City, Iowa
WCAD	500	Canton, N. Y.
WCAD	250	Baltimore, Md.
WDOD	500	Chattanooga, Tenn.
WFBR	250	Baltimore, Md.
WMBC	100	Detroit, Mich.

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Nielsen Radio Supply Co.
 First State Bank of Vida
 Gish Radio Service
 Perkins Bros. Co.
 St. Lawrence University
 Monumental Radio, Inc.
 Chattanooga Radio Co., Inc.
 Baltimore Radio Shop
 Michigan Bdcstg. Co., Inc.

1240 kilocycles 241.8 meters

KFKB	1500	Milford, Kans.
KFON	1000	Long Beach, Calif.
WEBC	250	Superior, Wis.
WBRR	200	Buffalo, N. Y.
WEDC	100	Chicago, Ill.
WFCI	100	Pawtucket, R. I.
WGES	500	Chicago, Ill.
WMAL	500	Washington, D. C.
WNBX	10	Springfield, Vt.

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Dr. J. R. Brinkley
 Nichols & Warinner, Inc.
 Head of Lakes Bdcstg. Co.
 H. H. Howell
 Emil Denemark
 Frank Crook, Inc.
 Oak Leaves Bdcstg. Corp.
 M. A. Leese Co.
 First Congregational Church

1250 kilocycles 239.9 meters

KFJR	500	Portland, Ore.
KGCU	100	Mandan, N. Dak.
KWCR	250	Cedar Rapids, Iowa
WBWA	5000	Nashville, Tenn.
WCAP	500	Asbury Park, N. J.
WIBA	100	Madison, Wis.
WJAM	250	Waterloo, Iowa
WNAD	500	Norman, Okla.
WOAN	500	Lawrenceburg, Tenn.
WOAX	500	Trenton, N. J.
WOBX	65	Clarksburg, W. Va.
WSPD	250	Toledo, Ohio

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Ashley C. Dixon & Son
 Mandan Radio Association
 H. E. Paar
 Waldrum Drug Co.
 Radio Industries Broadcast Co.
 Capital Times-Strand Theater
 Waterloo Broadcasting Co.
 University of Oklahoma
 Vaughan School of Music
 Franklyn J. Wolff
 John Raikes
 Toledo Broadcasting Co.

1260 kilocycles 238.0 meters

WABZ	50	New Orleans, La.
WADC	1000	Akron, Ohio
WIBX	150	Utica, N. Y.
WJBB	250	Sarasota, Fla.
WJBW	30	New Orleans, La.
WRAW	100	Reading, Pa.
WRBC	250	Valparaiso, Ind.

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Coliseum Place Baptist Church
 Allen T. Simmons
 WIBX, Incorporated
 Financial Journal, Inc.
 Charles C. Carlson, Jr.
 Avenue Radio & Elec. Shop
 Immanuel Lutheran Church

INDEX BY FREQUENCIES AND DIAL NUMBERS

1270 kilocycles 236.1 meters

KFDX	250	Shreveport, La.
KFMX	500	Northfield, Minn.
KFFM	500	Oakland, Calif.
KRGV	100	Harlingen, Texas
WBBW	100	Norfolk, Va.
WBNY	500	New York, N. Y.
WGBF	250	Evansville, Ind.
WHAP	1000	New York City
WHBC	10	Canton, Ohio
WFOR	500	Norfolk, Va.
WSRO	100	Middletown, Ohio
WTAD	250	Quincy, Ill.
WTAR	500	Norfolk, Va.

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First Baptist Church
 Carleton College
 Oakland Educational Society
 Harlingen Music Co.
 Ruffner Junior High School
 Baruchrome Corp.
 Evansville on the Air, Inc.
 Defenders of Truth Society, Inc.
 St. John's Catholic Church
 Reliance Electric Co.
 Harry W. Fahlander
 Ill. Stock Medicine Brcdstg. Corp.
 Reliance Electric Co.

1280 kilocycles 234.2 meters

KDYL	500	Salt Lake City
KGAR	100	Tucson, Ariz.
KWK	1000	St. Louis, Mo.
WBBL	100	Richmond, Va.
WCAH	250	Columbus, Ohio
WDAH	100	El Paso, Texas
WFBC	50	Knoxville, Tenn.
WJAK	50	Kokomo, Ind.
WJBY	50	Gadsden, Ala.
WMAN	50	Columbus, Ohio
WMAY	100	St. Louis, Mo.
WMBS	250	Lemoynne, Pa.
WMPC	30	Lapeer, Mich.
2 LR	50	Havana, Cuba

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Intermountain Bdcst. Corp.
 Citizens Pubg. Co.
 Greater St. Louis Bdcstg. Corp.
 Grace Covenant Pres. Church
 Commercial Radio Service Co.
 Trinity Methodist Church
 First Baptist Church
 J. A. Kautz
 Electric Construction Co.
 W. E. Hesklitt
 Kingshighway Presb. Church
 Mack's Battery Co.
 First Methodist Protestant Church
 Jose Lara

1290 kilocycles 232.4 meters

KFEY	10	Kellogg, Idaho
KFJY	100	Fort Dodge, Iowa
KFQZ	250	Hollywood, Calif.
KGHD	5	Missoula, Mont.
KGKL	100	Georgetown, Texas
KUT	500	Austin, Texas
WBRL	500	Tilton, N. H.
WHBO	100	Memphis, Tenn.
WKS	500	Gary, Ind.
WLBH	30	Farmingdale, N. Y.
WNBZ	10	Saranac Lake, N. Y.
WSBC	500	Chicago, Ill.

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Union High School
 C. S. Tunwall
 Taft Radio & Brcdstg. Co.
 Elmore-Nash Broadcasting Corp.
 M. L. Cates
 University of Texas
 Booth Radio Laboratories
 Brcdstg. Station WHBO, Inc.
 Johnson Kennedy Radio Corp.
 Joseph J. Lombardi
 Smith & Mace
 World Battery Co., Inc.

1300 kilocycles 230.6 meters

KDLR	15	Devils Lake, N. D.
KFEQ	1000	St. Joseph, Mo.
KFFM	15	Greenville, Texas
KPCB	100	Seattle, Wash.
KPO	100	Seattle, Wash.
KRE	100	Berkeley, Calif.
KZM	100	Hayward, Calif.
WAAD	25	Cincinnati, Ohio
WAFD	100	Detroit, Mich.
WCOC	500	Columbus, Miss.
WDBJ	250	Roanoke, Va.
WGBI	250	Scranton, Pa.
WIBZ	15	Montgomery, Ala.
WKBH	500	La Crosse, Wis.
WQAN	250	Scranton, Pa.

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Radio Electric Co.
 Scroggin & Co. Bank
 The New Furniture Co.
 Pac. Coast Biscuit Co.
 Archie Taft & Louis Wasmer
 First Congregational Church
 Leon P. Tenney
 Ohio Mechanics Institute
 Albert B. Parfet Co.
 Crystal Oil Co.
 Richardson-Wayland Elec. Corp.
 Scranton Broadcasters, Inc.
 Alexander D. Trum
 Callaway Music Co.
 Scranton Times

* 1310 kilocycles 228.9 meters

KELW	500	Burbank, Calif.
KFIF	50	Portland, Ore.
KTAP	250	San Antonio, Texas
KTBR	500	Portland, Ore.
WGBC	15	Memphis, Tenn.
WHBP	250	Johnstown, Pa.
WKBE	100	Webster, Mass.
WMBL	100	Lakeland, Fla.
WNBR	100	Mempnis, Tenn.
WOWO	5000	Ft. Wayne, Ind.

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Earl L. White
 Benson Polytechnic Institute
 Robert B. Bridge
 M. E. Brown
 First Baptist Church
 Johnstown Automobile Co.
 K. & B. Electric Co.
 Benford's Radio Studios
 John Ulrich
 Main Auto Supply Co.

INDEX BY FREQUENCIES AND DIAL NUMBERS

1320 kilocycles 227.1 meters

KFEL	250	Denver, Colo.
KFUP	100	Denver, Colo.
KGHB	250	Honolulu, Hawaii
KSO	500	Clarinda, Iowa
WBBC	500	Brooklyn, N. Y.
WCL	100	Kenosha, Wis.
WDSU	250	New Orleans, La.
WFJC	500	Akron, Ohio
WJAY	500	Cleveland, Ohio
WJBC	100	La Salle, Ill.
WRBT	50	Wilmington, N. C.
WSGH	500	Brooklyn, N. Y.
WTHS	200	Atlanta, Ga.
WWAE	500	Hammond, Ind.

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Eugene P. O'Fallon, Inc.
 Fitzsimmons General Hospital
 Radio Sales Co.
 Berry Seed Co.
 Brooklyn Broadcasting Corp.
 C. E. Whitmore
 Uhalt Radio
 W. F. Jones Co.
 Cleveland Radio Bdcstg. Corp.
 Hummer Furniture Co.
 Wilmington Radio Ass'n
 Amateur Radio Specialty Co.
 Technical High School
 Dr. George F. Courrier

1330 kilocycles 225.4 meters

CYM	1500	Torreon, Mexico
KFIU	10	Juneau, Alaska
KFKZ	15	Kirksville, Mo.
KFUR	500	Ogden, Utah
KGEN	100	El Centro, Calif.
WAGM	50	Royal Oak, Mich.
WCBM	100	Baltimore, Md.
WLAC	1000	Nashville, Tenn.
WMAC	500	Cazenovia, N. Y.

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Alaska Elec. Lt. & Pwr. Co.
 State Teachers College
 Peery Building Co.
 E. R. Irey & F. M. Bowles
 Robert L. Miller
 Hotel Chateau
 Life & Casualty Insurance Co.
 Clive B. Meredith

1340 kilocycles 223.7 meters

KFBL	50	Everett, Wash.
KFVS	50	Cape Girardeau, Mo.
KFXR	50	Oklahoma City
KGDP	10	Pueblo, Colo.
KGFK	50	Hallock, Minn.
KMIC	250	Inglewood, Calif.
KXRO	50	Aberdeen, Wash.
WCAM	500	Camden, N. J.
WCRW	100	Chicago, Ill.
WEBO	15	Harrisburg, Ill.
WFAN	500	Philadelphia, Pa.
WKAU	50	Laconia, N. H.
WNRC	500	Greensboro, N. C.
WOCL	25	Jamestown, N. Y.
WPCG	500	Chicago, Ill.
WSAJ	250	Grove City, Pa.

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Leese Bros.
 Hirsch Battery & Radio Co.
 Exchange Ave. Baptist Church
 Boy Scouts of America
 Kittson County Enterprise
 James R. Fouch
 KXRO, Inc.
 City of Camden
 Clinton R. White
 Tate Radio Co.
 Keystone Broadcasting Co., Inc.
 Laconia Radio Club
 Wayne M. Nelson
 A. E. Newton
 North Shore Cong. Church
 Grove City College

1350 kilocycles 222.1 meters

KGBY	50	Columbus, Nebr.
KGFL	50	Raton, N. M.
KGHG	50	McGehee, Ark.
KGHL	250	Billings, Mont.
KWKC	100	Kansas City, Mo.
WCBA	100	Allentown, Pa.
WGCM	15	Gulfport, Miss.
WHBD	100	Bellefontaine, Ohio
WHBF	100	Rock Island, Ill.
WOMT	100	Manitowoc, Wis.
WRBI	20	Tifton, Ga.
WSAN	100	Allentown, Pa.

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Thelen & Taddiken
 N. L. Gotter
 Charles W. McCollum
 Northwestern Auto Supply Co.
 Wilson Duncan Bdcstg. Co.
 B. B. Musselman
 Gulf Coast Music Co.
 Chamber of Commerce
 Beardsley Specialty Co.
 Mikadow Theatre
 Kents Furniture & Music Store
 Allentown Call Publishing Co.

1360 kilocycles 220.4 meters

KFOU	100	Holy City, Calif.
KGCI	100	San Antonio, Tex.
KGFI	15	San Angelo, Tex.
KGRC	100	San Antonio, Tex.
KGTT	50	San Francisco, Calif.
KRMD	50	Shreveport, La.
KSTP	3500	St. Paul, Minn.
KXL	250	Portland, Ore.
WHBU	15	Anderson, Ind.
WHBW	100	Philadelphia, Pa.
WJBK	15	Ypsilanti, Mich.
WMBG	15	Richmond, Va.
WMBO	100	Auburn, N. Y.
WTAZ	15	Richmond, Va.

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W. E. Riker
 Liberto Radio Sales
 San Angelo Broadcasting Co.
 Gene Roth & Co.
 Glad Tidings Temple
 Robert M. Dean
 National Battersy Bdcstg. Co.
 KXL Broadcasters
 Citizens Bank
 D. R. Klenze
 Ernest F. Goodwin
 Havens & Martin
 Radio Service Laboratories
 W. Reynolds Jr. & T. J. McGuire

INDEX BY FREQUENCIES AND DIAL NUMBERS

1370 kilocycles 218.7 meters

KGEW	100	Fort Morgan, Colo.
KOW	250	Denver, Colo.
WCGU	500	Coney Island, N. Y.
WKBC	10	Birmingham, Ala.
WKBO	500	Jersey City, N. J.
WKBQ	250	New York City
WKBV	100	Brookville, Ind.
WRAK	30	Erie, Pa.

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City of Fort Morgan
Associated Industries, Inc.
U. S. Broadcast Corp.
H. I. Ansley
Camith Corp.
Standard Cahill Co., Inc.
Knox Battery & Elec. Co.
C. K. Cummins

1380 kilocycles 217.3 meters

KFOR	100	Lincoln, Nebr.
KFOW	100	Seattle, Wash.
KGDM	10	Stockton, Calif.
WIBU	20	Poynette, Wis.
WKBS	100	Galesburg, Ill.
WKBW	5000	Buffalo, N. Y.
WLBO	100	Galesburg, Ill.

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Howard A. Shuman
KFQW, Inc.
E. F. Pfeffer
The Electric Farm
Permil N. Nelson
Churchill Evangelistic Assn.
Fred A. Trebbe, Jr.

1390 kilocycles 215.7 meters

K FVD	250	Culver City, Calif.
KGCB	50	Oklahoma City
KGER	100	Long Beach, Calif.
KGFG	50	Oklahoma City
WCLS	150	Joliet, Ill.
WEHS	100	Evanston, Ill.
WHFC	100	Chicago, Ill.
WKBB	150	Joliet, Ill.
WKBI	50	Chicago, Ill.
WLX	50	Lexington, Mass.
WOKO	500	Peekskill, N. Y.
WQBC	100	Utica, Miss.

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W. J. & G. I. McWhinnie
Wallace Radio Institute
C. Merwin Dobyns
Full Gospel Church
WCLS, Inc.
Victor C. Carlson
Goodson & Wilson, Inc.
Sanders Bros.
Fred L. Schoenwolf
Lexington Air Station
Harold E. Smith
Utica Chamber of Commerce

1400 kilocycles 212.6 meters

KFEC	50	Portland, Ore.
KFWF	250	St. Louis, Mo.
KPJM	15	Prescott, Ariz.
WCSS	5000	Portland, Maine
WCWK	250	Ft. Wayne, Ind.
WJBU	100	Lewisburg, Pa.
WKBN	50	Youngstown, Ohio
WLBG	100	Petersburg, Va.

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Meier & Frank Co.
St. Louis Truth Center, Inc.
Frank Wilburn
Congress Square Hotel Co.
Chester W. Keen
Bucknell University
W. P. Williamson, Jr.
Robert Allen Gamble

1410 kilocycles 212.6 meters

KGBZ	100	York, Nebr.
KGFJ	100	Los Angeles, Calif.
KGGH	50	Cedar Grove, La.
KTUE	5	Houston, Texas
KWEA	250	Shreveport, La.
WCDA	250	Brooklyn, N. Y.
WJBL	250	Decatur, Ill.
WKBP	50	Battle Creek, Mich.
WRAX	250	Philadelphia, Pa.
WSAR	250	Fall River, Mass.

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Federal Live Stock Remedy Co.
Ben S. McGlashan
Bates Radio & Electric Co.
Uhalt Electric
William E. Antony
Italian Educ. Brdcstg. Co.
Wm. Gushard Dry Goods Co.
Enquirer-News Co.
Berachah Church, Inc.
Doughty & Welch Elec. Co.

1420 kilocycles 211.1 meters

KFCR	100	Santa Barbara, Calif.
KFYO	100	Breckenridge, Tex.
WBMH	100	Detroit, Mich.
WCOH	250	Greenville, N. Y.
WINR	150	Bay Shore, N. Y.
WLOE	100	Chelsea, Mass.
WMES	50	Boston, Mass.
WNBO	15	Washington, Pa.

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Santa Barbara Brdcstg. Co.
Kirksey Bros. Battery & Elec.
Braun's Music House
Westchester Brdcstg. Corp.
Radiotel Mfg. Co., Inc.
William S. Pote
Massachusetts Educ. Society
John Brownlee Spriggs

1430 kilocycles 209.7 meters

KFGO	10	Boone, Iowa
KFXJ	50	Edgewater, Colo.
KGHA	500	Pueblo, Colo.
KGHF	250	Pueblo, Colo.
KSOO	250	Sioux Falls, S. D.
KVOS	50	Bellingham, Wash.
WCBS	250	Springfield, Ill.

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Boone Biblical College
R. G. Howell
George H. Sweeney & N. S. Walpole
C. P. Ritchie & J. E. Finch
Sioux Falls Broadcast Assn.
L. Kessler
H. L. Dewing & Charles Messter

INDEX BY FREQUENCIES AND DIAL NUMBERS

WLBC 50 Muncie, Ind.
WLBF 50 Kansas City, Kans.
WMBM 10 Memphis, Tenn.
WNEW 100 Newport News, Va.
WPRC 100 Harrisburg, Pa.
WTFI 500 Toccoa, Ga.

1440 kilocycles 208.2 meters

KGCN 50 Concordia, Kansas
KGCR 15 Brookings, S. D.
WBOW 100 Terre Haute, Ind.
WEDH 30 Erie, Pa.
WLBZ 250 Dover-Foxcroft, Me.
WRAF 100 La Porte, Ind.

1450 kilocycles 206.8 meters

KGDR 15 San Antonio, Texas
KGDY 15 Oldham, S. D.
KGGF 100 Picher, Okla.
WHPP 10 New York, N. Y.
WLBV 50 Mansfield, Ohio
WMRJ 10 Jamaica, N. Y.
WNBF 50 Endicott, N. Y.
WNBJ 50 Knoxville, Tenn.
WPSW 50 Philadelphia, Pa.

1460 kilocycles 205.4 meters

KFXV 25 Flagstaff, Ariz.
KGDE 50 Barrett, Minn.
KGEO 100 Grand Island, Nebr.
KGFF 25 Alva, Okla.
WABF 250 Kingston, Pa.
WMBD 250 Peoria Hts., Ill.
WNBQ 15 Rochester, N. Y.
WOBT 15 Union City, Tenn.
WRK 100 Hamilton, Ohio

1470 kilocycles 204.0 meters

KFXD 15 Jerome, Idaho
KGES 10 Central City, Nebr.
KGGM 100 Albuquerque, N. M.
KLRA 50 Little Rock, Ark.
WBBZ 100 Ponca City, Okla.
WHBL 250 Sheboygan, Wis.
WIBW 250 Topeka, Kans.
WKEN 750 Grand Island, N. Y.
WLBX 100 L. I. City, N. Y.
WMBA 100 Newport, R. I.
WMBH 100 Joplin, Mo.
WMBQ 100 Brooklyn, N. Y.
WSVS 50 Buffalo, N. Y.

1480 kilocycles 202.6 meters

WRUF 5000 Gainesville, Fla.
WTFE 10000 Washington, D. C.

1490 kilocycles 201.2 meters

KPOF 50 Denver, Colo.
WALK 50 Willow Grove, Pa.
WIBM 100 Jackson, Mich.

1500 kilocycles 199.9 meters

KORE 50 Eugene, Ore.
KUJ 10 Longview, Wash.
KWBS 15 Portland, Ore.
WBMS 100 Union City, N. J.
WCLB 100 Brooklyn, N. Y.
WKBZ 15 Ludington, Mich.
WNBW 5 Carbondale, Pa.
WWRL 100 Woodside, N. Y.

Donald A. Burton
 Everett L. Dillard
 Seventh Day Adventist Church
 Va. Beach Brdcastg. Co.
 Wilson Printing & Radio Co.
 Toccoa Falls Institute

Concordia Brdcastg. Co.
 Cutler's Radio Brdcastg. Service
 Banks of Wabash Brdcastg. Assn.
 Erie Dispatch-Herald
 Thompson L. Guernsey
 The Radio Club, Inc.

Joe B. McShane
 J. Albert Loesch
 Dr. D. L. Connoll
 Bronx Brdcastg. Co.
 Mansfield Brdcastg. Assn.
 Peter J. Prinz
 Howitt-Wood Radio Co.
 Lonsdale Baptist Church
 School of Wireless Telegraphy

Mary M. Costigan
 Jaren Drug Co.
 Hotel Yancey
 Earl E. Hampshire
 Markle Brdcastg. Corp.
 Peoria Heights Radio Lab.
 Gordon P. Brown
 Tittsworth's Radio & Music Shop
 S. W. Doron & John C. Slade

Service Radio Co.
 Central Radio Electric Co.
 Jay Peters
 Arkansas Broadcasting Co.
 C. L. Carrell
 Press Publishing Co.
 C. L. Carrell
 Radio Station WKEN, Inc.
 John N. Brahy
 LeRoy Joseph Beebe
 Edwin Dudley Aber
 Paul J. Gollhofer
 Seneca Vocational School

University of Florida
 Independence Publishing Co.

Pillar of Fire, Inc.
 Albert A. Walker
 C. L. Carrell

Eugene Broadcast Station
 Lovejoy and Kerfoot
 Schaeffer Radio Co.
 WBMS Broadcasting Corp.
 Arthur Faske
 K. L. Ashbacher
 Home Cut Glass & China Co.
 Wm. H. Reuman

INDEX BY LOCATIONS WITH MAP KEY

ALABAMA			Oakland H-1-b	KFWM	1270
Auburn K-20-b	WAPI	880		KGO	780
Birmingham K-19-a	WBRC	990		KLS	1220
	WKBC	1370		KLX	590
Gadsden K-20-a	WJBY	1280		KTAB	1070
Montgomery K-19-b	WIBZ	1300	Pasadena J-4	KPPC	950
ALASKA				KPSN	950
Anchorage	KFQD	870	Sacramento H-2-a	KFBK	1090
Juneau	KFIU	1330	San Bernardino J-4	KFWC	1210
Ketchikan	KGBU	750	San Diego K-4-b	KFSD	680
ARIZONA				KGB	1210
Flagstaff J-7	KFXY	1460	San Francisco H-1-c	KFRC	660
Phoenix K-7	KFAD	930		KFWI	1120
	KFCB	1230		KGTT	1360
Prescott J-6	KPJM	1400		KHAC	1470
Tuscon L-7	KGAR	1280		KJBS	1220
ARKANSAS				KPO	710
Blytheville I-18	KLCN	1050	San Jose I-2	KYA	850
Fayetteville I-16	KUOA	1010	Santa Ana K-4	KQW	1010
Hot Springs J-16	KTHS	600	Santa Barbara J-3	KWTC	1100
Little Rock J-17	KGHI	1150	Santa Maria J-2-b	KFCR	1420
	KGJF	1080	Santa Monica K-3	KSMR	1100
	KLRA	1470	Stockton H-2-b	KNRC	800
McGehee K-17	KGHG	1350		KGDM	1380
Sulphur Springs I-16	KFPW	1140		KWG	870
CALIFORNIA			COLORADO		
Avalon K-3	KFWO	1000	Colorado Springs H-10	KFUM	620
Berkeley H-1-a	KRE	1300	Denver G-10-b	KFEL	1320
Burbank J-4	KELW	1310		KFUP	1320
Culver City K-3	KFVD	1390		KFXF	1060
El Centro K-5	KGEN	1330		KLZ	850
Fresno I-3	KMJ	820		KOA	920
Glendale K-3	KGFH	1140		KOW	1370
Hayward H-2	KZM	1300	Edgewater G-10	KPOF	1490
Hollywood K-3	KFQZ	1290	Fort Morgan G-11	KFXJ	1430
	KMTR	580	Greeley F-10	KGEW	1370
Holy City I-2	KFQU	1360	Gunnison H-9	KFKA	1200
Inglewood K-4	KMIC	1340	Pueblo H-11	KFHA	1200
Long Beach K-4-a	KFON	1240		KGDP	1340
	KGER	1390		KGHA	1430
Los Angeles K-3-b	KEJK	1190	Yuma G-11	KGHF	1430
	KFI	640		KGEK	1140
	KFSG	1190	CONNECTICUT		
	KFWB	830	Bridgeport F-26	WICC	1130
	KGEF	1140	Hartford E-26-d	WTIC	560
	KGJF	1410	Mansfield E-27-i	WCAC	560
	KHJ	750	New Haven F-26-b	WDRC	1060
	KNX	890	DELAWARE		
	KPLA	1040	Wilmington G-25	WDEL	1010
	KTBI	1090	DISTRICT OF COLUMBIA		
			Washington G-24-c	WMAL	1240
				WRC	640
				WRHF	930
				WTFB	1480

INDEX BY LOCATIONS WITH MAP KEY

FLORIDA					WJBT 770
Clearwater N-21	WFLA	580			WKBG 1490
Gainesville M-21	WRUF	1480			WKBI 1390
Jacksonville M-22	WJAX	880			WLIB 720
Lakeland N-22	WMBL	1310			WLS 870
Miami O-23	WQAM	780			WMAQ 670
Miami Beach O-23	WIOD	1210			WMBI 1140
	WMBF	780			WPCC 1340
Orlando N-22	WDBO	1040			WSBC 1290
Pensacola L-19	WCOA	1200		Decatur G-18	WBAO 1120
Sarasota N-22	WJBB	1260			WJBL 1410
St. Petersburg N-21	WSUN	580		Elgin E-18	WTAS 1090
Tampa N-22-b	WDAE	1120		Evanston E-19	WEHS 1390
	WMBR	1190		Galesburg F-18-a	WKBS 1380
					WLBO 1380
GEORGIA					WEBQ 1340
Atlanta K-20-a	WGST	1110		Harrisburg H-18-b	WCLS 1390
	WSB	630		Joliet E-19-f	WKBB 1390
	WTHS	1320			WJBC 1320
Columbus K-20	WRBL	1170		La Salle F-18-d	WJJJ 820
Macon K-21	WMAZ	1110		Mooseheart E-18-e	WMBD 1460
Tifton L-21	WRBI	1350		Peoria Heights G-18	WTAD 1270
Toccoa J-21	WTFI	1430		Quincy G-17	KFLV 1120
				Rockford E-18-c	WHBF 1350
HAITI					WCBS 1430
Port au Prince	HHK	830		Rock Island F-17-c	WTAX 1210
				Springfield G-18	WDZ 1080
HAWAII					WRM 1100
Honolulu	KGHB	1320		Streator F-18-e	WCBD 870
	KGU	1110		Tuscola G-19-b	
				Urbana G-19-a	
				Zion E-19-c	
IDAHO					
Boise D-4	KFAU	1050		INDIANA	
Jerome E-5	KFXD	1470		Anderson G-20-a	WHBU 1360
Kallogg B-5	KFEY	1290		Brookville G-20	WKBV 1370
Pocatello E-7	KSEI	900		Culver F-19-d	WCMA 1150
				Evansville H-19	WGBF 1270
ILLINOIS				Fort Wayne F-20-b	WCWK 1400
Batavia F-18-c	WORD	1190			WOWO 1310
Carthage F-17-e	WCAZ	1200		Gary F-19	WJKS 1290
Chicago E-19-g	KFKX	570		Hammond F-19	WWAE 1320
	KYW	570		Indianapolis G-19-c	WFBM 1090
	WAAF	770			WKBF 1190
	WBBM	770		Kokomo F-19-g	WJAK 1280
	WCFL	620		Lafayette F-19-f	WBAA 1100
	WCRW	1340		La Porte F-19-c	WRAF 1440
	WEBH	820		Muncie G-20	WLBC 1430
	WEDC	1240		South Bend F-20-a	WSBT 750
	WENR	1040		Terre Haute G-19	WBOW 1440
	WGES	1240		Valparaiso F-19-b	WRBC 1260
	WGN	720			
	WHBM	1490		IOWA	
	WHFC	1390		Ames E-16-c	WOI 1130
	WHT	980		Boone E-16	KFGQ 1430
	WIBJ	1490		Cedar Rapids E-17-a	KWCR 1250
	WIBO	980		Clarinda E-15-c	KSO 1320
	WJAZ	1140		Council Bluffs F-15-b	KOIL 940
				Davenport F-17-a	WOC 800

INDEX BY LOCATIONS WITH MAP KEY

Decorah D-17	KGCA	1210
	KWLC	1210
Des Moines F-16-a	WHO	560
Fort Dodge E-16-a	KFJY	1290
Iowa City E-17-b	WSUI	630
Marshalltown E-16-d	KFJB	1210
Muscatine F-17-b	KTNT	1170
Ottumwa F-17	WIAS	930
Red Oak F-15	KICK	930
Shenandoah F-15-c	KFNF	650
	KMA	760
Sioux City E-15	KSCJ	1230
Waterloo F-17	WJAM	1250

KANSAS

Concordia G-14	KGCN	1440
Lawrence G-15-a	KFKU	1180
	WREN	1180
Manhattan G-14-a	KSAC	900
Milford G-14	KFKB	1240
Topeka G-14	WIBW	1470
Wichita H-14-a	KFH	1220

KENTUCKY

Hopkinsville I-19	WFIW	1150
Louisville H-20	WHAS	930
	WLAP	1120

LOUISIANA

Cedar Grove M-17	KGGH	1410
New Orleans M-17	WABZ	1260
	WDSU	1320
	WJBO	1140
	WJBW	1260
	WKBT	1190
	WSMB	1010
	WWL	1220
Shreveport K-16	KFDX	1270
	KGDX	1410
	KRMD	1360
	KSBA	1120
	KWEA	1410
	KWKH	760

MAINE

Bangor C-28-b	WABI	770
Dover-Foxcroft C-28	WLBZ	1440
Portland D-28-b	WCSH	1400

MARYLAND

Baltimore G-24-a	WBAL	1050
	WCAO	1230
	WCBM	1330
	WFBR	1230
Salisbury G-25	WBES	1130

MASSACHUSETTS

Boston E-27-c	WBET	1040
	WBIS	650
	WBZA	900
	WEEI	590
	WMES	1420
	WNAC	650
	WSSH	1040
Chelsea E-27	WLOE	1420
Fall River E-27	WSAR	1410
Gloucester E-27	WEPS	1010
Lexington E-27	WLEX	1390
New Bedford E-27-g	WNBH	1150
South Dartmouth E-27	WMAF	700
Springfield E-26-b	WBZ	900
Webster E-27-d	WKBE	1310
Wellesley Hills E-27	WBSO	780
Worcester E-27-b	WTAG	580

MICHIGAN

Battle Creek E-20	WKBP	1410
Bay City D-21	WSKC	1100
Berrien Springs E-19	WEMC	620
Detroit E-21-g	WAFD	1300
	WBMH	1420
	WCX	680
	WGHP	1080
	WJR	680
	WMBC	1230
	WWJ	850
East Lansing E-20-b	WKAR	1080
Flint E-21-a	WFDF	1100
Grand Rapids E-20-a	WASH	1170
	WOOD	1150
Jackson E-20	WIBM	1490
Lapeer E-21	WMPC	1280
Ludington D-19	WKBZ	1500
Royal Oak E-21-e	WAGM	1330
Ypsilanti E-21-f	WJBK	1360

MINNESOTA

Barrett C-14	KGDE	1460
Collegetown C-15	WFBJ	1100
Hallock A-14	KGFK	1340
Minneapolis C-16-B	WCCO	740
	WDGY	1050
	WGMS	1220
	WHDI	1220
	WLB	1220
	WRHM	1150
Northfield D-16	KFMX	1270
	WCAL	1050
St. Paul C-16-c	KFOY	1350
	KSTP	1360
	WCCO	740
	WGMS	1220

INDEX BY LOCATIONS WITH MAP KEY

MISSISSIPPI			NEW HAMPSHIRE		
Columbus K-18	WCOC	1300	Laconia D-27	WKAV	1340
Greenville K-17	WRBQ	1090	Tilton E-27	WBRL	1290
Gulfport M-18	WGCM	1350	NEW JERSEY		
Hattiesburg L-18	WRBJ	1200	Asbury Park G-26	WCAP	1250
Utica L-17	WQBC	1390	Atlantic City G-25	WPG	1100
MISSOURI			Camden F-25-f	WCAM	1340
Cape Girardeau H-18-c	KFVS	1340	Cliffside F-26	WPAP	760
Columbia G-16-b	KFRU	1200	Elizabeth F-26-h	WQAO	760
Independence G-16-c	KLDS	1110	Jersey City F-26-d	WIBS	1470
Jefferson City H-16-a	KMBC	1110	Newark F-25-h	WAAT	1220
Joplin H-16	WOS	710		WKBO	1370
Kansas City G-15-b	WMBH	1470		WPCH	920
	KWKC	1350	Paterson F-26-c	WAAM	1120
	WDAF	810	Red Bank G-26	WGCP	1120
	WHB	880	Secaucus	WNJ	1120
	WLB	1430	Trenton F-25	WOR	710
	WOO	880	Union City F-26	WODA	1020
Kirksville F-16-c	KFKZ	1330		WJBI	1140
St. Joseph G-15	KFQ	1330		WVO	1020
	KGBX	1040		WOAX	1250
St. Louis H-18-a	KFUO	550		WBMS	1500
	KFWF	1400	NEW MEXICO		
	KMOX	1000	Albuquerque	KGGM	1470
	KSD	550	Raton I-11	KGFL	1350
	KWK	1280	State College K-9	KOB	760
	WEW	850	NEW YORK		
	WIL	1160	Auburn E-24	WMBO	1360
	WMAV	1280	Bay Shore F-26-h	WINR	1420
MONTANA			Brooklyn F-26-f	WBBC	1320
Billings C-8	KGHL	1350		WCDA	1410
Havre A-8	KFBB	1090		WCLB	1500
Kalispell A-5	KGEZ	1020		WLTH	1170
Missoula B-6	KGHD	1290		WMBQ	1470
Vida B-10	KUOM	650		WSGH	1320
	KGCX	1230	Buffalo E-23-a	WEBR	1240
NEBRASKA				WGR	990
Central City F-13	KGES	1470		WKBW	1380
Clay Center G-14	KMMJ	1050		WMAK	550
Columbus F-14	KGBY	1350	Canton D-25	WSVS	1470
Grand Island F-13	KGEO	1460	Cazenovia E-25-b	WCAD	1230
Humboldt G-15	KGDW	1020	Coney Island F-26	WMAC	1330
Lincoln F-14-b	KFAB	940	Endicott E-25	WCGU	1370
	KFOR	1380	Farmingdale F-26	WNB	1450
	WCAJ	790	Freeport F-26-i	WLBH	1290
Norfolk E-14-c	WJAG	1050	Grand Island E-23	WGBB	1220
Omaha F-15-a	WAAW	680	Greenville E-26	WKEN	1470
	WOW	590	Ithaca E-24-d	WCOH	1420
Ravenna F-13	KGFW	1010	Jamaica F-26-f	WLCI	1210
Wayne E-14	KGCH	1020	Jamestown E-23-b	WMRJ	1450
York F-13	KGBZ	1410	Long Island City F-26	WOCL	1340
				WLBX	1470

INDEX BY LOCATIONS WITH MAP KEY

New York City F-26	WABC	970
	WBNY	1270
	WBOQ	970
	WEAF	610
	WGBS	860
	WHAP	1270
	WHN	760
	WHPP	1450
	WJZ	660
	WKBQ	1370
	WLWL	810
	WMCA	810
	WNYC	570
	WRNY	920
	WSDA	1320
Peekskill F-26-a	WOKO	1390
Rochester E-24-b	WABO	1180
	WHAM	1070
	WHEC	1180
	WNBQ	1460
Rossville F-26	WBBR	1170
Saranac Lake D-26	WNBZ	1290
Schenectady E-25-c	WGY	790
Syracuse E-24-c	WFBL	1160
	WSYR	1020
Troy E-21-a	WHAZ	980
Utica E-25-a	WIBX	1260
Woodhaven F-26	WEVD	1220
Woodside F-26	WWRL	1500

NORTH CAROLINA

Asheville J-21	WWNC	1010
Charlotte J-22	WBT	1160
Greensboro I-22	WNRC	1340
Raleigh I-23	WPTF	550
Wilmington J-24	WRBT	1320

NORTH DAKOTA

Bismarck B-12	KFYR	1200
Devils Lake A-13	KDLR	1300
Fargo B-14	WDAY	550
Grand Forks A-14	KFJM	900
Mandan B-12	KGCU	1250

OHIO

Akron F-22-b	WADC	1260
	WFJC	1320
Bellefontaine G-21-a	WHBD	1350
Cambridge F-22	WEBE	1210
Canton F-22-d	WHBC	1270
Cincinnati G-20-e	WAAD	1300
	WFBE	1220
	WKRC	1220
	WSL	700
	WSAI	830

Cleveland F-22-a	WEAR	750
	WHK	1130
	WJAY	1320
	WTAM	750
Columbus G-21-b	WAIU	1060
	WCAH	1280
	WEAO	1060
	WMAN	1280
Dayton G-21-e	WSMK	1010
Hamilton G-20-d	WRK	1460
Mansfield F-21	WLTV	1450
Middletown G-20	WSRO	1270
Springfield G-21-c	WCOS	1170
Steubenville F-22	WIBR	1200
Toledo F-21-a	WSPD	1250
Youngstown F-22	WKBN	1400
	WMBW	1400

OKLAHOMA

Alva I-13	KGFF	1460
Chickasha J-14-b	KOCW	1190
Norman J-14-a	WNAD	1250
Oklahoma City I-14-b	KFJF	1100
	KFXR	1340
	KGCB	1390
	KGFG	1390
	WKY	1040
Picher I-15	KGGF	1450
Ponca City I-14	WBBZ	1470
Tulsa I-15	KVOO	860

OREGON

Astoria C-1-a	KFJI	1200
Corvallis D-1	KOAC	1110
Eugene D-1	KORE	1500
Medford E-1	KMED	1110
Portland C-1-b	KEX	1080
	KFEC	1400
	KFIF	1310
	KFJR	1250
	KGW	610
	KOIN	940
	KTBR	1310
	KWBS	1500
	KWJJ	1200
	KKL	1360

PENNSYLVANIA

Allentown F-25-c	WCBA	1350
	WSAN	1350
Altoona F-24-c	WFBG	1120
Carbondale F-25	WNBW	1500
Elkins Park G-25-c	WIBG	680
Erie E-23	WEDH	1440
	WRAK	1370

INDEX BY LOCATIONS WITH MAP KEY

Grove City F-23-b	WSAJ	1340	SOUTH DAKOTA	
Harrisburg F-24-d	WBAK	1000	Brookings D-14	KFDY 550
Johnstown F-23-d	WPRC	1430	Dell Rapids D-14	KGCR 1440
Kingston F-24	WHBP	1310	Mitchell D-14	KGDA 1180
Lancaster G-25-a	WABF	1460	Oldham D-14	KGFP 1410
Lemoyne G-24	WGAL	1190	Pierre D-12	KGDY 1450
Lewisburg F-24-b	WKJC	1190	Rapid City D-11	KGFX 1180
Monessen G-23	WMBS	1280	Sioux Falls D-14	WCAT 1210
Oil City F-23-a	WJBU	1400	Vermillion E-14-b	KSOO 1430
Philadelphia G-25-d	WMBJ	1290	Yankton E-14-a	KUSD 620
	WLBW	1020		WNAX 990
	WABY	1210	TENNESSEE	
	WCAU	1150	Chattanooga J-20	WDOD 1230
	WFAN	1340	Knoxville I-20	WFBC 1280
	WFI	740		WNBK 1450
	WFKD	1210	Lawrenceburg J-19	WNOX 1130
	WHBW	1360	Memphis J-18-a	WOAN 1250
	WIAD	1040		WGBC 1310
	WIP	860		WHBQ 1290
	WLIT	740		WMBM 1430
	WNAT	1040		WMC 580
	WOO	860		WNBR 1310
	WPSW	1450		WREC 1200
	WRAX	1410		WBAW 1250
Pittsburgh F-23-c	KDKA	950	Nashville I-19	WLAC 1330
	KOV	1110		WSM 890
	WCAE	650	Springfield I-19	WSIX 1200
	WJAS	1110	Union City I-18	WOBT 1460
	WRAW	1260		
Reading F-25-d	WGBI	1300	TEXAS	
Scranton F-25-a	WQAN	1300	Amarillo J-12	KGRS 1230
State College F-24-a	WPSC	1000		WDAG 1140
Washington F-23	WNBO	1420	Austin L-14-b	KUT 1290
Wilkes-Barre F-25-b	WBAX	1200	Beaumont M-16	KFDM 620
Willow Grove G-25	WBRE	1200	Breckenridge K-13	KFYO 1420
	WALK	1490	Brownsville O-14-b	KWWG 1080
			College Station M-13	WTAW 620
			Dallas L-15-a	KRLD 650
				WFAA 550
				WRR 650
			Dublin K-14	KFPL 1090
			El Paso L-10	WDAH 1280
			Fort Worth L-14-a	KFJZ 1200
				KFQB 900
				WBAP 600
			Galveston M-15-b	KFLX 1110
				KFUL 1160
			Georgetown L-14	KGKL 1290
			Goldthwaite L-13	KGKB 1070
			Greenville K-15	KFPM 1300
			Harlingen O-14	KRGV 1270
			Houston M-15-a	KPRC 1020
				KTUE 1410
PORTO RICO				
San Juan	WKAQ	930		
RHODE ISLAND				
Cranston F-27-a	WDWF	1210		
	WLSI	1210		
Newport F-27	WMBA	1470		
Pawtucket E-27	WFCI	1240		
Providence E-27-h	WEAN	1090		
	WJAR	620		
SOUTH CAROLINA				
Charlestown K-23	WBBY	1200		

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San Angelo M-12	KGFI	1360	Spokane A-4	KFIO	1220
	KGKL	1370		KFPY	1220
San Antonio M-14-a	KGCI	1360		KGA	1150
	KGDR	1450		KHQ	810
	KGRC	1360	Tacoma B-1-a	KMO	1180
	KTAP	1310		KVI	1060
	KTSA	1130			
	WOAI	1070	WEST VIRGINIA		
Waco L-15-b	WJAD	900	Charleston H-22	WOBW	1120
UTAH			Clarksburg G-22	WQBJ	1250
Ogden F-7-b	KFUR	1330	Huntington G-22	WSAZ	1200
Salt Lake City F-7-c	KDYL	1280	Weirton G-22	WQBZ	1200
	KSL	990	Wheeling G-22	WWVA	580
VERMONT			WISCONSIN		
Burlington D-26-a	WCAX	1180	Beloit E-18-b	WEBW	1160
Springfield D-26-b	WNBX	1240	Eau Claire D-17	WTAQ	1180
			Fond du Lac D-18-d	KFIZ	1120
VIRGINIA			Kenosha E-19	WCLO	1320
Arlington G-24-d	NAA	690	La Crosse E-17	WKBH	1300
Charlottesville H-23	WRCV	1430	Madison E-18-2	WHA	900
Newport News	WNEW	1430		WIBA	1250
Norfolk I-24	WBBW	1270	Manitowoc D-19	WOMT	1350
	WPOR	1270	Milwaukee E-19-a	WHAD	1110
	WTAR	1270		WISN	1110
Petersburg I-24	WLBG	1400	Poynette D-18-e	WTMJ	1020
Portsmouth I-24	WSEA	1140	Racine E-19	WIBU	1380
Richmond H-24	WBBL	1280	Sheboygan C-18	WRJN	1210
	WMBG	1360	Stevens Point D-18-b	WHBL	1470
	WRVA	1180	Superior B-17	WLBL	900
	WTAZ	1360	West De Pere D-19	WEBC	1240
Roanoke H-23	WDBJ	1300		WHBY	1200
WASHINGTON			WYOMING		
Aberdeen B-1	KXRO	1340	Laramie F-10	KFBW	620
Bellingham A-1	KVOS	1430			
Everett A-2	KFBL	1340	CANADA		
Lacey B-2-b	KGY	1220	ALBERTA		
Longview B-1	KUJ	1500	Calgary	CFAC	690
Pullman B-4	KWSC	760		CFCN	690
Seattle B-2-a	KFOA	670		CHCA	690
	KFQW	1380		CJCJ	690
	KJR	860	Edmonton	CNRC	690
	KKP	1110		CHMA	580
	KOMO	970		CJCA	580
	KPCB	1300		CKUA	580
	KPQ	1300	Lethbridge	CNRE	580
	KRSC	1100	Red Deer	CJOC	1120
	KTW	760		CHCT	840
	KVL	1100		CKLC	840
	KXA	560			
			BRITISH COLUMBIA		
			Chilliwack	CHWK	1210
			Kamloops	CFJC	1120

INDEX BY LOCATIONS WITH MAP KEY

Sea Island	CJOR	1030	QUEBEC		
Vancouver	CHLS	730	Montreal	CFCF	730
	CKCD	730		CHYC	730
	CKFC	730		CKAC	730
	CKMO	730	Quebec	CNRM	730
	CKWX	730		CHRC	880
Victoria	CNRV	1030		CKCI	880
	CFCT	630		CKCV	880
MANITOBA			St. Hyacinthe	CNRQ	880
Winnipeg	CKY	780		CKSH	1010
	CNRW	780	SASKATCHEWAN		
NEW BRUNSWICK			Fleming	CJRW	1010
Fredericton	CFNB	1210	Moose Jaw	CJRM	1010
Moncton	CNRA	630	Regina	CHWC	960
St. John	CFBO	890		CJBR	960
NOVA SCOTIA				CKCK	960
Halifax	CHNS	930	Saskatoon	CNRR	960
ONTARIO				CFQC	910
Bowmanville	CKGW	960	Yorkton	CJHS	910
Brantford	CKCR	1010		CNRS	910
Chatham	CFCO	1210	HAITI	CJGX	630
Cobalt	CKMC	1210	Port au Prince	HHK	830
Hamilton	CHCS	880	MEXICO		
	CHML	880	Chihuahua	CZF	970
	CKOC	880	Mazatlan	CYR	630
Iroquois Falls	CFCH	600	Merida	CYY	550
King Twp.	CFRB	960	Mexico City	CYA	1000
Kingston	CFMC	1120		CYB	1090
	CFRC	1120		CYH	800
London	CJGC	910		CYJ	750
Midland	CKPR	1120		CYL	750
Ottawa	CKCO	690		CYO	710
	CNRO	690		CYX	920
Prescott	CFLC	1010		CZE	860
Preston	CKPC	1210	Oaxaca	CYF	1130
Toronto	CFCA	840	Puebla	CYU	960
	CFCL	580	Tampico	CYQ	930
	CHNC	580	Torreón	CYM	1330
	CJBC	580	Vera Cruz	CYC	890
	CJBC	840	CUBA		
	CJBC	960	Cienfuegos	6BY	1150
	CJSC	580	Elia	7SR	860
	CKCL	580	Havana	PWX	750
	CKNC	580		2BB	1200
	CKOW	840		2LR	1280
	CNRT	840		2MG	1050
PRINCE EDWARD ISLAND				2OK	860
Charlottetown	CFCY	960		2OL	1170
	CHCK	960		2RK	950
Summerside	CHGS	1120	Tuinucu	2TW	1110
				2UF	1090
				6KW	880

IN STATUTE MILES

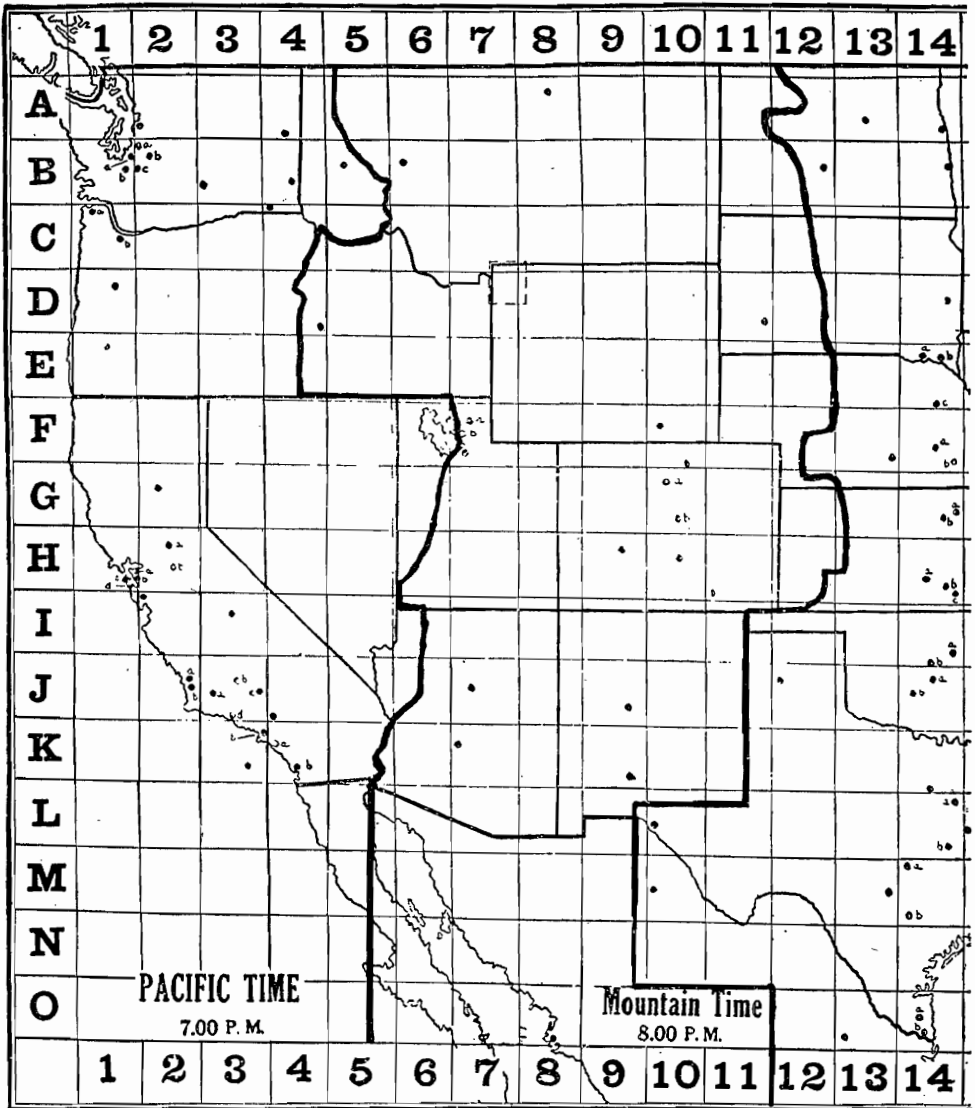
Table listing distances from various cities to the broadcast area. Columns include city names and numerical distances. The cities listed include Louisville, Memphis, Miami, Minneapolis, Kansas, Nashville, New Orleans, New York, Norfolk, Oklahoma, Omaha, Philadelphia, Phoenix, Pittsburgh, Portland, Portland, Richmond, St. Louis, Salt Lake City, San Francisco, Schenectady, Seattle, Shreveport, Spokane, Springfield, Vermilion, and Washington, D.C.

AND DIAL NUMBERS
71 70
Henry Field Seed Co.
Radio Corp. of America, Inc.

a descending scale depending upon whether your dials read right to left or left to right. You will now find that you can tell at a glance where to set your dials for those stations you have not received by noting the dial readings for the group before and the group after.

For instance if you desire to tune in WHAS which has a frequency of 650 keys, you will note in the illustration that it comes between 71-70 and 69-68 on the dials of the set used. Therefore if the dials of this set had been placed at 70-69 it would have been tuned to 650 keys, and if WHAS were on the air and in range of the set it would have been tuned in.

To identify stations received without waiting for the call letters, compare the dial reading with the dial readings already entered and this with the power of the station shown in the second column will enable you to name the station you are hearing.



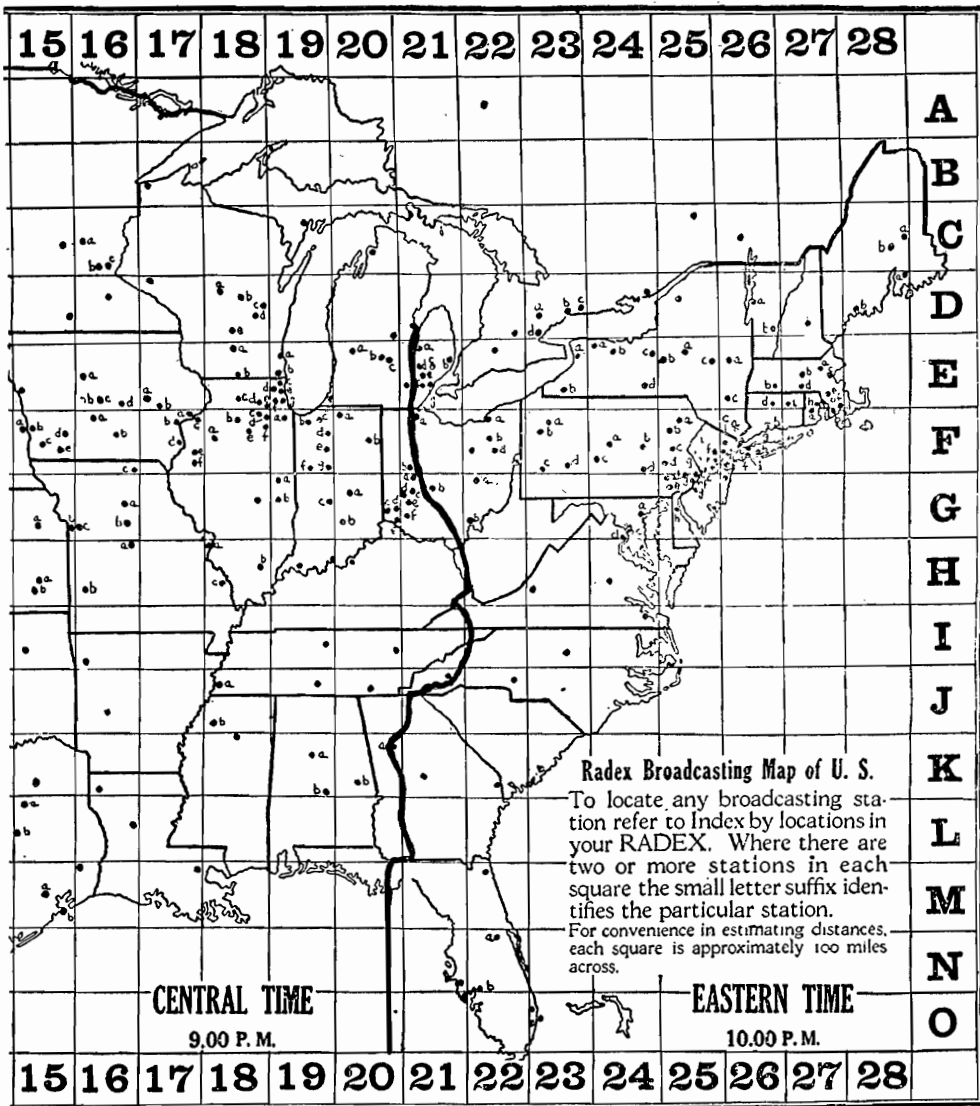
The Radex Press,
P. O. Box 143, Cleveland, Ohio.

Please enter my subscription for one year (six issues) for which I enclose \$1.00. Also send me the leatherette cover for which I enclose 50c. (Cross out if not wanted).

Write Name Plainly.....

Street and No.....

City and State.....



Radex Broadcasting Map of U. S.

To locate any broadcasting station refer to Index by locations in your RADEX. Where there are two or more stations in each square the small letter suffix identifies the particular station. For convenience in estimating distances, each square is approximately 100 miles across.

CENTRAL TIME
9.00 P.M.

EASTERN TIME
10.00 P.M.

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A COMPLETE INDEX BY CALL LETTERS

CFAC 690				CHYC 730			
Calgary, Alta.				Montreal, Que.			
CFBO 890				CJBC 580-840-960			
St. John, N. B.				Toronto, Ont.			
CFCA 840				CJBR 960			
Toronto, Ont.				Regina, Sask.			
CFCF 730				CJCA 580			
Montreal, Que.				Edmonton, Alta.			
CFCH 600				CJCJ 690			
Iroquois Falls, Ont.				Calgary, Alta.			
CFCL 580				CJGC 910			
Toronto, Ont.				London, Ont.			
CFCN 690				CJGX 630			
Calgary, Alta.				Yorkton, Sask.			
CFCO 1210				CJHS 910			
Chatham, Ont.				Saskatoon, Sask.			
CFCT 630				CJOC 1120			
Victoria, B. C.				Lethbridge, Alta.			
CFCY 960				CJOR 1030			
Charlottetown, P.E.I.				Sea Island, B. C.			
CFJC 1120				CJRM 1010			
Kamloops, B. C.				Moose Jaw, Sask.			
CFLC 1010				CJRW 1010			
Prescott, Ont.				Fleming, Sask.			
CFMC 1120				CJSC 580			
Kingston, Ont.				Toronto, Ont.			
CFNB 1210				CKAC 730			
Fredericton, N. B.				Montreal, Que.			
CFQC 910				CKCD 730			
Saskatoon, Sask.				Vancouver, B. C.			
CFRB 960				CKCI 880			
Twp. of King, Ont.				Quebec, Que.			
CFRC 1120				CKCK 960			
Kingston, Ont.				Regina, Sask.			
CHCA 690				CKCL 580			
Calgary, Alta.				Toronto, Ont.			
CHCK 960				CKCO 690			
Charlottetown, P.E.I.				Ottawa, Ont.			
CHCS 880				CKCR 1010			
Hamilton, Ont.				Brantford, Ont.			
CHCT 840				CKCV 880			
Red Deer, Alta.				Quebec, Que.			
CHGS 1120				CKFC 730			
Summerside, P. E. I.				Vancouver, B. C.			
CHLS 730				CKGW 960			
Vancouver, B. C.				Bowmanville, Ont.			
CHMA 580				CKLC 840			
Edmonton, Alta.				Red Deer, Alta.			
CHML 880				CKMC 1210			
Hamilton, Ont.				Cobalt, Ont.			
CHNC 580				CKMO 730			
Toronto, Ont.				Vancouver, B. C.			
CHNS 930				CKNC 580			
Halifax, N. S.				Toronto, Ont.			
CHRC 880				CKOC 880			
Quebec, Que.				Hamilton, Ont.			
CHWC 960				CKOW 840			
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CHWK 1210				CKPC 1210			
Chilliwack, B. C.				Preston, Ont.			

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CKPR	1120			CZE	860		
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CKSH	1010			CZF	970		
St. Hyacinthe, Que.				Chihuahua, Mex.			
CKUA	580			HHK	830		
Edmonton, Alta.				Port au Prince, Haiti			
CKWX	730			KDKA	950-980		
Vancouver, B. C.				Pittsburgh, Pa.			
CKY	780			KDLR	1300-1210		
Winnipeg, Man.				Devils Lake, N. D.			
CNRA	630			KDYL	1280-1230		
Moncton, N. B.				Salt Lake City			
CNRC	690			KEJK	1190-1250		
Calgary, Alta.				Los Angeles, Calif.			
CNRE	580			KELW	1310-780		
Edmonton, Alta.				Burbank, Calif.			
CNRM	730			KEX	1080-1180		
Montreal, Que.				Portland, Ore.			
CNRO	690			KFAB	940-770		
Ottawa, Ont.				Lincoln, Nebr.			
CNRQ	880			KFAD	930-620		
Quebec, Que.				Phoenix, Ariz.			
CNRR	960			KFAU	1050-1230		
Regina, Sask.				Boise, Idaho			
CNRS	910			KFBB	1090-1200		
Saskatoon, Sask.				Havre, Mont.			
CNRT	840			KFBK	1090-1310		
Toronto, Ont.				Sacramento, Calif.			
CNRV	1030			KFBL	1340-1500		
Vancouver, B. C.				Everett, Wash.			
CNRW	780			KFBU	620-600		
Winnipeg, Man.				Laramie, Wyo.			
CYA	1000			KFCB	1230-1310		
Mexico City				Phoenix, Ariz.			
CYB	1090			KFCR	1420-1500		
Mexico City				Santa Barbara, Calif.			
CYC	890			KFDM	620-550		
Vera Cruz, Mex.				Beaumont, Texas			
CYF	1130			KFDX	1270-1200		
Oaxaca, Mex.				Shreveport, La.			
CYH	800			KFDY	550-550		
Mexico City				Brookings, S. D.			
CYJ	750			KFEC	1400-1370		
Mexico City				Portland, Ore.			
CYL	750			KFEL	1320-1120		
Mexico City				Denver, Colo.			
CYM	1330			KFEQ	1300-1410		
Torreón, Mex.				St. Joseph, Mo.			
CYO	710			KFEY	1290-1370		
Mexico City				Kellogg, Idaho			
CYQ	930			KFGQ	1430-1310		
Tampico, Mex.				Boone, Iowa			
CYR	630			KFH	1220-1300		
Mazatlan, Mex.				Wichita, Kansas			
CYU	960			KFHA	1200-1200		
Puebla, Mex.				Gunnison, Colo.			
CYX	920			KFI	640-640		
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CYY	550			KFIF	1310-1420		
Merida, Mex.				Portland, Ore.			

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KFIZ 1120-1420 Fond du Lac, Wis.				KFRU 1200-630 Columbia, Mo.			
KFJB 1210-1200 Marshalltown, Iowa				KFSD 680-600 San Diego, Calif.			
KJFJ 1100-1470 Oklahoma City				KFSG 1190-1120 Los Angeles, Calif.			
KFJI 1200-1370 Astoria, Ore.				KFUL 1160-1290 Galveston, Texas			
KFJM 900-550 Grand Forks, N. D.				KFUM 620-1390 Colorado Spgs., Colo			
KFJR 1250-1300 Portland, Ore.				KFUO 550-550 St. Louis, Mo.			
KFJY 1290-1310 Fort Dodge, Iowa				KFUP 1320-1500 Denver, Colo.			
KFJZ 1200-1370 Ft. Worth, Texas				KFUR 1330-1310 Ogden, Utah			
KFKA 1200-1010 Greeley, Colo.				KFVD 1390-700 Culver City, Calif.			
KFKB 1240-1130 Milford, Kansas				KFVS 1340-1210 Cape Girardeau, Mo.			
KFKU 1180-1010 Lawrence, Kans.				KFWB 830-950 Los Angeles, Calif.			
KFKX 570-1000 Chicago, Ill.				KFWC 1210-1200 San Bernardino, Cal.			
KFKZ 1330-1210 Kirksville, Mo.				KFWF 1400-1200 St. Louis, Mo.			
KFLV 1120-1410 Rockford, Ill.				KFWI 1120-930 San Francisco, Calif.			
KFLX 1110-1210 Galveston, Texas				KFWM 1270-930 Oakland, Calif.			
KFMX 1270-1230 Northfield, Minn.				KFWO 1000-1500 Avalon, Calif.			
KFNF 650-890 Shenandoah, Iowa				KFXD 1470-1420 Jerome, Idaho			
KFOA 670-1280 Seattle, Wash.				KFXF 1060-1120 Denver, Colo.			
KFON 1240-1250 Long Beach, Calif.				KFXJ 1430-1500 Edgewater, Colo.			
KFOR 1380-1210 Lincoln, Nebr.				KFXR 1340-1310 Oklahoma City			
KFPL 1090-1370 Dublin, Texas				KFXY 1460-1420 Flagstaff, Ariz.			
KFPM 1300-1310 Greenville, Texas				KFYO 1420-1500 Breckenridge, Texas			
KFPW 1140-1340 Sulphur Spgs., Ark.				KFYR 1200-550 Bismarck, N. Dak.			
KFPY 1220-1210 Spokane, Wash.				KGA 1150-1470 Spokane, Wash.			
KFOB 900-1240 Ft. Worth Texas				KGAR 1280-1370 Tuscon, Ariz.			
KFOD 870-900 Anchorage, Alaska				KGB 1210-1340 San Diego, Calif.			
KFOU 1360-1500 Holy City, Calif.				KGBU 750-610 Ketchikan, Alaska			
KFOW 1380-1420 Seattle, Wash.				KGBX 1040-1210 St. Joseph, Mo.			

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KGBY 1350-930 Columbus, Nebr.					KGFK 1340-1200 Hallock, Minn.				
KGBZ 1410-930 York, Nebr.					KGFL 1350-1210 Raton, N. M.				
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KGCB 1390-1210 Oklahoma City					KGFX 1180-580 Pierre, S. Dak.				
KGCH 1020-930 Wayne, Nebr.					KGGF 1450-580 Picher, Okla.				
KGCI 1360-1370 San Antonio, Texas					KGGH 1410-1370 Cedar Grove, La.				
KGCN 1440-1420 Concordia, Kans.					KGGM 1470-1420 Albuquerque, N. M.				
KGCR 1440-1210 Brookings, S. Dak.					KGHA 1430-1200 Pueblo, Colo.				
KGCU 1250-1200 Mandan, N. Dak.					KGHB 1320-1320 Honolulu, Hawaii				
KGCX 1230-1370 Vida, Mont.					KGHD 1290-1420 Missoula, Mont.				
KGDA 1180-1210 Dell Rapids, S. D.					KGHF 1430-1320 Pueblo, Colo.				
KGDE 1460-1200 Barrett, Minn.					KGHG 1350-1370 McGehee, Ark.				
KGDM 1380-1150 Stockton, Calif.					KGHI 1150-1500 Little Rock, Ark.				
KGDP 1340-1210 Pueblo, Colo.					KGHL 1350-950 Billings, Mont.				
KGDR 1450-1500 San Antonio, Texas					KGHX 1500 Richmond, Texas				
KGDW 1020-930 Humboldt, Nebr.					KGJF 1080-1370 Little Rock, Ark.				
KGDY 1450-1200 Oldham, S. Dak.					KGKB 1070-1500 Goldthwaite, Texas				
KGEF 1140-1300 Los Angeles, Calif.					KGKL 1290-1370 San Angelo, Texas				
KGEK 1140-1200 Yuma, Colo.					KGKO 1370 Wichita Falls, Texas				
KGEN 1330-1200 El Centro, Calif.					KGO 780-790 Oakland, Calif.				
KGEO 1460-930 Grand Island, Nebr.					KGRC 1360-1310 San Antonio, Texas				
KGER 1390-1370 Long Beach, Calif.					KGRS 1230-1410 Amarillo, Texas				
KGES 1470-930 Central City, Nebr.					KGTT 1360-1500 San Francisco, Calif.				
KGEW 1370-1200 Fort Morgan, Colo.					KGU 1110-940 Honolulu, Hawaii				
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THE RADIO EYE

When a policeman in Detroit, Michigan, receives a long distance call from some person in Cleveland, Ohio, advising him that murder is being done in the Detroit river, said policeman has every right in the world to think he is being "spoofed."

Believe it or not, but less than three minutes after five men had started a battle among themselves in a small boat off Belle Isle, Detroit police received a long distance call from Cleveland telling them about it.

"What?" gasped the desk sergeant at police headquarters last night, clamping the receiver more tightly to his ears.

"I'm telling you that five men in a boat are fighting off the head of Belle Isle," repeated the voice nearly 200

miles away, patiently, and added: "One was just thrown overboard."

"Cut the comedy," snapped the indignant sergeant.

"It isn't comedy, sergeant. This is a commercial radio station at Cleveland speaking. The steamer Taylor is passing Belle Isle now and the wireless operator aboard is watching the fight and sending out a broadcast for police."

Boats from the harbor-master's headquarters and federal prohibition patrols rushed out and found the five men; one was dripping wet.

"Just a friendly scuffle," they said.

"How come you knew about it?"

"A guy in Cleveland called up a few minutes ago and said you had a falling out," explained the harbor-master gently.

INDEX BY NEW FREQUENCIES AND DIAL NUMBERS

550 kilocycles 545.1 meters

KFDM	500	Beaumont, Texas
KFDY	500	Brookings, S. Dak.
KFJM	500	Grand Forks, N. Dak.
KFUO	500	St. Louis, Mo.
KFYR	500	Bismarck, N. Dak.
KPRC	1000	Houston, Texas
KSD	500	St. Louis, Mo.
WGR	750	Buffalo, N. Y.
WKRC	500	Cincinnati, Ohio
WSYR	500	Syracuse, N. Y.

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Magnolia Petroleum Co.
State College
University of North Dakota
Concordia Theological Seminary
Hoskins-Meyer
Houston Printing Co.
Pultizer Publishing Co.
Federal Radio Corp.
Kodel Radio Corp.
Clive B. Meredith

560 kilocycles 535.4 meters

KICK	100	Red Oak, Iowa
KLZ	1000	Denver, Colo.
KVOO	1000	Tulsa, Okla.
WFI	500	Philadelphia, Pa.
WFLA	1000	Clearwater, Fla.
WIAS	100	Ottumwa, Iowa
WLIT	500	Philadelphia, Pa.
WMBF	500	Miami Beach, Fla.
WNOX	1000	Knoxville, Tenn.
WSUN	1000	St. Petersburg, Fla.

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Atlantic AutoCo.
Reynolds Radio Co., Inc.
Southwestern Sales Corp.
Strawbridge & Clothier
Chamber of Commerce
Poling Electric Co.
Lit Brothers
Fleetwood Hotel Corp.
Sterchi Bros.
Chamber of Commerce

570 kilocycles 526.0 meters

KMTR	1000	Hollywood, Calif.
KPLA	1000	Los Angeles, Calif.
KVOS	250	Bellingham, Wash.
KWSC	500	Pullman, Wash.
KXA	500	Seattle, Wash.
WHA	750	Madison, Wis.
WLBZ	250	Dover-Foxcroft, Me.
WMCA	500	New York City
WNYC	500	New York City
WSMK	200	Dayton, Ohio
WTMJ	1000	Milwaukee, Wis.
WWNC	1000	Asheville, N. C.

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KMTR Radio Corporation
Pacific Development Radio Co.
L. Kessler
State College
American Radio Tel. Co.
University of Wisconsin
Thompson L. Guernsey
Greeley Square Hotel Co.
Dept. of Plants and Structures
Stanley M. Krohn, Jr.
Milwaukee, Journal
Chamber of Commerce

580 kilocycles 516.9 meters

KGFX	200	Pierre, S. Dak.
KGGF	500	Picher, Okla.
WKAQ	500	San Juan, P. R.
WNAD	500	Norman, Okla.
WOBU	250	Charleston, W. Va.
WSAZ	250	Huntington, W. Va.
WTAG	250	Worcester, Mass.

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Dana McNeil
Dr. D. L. Connoll
Radio Corp. of Porto Rico
University of Oklahoma
Charleston Radio Brdcstg. Co.
McKellar Electric Co.
Telegram Publishing Co.

590 kilocycles 508.2 meters

KGW	1000	Portland, Ore.
WCAJ	500	Lincoln, Nebr.
WEEI	500	Boston, Mass.
WJAG	500	Norfolk, Nebr.
WOW	1000	Omaha, Nebr.

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Oregonian Publishing Co.
Nebraska Wesleyan University
Edison Elec. Illuminating Co.
Norfolk Daily News
Woodmen of the World

600 kilocycles 499.7 meters

KFBU	500	Laramie, Wyo.
KFSD	500	San Diego, Calif.
WCAO	250	Baltimore, Md.
WEBW	250	Beloit, Wis.
WOAN	500	Lawrenceburg, Tenn.
WREC	500	Memphis, Tenn.

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Bishop N. S. Thomas
Airfan Radio Corp.
Monumental Radio Co., Inc.
Beloit College
Vaughan School of Music
WREC, Inc.

610 kilocycles 491.5 meters

KFRG	1000	San Francisco, Calif.
KGBU	500	Ketchikan, Alaska
WDAF	1000	Kansas City, Mo.
WFAN	500	Philadelphia, Pa.
WTP	500	Philadelphia, Pa.
WQQ	1000	Kansas City, Mo.

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Don Lee, Inc.
Alaska Radio & Service Co.
Kansas City Star Co.
Keystone Broadcasting Co., Inc.
Gimbel Bros., Inc.
Unity School of Christianity

INDEX BY NEW FREQUENCIES AND DIAL NUMBERS

620 kilocycles 483.6 meters

KFAD 500 Phoenix, Ariz.
 KOMO 1000 Seattle, Wash.
 WCFL 1000 Chicago, Ill.
 WDAE 1000 Tampa, Fla.
 WDBO 1000 Orlando, Fla.
 WJJD 1000 Mooseheart, Ill.
 WRM 500 Urbana, Ill.

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Electrical Equipment Co.
 Fisher's Blend Station
 Federation of Labor
 Tampa Publishing Co.
 Rollins College, Inc.
 Loyalty Order of Moose
 University of Illinois

630 kilocycles 475.9 meters

KFRU 500 Columbia, Mo.
 WDEL 250 Wilmington, Del.
 WGBF 500 Evansville, Ind.
 WMAL 250 Washington, D. C.
 WOS 500 Jefferson City, Mo.

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Stephens College
 WDEL, Inc.
 Evansville on the Air, Inc.
 M. A. Leese Co.
 State Marketing Bureau

640 kilocycles 468.5 meters

KFI 5000 Los Angeles, Calif.
 WAIU 5000 Columbus, Ohio
 WEO 750 Columbus, Ohio

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Earle C. Anthony, Inc.
 American Insurance Union
 State University of Ohio

650 kilocycles 461.3 meters

WSM 5000 Nashville, Tenn.

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National Life & Accident Ins. Co.

660 kilocycles 454.3 meters

WAAW 500 Omaha, Nebr.
 WEAF 50000 New York City

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Omaha Grain Exchange
 National Broadcasting Co., Inc.

670 kilocycles 447.5 meters

WMAQ 5000 Chicago, Ill.

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Chicago Daily News, Inc.

680 kilocycles 440.9 meters

KPO 5000 San Francisco, Calif.
 WEMC 1000 Berrien Springs, Mich.

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Hale Bros. and The Chronicle
 Emmanuel Missionary College

700 kilocycles 428.3 meters

KFVD 250 Culver City, Calif.
 WLW 5000 Cincinnati, Ohio
 WSAI 5000 Cincinnati, Ohio

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W. J. & C. I. McWhinnie
 Crosley Radio Corp.
 Crosley Radio Corp., Lessee

710 kilocycles 422.3 meters

WOR 5000 Newark, N. J.

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L. Bamberger & Co.

720 kilocycles 416.4 meters

WGN 15000 Chicago, Ill.
 WLIB 15000 Chicago, Ill.

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Chicago Tribune
 Liberty Weekly, Inc.

740 kilocycles 405.2 meters

KMMJ 1000 Clay Center, Nebr.
 WSB 1000 Atlanta, Ga.

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The M. M. Johnson Co.
 Atlanta Journal Co.

750 kilocycles 399.8 meters

WCX 5000 Detroit, Mich.
 WJR 5000 Detroit, Mich.

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Detroit Free Press
 WJR, Inc.

760 kilocycles 394.5 meters

WEW 1000 St. Louis, Mo.
 WJZ 30000 New York City

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St. Louis University
 Radio Corp. of America, Inc.

INDEX BY NEW FREQUENCIES AND DIAL NUMBERS

770 kilocycles 389.4 meters

KFAB 5000 Lincoln, Nebr.
 WBBM 10000 Chicago, Ill.
 WJBT 500 Chicago, Ill.

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Nebr. Buick Automobile Co.
 Atlas Investment Co.
 J. S. Boyd, Inc.

780 kilocycles 384.4 meters

KELW 500 Burbank, Calif.
 KNRC 500 Santa Monica, Calif.
 WBSO 100 Wellesley Hills, Mass.
 WMC 500 Memphis, Tenn.
 WPOR 500 Norfolk, Va.
 WSEA 500 Portsmouth, Va.
 WTAR 500 Norfolk, Va.

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Earl L. White
 Pickwick Brdcstg. Corp.
 Babson's Statistical Organization.
 Memphis Commercial-Appeal
 Reliance Electric Co.
 Virginia Beach Brdcstg. Co.
 Reliance Electric Co., Inc.

790 kilocycles 379.5 meters

KGO 10000 Oakland, Calif.
 WGY 50000 Schenectady, N. Y.

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General Electric Co.
 General Electric Co.

800 kilocycles 374.8 meters

KTHS 5000 Hot Springs, Ark.
 WBAP 5000 Fort Worth, Texas

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Arlington Hotel Co.
 Carter Publications, Inc.

810 kilocycles 370.2 meters

WCCO 10000 Minneapolis-St. Paul
 WPCB 500 Jersey City, N. J.

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Washburn Crosby Co.
 Concourse Radio Corp.

820 kilocycles 365.6 meters

WWJ 1000 Detroit, Mich.

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The Detroit News

830 kilocycles 361.2 meters

KOA 12500 Denver, Colo.

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General Electric Co.

850 kilocycles 352.7 meters

KFOZ 250 Hollywood, Calif.
 KWKH 5000 Shreveport, La.
 WWL 5000 New Orleans, La.

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Taft Radio & Brdcstg. Co.
 W. K. Henderson
 Loyola University

860 kilocycles 348.6 meters

WABC 5000 New York City
 WBOQ 5000 New York City

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Atlantic Broadcasting Corp.
 Atlantic Broadcasting Corp.

870 kilocycles 344.6 meters

WENR 5000 Chicago, Ill.
 WLS 5000 Chicago, Ill.

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Great Lakes Brdcstg. Co.
 Sears, Roebuck & Co.

880 kilocycles 340.7 meters

WCOC 500 Columbus, Miss.
 WGBI 250 Scranton, Pa.
 WQAN 250 Scranton, Pa.

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Crystal Oil Co.
 Scranton Broadcasters, Inc.
 Scranton Times

890 kilocycles 336.9 meters

KFNF 500 Shenandoah, Iowa
 KUSD 500 Vermillion, S. Dak.
 WGST 500 Atlanta, Ga.
 WJAR 250 Providence, R. I.
 WMAZ 500 Macon, Ga.
 WNAX 500 Yankton, S. Dak.

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Henry Field Seed Co.
 University of South Dakota
 Georgia School of Technology
 The Outlet Co.
 Mercer University
 Dakota Radio Apparatus Co.

INDEX BY NEW FREQUENCIES AND DIAL NUMBERS

900 kilocycles 333.1 meters

KFQD 100 Anchorage, Alaska
 KHJ 1000 Los Angeles, Calif.
 WFBL 750 Syracuse, N. Y.
 WKY 1000 Oklahoma City
 WLBL 1000 Stevens Point, W
 WMAK 750 Buffalo, N. Y.

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Anchorage Radio Club
 Don Lee, Inc.
 The Onondaga Co., Inc.
 WKY Radiophone Co.
 Wisconsin Dept. of Markets
 WMAK Brdctg. Station, Inc.

920 kilocycles 325.9 meters

KHO 1000 Spokane, Wash.
 KUOM 500 Missoula, Mont.
 WFBM 1000 Indianapolis, Ind.
 WSBT 500 South Bend, Ind.

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Louis Wasmer, Inc.
 State University of Montana
 Indianapolis Power & Light Co.
 South Bend Tribune

930 kilocycles 322.4 meters

KFWI 500 San Francisco, Calif.
 KFWM 500 Oakland, Calif.
 KGBY 500 Columbus, Nebr.
 KGBZ 500 York, Nebr.
 KGCH 500 Wayne, Nebr.
 KGDW 500 Humboldt, Nebr.
 KGEO 500 Grand Island, Nebr.
 KGES 500 Central City, Nebr.
 KMA 500 Shenandoah, Iowa
 WBRC 500 Birmingham, Ala.
 WDBJ 250 Roanoke, Va.
 WIBG 50 Elkins Park, Pa.
 WRBX 250 Roanoke, Va.

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Radio Entertainments, Inc.
 Oakland Educational Society
 Ervin Taddiken
 Federal Live Stock Remedy Co.
 Farmers & Merchants Radio Corp.
 Frank J. Rist
 Hotel Yancey
 Central Radio Electric Co.
 May Seed & Nursery Co.
 Birmingham Broadcasting Co.
 Richardson-Wayland Elec. Corp.
 St. Pauls P. E. Church
 Richmond Development Corp.

940 kilocycles 319.0 meters

KGU 500 Honolulu, Hawaii
 KOIN 1000 Portland, Ore.
 WAAF 500 Chicago, Ill.
 WCSH 500 Portland, Maine
 WFIW 1000 Hopkinsville, Ky.

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Marion A. Mulrony
 KOIN, Inc.
 Drivers Journal Pub. Co.
 Congress Square Hotel Co.
 The Acme Mills, Inc.

950 kilocycles 315.6 meters

KFWB 1000 Los Angeles, Calif.
 KGHL 500 Billings, Mont.
 KLDS 1000 Independence, Mo.
 KMBG 1000 Independence, Mo.
 KPSN 1000 Pasadena, Calif.
 WHB 1000 Kansas City, Mo.
 WRC 500 Washington, D. C.

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Warner Bros. Broadcasting Corp.
 Northwestern Auto Supply Co.
 Church of Latter Day Saints
 Midland Broadcasting Co.
 Pasadena Star-News
 Sweeney Automobile School
 Radio Corp. of America

970 kilocycles 309.1 meters

KJR 5000 Seattle, Wash.
 WOC 5000 Davenport, Iowa
 WSUI 500 Iowa City, Iowa

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Northwest Radio Service Co.
 Palmer School of Chiropractic
 State University of Iowa

980 kilocycles 305.9 meters

KDKA 50000 Pittsburgh, Pa.

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Westinghouse Elec. & Mfg. Co.

990 kilocycles 302.8 meters

KSOO 1000 Sioux Falls, S. Dak.
 WBZ 15000 Springfield, Mass.
 WBZA 500 Boston, Mass.

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Sioux Falls Broadcast Assn.
 Westinghouse Elec. & Mfg. Co.
 Westinghouse Elec. & Mfg. Co.

1000 kilocycles 299.8 meters

KFKX 5000 Chicago, Ill.
 KGFH 250 Glendale, Calif.
 KYW 5000 Chicago, Ill.
 WEBH 5000 Chicago, Ill.

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Westinghouse Elec. & Mfg. Co.
 Frederick Robinson
 Westinghouse Elec. & Mfg. Co.
 Edgewater Beach Hotel Co.

INDEX BY NEW FREQUENCIES AND DIAL NUMBERS

1010 kilocycles 296.9 meters

KFKA 500 Greeley, Colo.
 KFKU 500 Lawrence, Kans.
 KPOF 500 Denver, Colo.
 KOW 500 San Jose, Calif.
 KRGV 500 Harlingen, Texas
 KSAC 500 Manhattan, Kansas
 KWWG 500 Brownsville, Texas
 WHN 250 New York City
 WPAP 250 Cliffsade, N. J.
 WQAO 250 Cliffsade, N. J.
 WREN 500 Lawrence, Kansas
 WRNY 250 New York City

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State Teachers College
 University of Kansas
 Pillar of Fire, Inc.
 First Baptist Church
 Harlingen Music Co.
 State Agricultural College
 Chamber of Commerce
 George Schubel
 Palisades Amusement Park
 Galvary Baptist Church
 Jenny Wren Co.
 Experimenter Publishing Co.

1020 kilocycles 293.9 meters

WHAS 5000 Louisville, Ky.
 WWVA 5000 Wheeling, W. Va.

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Courier-Journal and Times
 West Va. Brdcastg. Corp.

1040 kilocycles 288.3 meters

KRLD 10000 Dallas, Texas
 WFAA 5000 Dallas, Texas
 WKAR 500 East Lansing, Mich.

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KRLD, Inc.
 Dallas Morning News
 Michigan Agricultural College

1050 kilocycles 285.5 meters

KNX 5000 Hollywood, Calif.
 WHO 5000 Des Moines, Iowa
 WOI 5000 Ames, Iowa

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Western Broadcast Co.
 Bankers Life Co.
 Iowa State College

1060 kilocycles 282.8 meters

WBAL 5000 Baltimore, Md.
 WTIC 5000 Hartford, Conn.

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Cons. Gas, Elec. Lt. & Power Co.
 Travelers Insurance Co.

1070 kilocycles 280.2 meters

WCAZ 100 Carthage, Ill.
 WDZ 100 Tuscola, Ill.
 WEAR 1000 Cleveland, Ohio
 WTAM 3500 Cleveland, Ohio

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Carthage, College
 James L. Bush
 WTAM and WEAR, Inc.
 WTAM and WEAR, Inc.

1080 kilocycles 277.6 meters

WBT 5000 Charlotte, N. C.
 WPTF 5000 Raleigh, N. C.

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C. C. Coddington
 Durham Life Insurance Co.

1090 kilocycles 275.1 meters

KMOX 5000 St. Louis, Mo.

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Voice of St. Louis

1100 kilocycles 272.6 meters

WLWL 5000 New York City
 WPG 5000 Atlantic City, N. J.

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Missionary Society of St. Paul
 Municipality of Atlantic City

1110 kilocycles 270.1 meters

WRVA 5000 Richmond, Va.

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Larus & Bros. Co., Inc.

1120 kilocycles 267.7 meters

KFEL 250 Denver, Colo.
 KFSG 500 Los Angeles, Calif.
 KFXF 250 Denver, Colo.
 KMIC 500 Inglewood, Calif.
 KRSC 50 Seattle, Wash.
 KUT 50 Austin, Texas
 WBAK 500 Harrisburg, Pa.
 WBAO 100 Decatur, Ill.
 WCOA 500 Pensacola, Fla.
 WFBR 250 Baltimore, Md.
 WHAD 250 Milwaukee, Wis.
 WISN 250 Milwaukee, Wis.
 WTAW 500 College Station, Texas

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Eugene P. O'Fallon, Inc.
 Echo Park Evang. Assn.
 Pikes Peak Brdcastg. Co.
 James R. Fouch
 Radio Sales Corp.
 University of Texas
 Penna. State Police
 James Millikin University
 City of Pensacola
 Baltimore Radio Shop
 Marquette University
 Evening Wisconsin Co.
 Agricultural & Mech. College

INDEX BY NEW FREQUENCIES AND DIAL NUMBERS

1130 kilocycles 265.3 meters

KFKB 5000 Milford, Kansas
KSL 5000 Salt Lake City
WOV 1000 Secaucus, N. J.

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Dr. J. R. Brinkley
Radio Service Corp. of Utah
International Brdcstg. Corp.

1140 kilocycles 263.0 meters

WAPI 5000 Auburn, Ala.
WJAX 1000 Jacksonville, Fla.

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Alabama Polytechnic Institute
City of Jacksonville

1150 kilocycles 260.7 meters

KGDM 50 Stockton, Calif.
WHAM 5000 Rochester, N. Y.

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E. F. Pepper
Stromberg-Carlson Tel. Mfg. Co.

1160 kilocycles 258.5 meters

KTNT 5000 Muscatine, Iowa
WCBD 5000 Zion, Ills.
WEAN 500 Providence, R. I.
WMBI 5000 Chicago, Ill.
WOWO 5000 Fort Wayne, Ind.

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Norman Baker
Wilbur Glenn Voliva
The Shepard Stores
Moody Bible Institute
Main Auto Supply Co.

1170 kilocycles 256.3 meters

WCAU 5000 Philadelphia, Pa.

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Universal Broadcasting Co.

1180 kilocycles 254.1 meters

KEX 5000 Portland, Ore.
KOB 5000 State College, N. M.
WGBS 500 New York City

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Western Broadcasting Co.
College of Agriculture
Gimbel Bros., Inc.

1190 kilocycles 252.0 meters

WOAI 5000 San Antonio, Texas
WRR 5000 Dallas, Texas

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Southern Equipment Co.
City of Dallas

1200 kilocycles 249.9 meters

KFBB 100 Havre, Mont.
KFDX 100 Shreveport, La.
KFHA 50 Gunnison, Colo.
KFJB 100 Marshalltown, Iowa
KFWC 100 Ontario, Calif.
KFWF 100 St. Louis, Mo.
KGCU 100 Mandan, N. Dak.
KGDE 50 Barrett, Minn.
KGDY 15 Oldham, S. Dak.
KGEK 50 Yuma, Colo.
KGEN 100 El Centro, Calif.
KGEW 100 Fort Morgan, Colo.
KGFK 50 Hallock, Minn.
KGHA 50 Pueblo, Colo.
KMJ 100 Fresno, Calif.
KPPC 50 Pasadena, Calif.
KRMD 50 Shreveport, La.
KSMR 100 Santa Maria, Calif.
WABI 100 Bangor, Maine
WABZ 50 New Orleans, La.
WBBW 100 Norfolk, Va.
WBBY 75 Charleston, S. C.
WBBZ 100 Ponca City, Okla.
WCAT 100 Rapid City, S. Dak.
WCAX 100 Burlington, Vt.
WCLO 100 Kenosha, Wis.
WEPS 100 Gloucester, Mass.
WFBC 50 Knoxville, Tenn.
WFBE 100 Cincinnati, Ohio
WHBC 10 Canton, Ohio
WHBY 50 West De Pere, Wis.
WIBR 50 Steubenville, Ohio
WJAM 100 Waterloo, Iowa
WJBC 100 La Salle, Ill.
WJBL 100 Decatur, Ill.
WJBW 30 New Orleans, La.
WKBE 100 Webster, Mass.
WLAP 30 Louisville, Ky.

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F. A. Buttrey Co.
First Baptist Church
Western College of Colorado
Marshall Electric Co.
James R. Fouch
St. Louis Truth Center, Inc.
Mandan Radio Association
Jaren Drug Co.
J. Albert Loesch
Beehler Elec. Equipment Co.
E. R. Irey and F. M. Bowles
City of Fort Morgan
Kittson County Enterprise
Geo. H. Sweeney and N. S. Walpole
The Fresno Bee
Pasadena Presbyterian Church
Robert M. Dean
Santa Maria Valley R. R. Co.
First Universalist Church
Coliseum Place Baptist Church
Ruffner Junior High School
Washington Light Infantry
C. L. Carrell
State School of Mines
University of Vermont
C. E. Whitmore
Matheson Radio Co., Inc.
First Baptist Church
Park View Hotel
St. John's Catholic Church
St. Norbert's College
Thurman A. Owings
Waterloo Broadcasting Co.
Hummer Furniture Co.
Wm. Gushard Dry Goods Co.
Charles C. Carlson, Jr.
K. & B. Electric Co.
American Brdcstg. Corp. of Ky.

INDEX BY NEW FREQUENCIES AND DIAL NUMBERS

WLBF	100	Kansas City, Mo.
WLBC	100	Petersburg, Va.
WMAY	100	St. Louis, Mo.
WNBO	15	Washington, Pa.
WNBW	5	Carbondale, Pa.
WNBX	10	Springfield, Vt.
WPRC	100	Harrisburg, Pa.
WOBJ	65	Clarksburg, W. Va.
WOBZ	60	Weirton, W. Va.
WRAF	100	La Porte, Ind.
WRBL	50	Columbus, Ga.
WRBQ	100	Greenville, Miss.
WRJN	100	Racine, Wis.
WWAE	100	Hammond, Ind.

1210 kilocycles 247.8 meters

KDLR	100	Devils Lake, N. Dak.
KFKZ	50	Kirksville, Mo.
KFLX	100	Galveston, Texas
KFOR	100	Lincoln, Nebr.
KFPV	100	Spokane, Wash.
KFVS	50	Cape Girardeau, Mo.
KGBX	100	St. Joseph, Mo.
KCCB	50	Enid, Okla.
KGCR	10	Brookings, S. Dak.
KGDA	15	Dell Rapids, S. Dak.
KGDP	10	Pueblo, Colo.
KGFL	50	Raton, N. M.
KPCB	100	Seattle, Wash.
KPO	100	Seattle, Wash.
KTAP	100	San Antonio, Texas
KXRO	50	Aberdeen, Wash.
WBAX	100	Wilkes-Barre, Pa.
WCBS	100	Springfield, Ill.
WCOH	100	Greenville, N. Y.
WCRW	100	Chicago, Ill.
WEBE	10	Cambridge, Ohio
WEBO	50	Harrisburg, Ill.
WEDC	100	Chicago, Ill.
WGBB	100	Freeport, N. Y.
WHBF	100	Rock Island, Ill.
WHBU	100	Anderson, Ind.
WIBA	100	Madison, Wis.
WINR	100	Bay Shore, N. Y.
WJBI	100	Red Bank, N. J.
WJBU	100	Lewisburg, Pa.
WJBY	50	Gadsden, Ala.
WLBY	100	Mansfield, Ohio
WLCI	50	Ithaca, N. Y.
WMAN	50	Columbus, Ohio
WMBG	100	Richmond, Va.
WMBH	100	Joplin, Mo.
WMBR	100	Tampa, Fla.
WOCL	25	Jamestown, N. Y.
WOMT	100	Manitowoc, Wis.
WQBC	100	Utica, Miss.
WRBU	50	Gastonia, N. C.
WSBC	100	Chicago, Ill.
WSIX	100	Springfield, Tenn.
WTAX	50	Streator, Ill.
WTAZ	15	Richmond, Va.

1220 kilocycles 245.8 meters

KFIO	100	Spokane, Wash.
KYA	1000	San Francisco, Calif.
WCAD	500	Canton, N. Y.
WGHP	750	Detroit, Mich.

1230 kilocycles 243.8 meters

KDYL	1000	Salt Lake City
KFAU	1000	Boise, Idaho
KFMX	1000	Northfield, Minn.
WBIS	500	Boston, Mass.
WCAL	1000	Northfield, Minn.
WGMS	1000	St. Paul-Minneapolis
WLB	1000	Minneapolis, Minn.
WNAC	500	Boston, Mass.
WPSC	500	State College, Pa.
WRHM	1000	Minneapolis, Minn.

Everett L. Dillard
Robert Allen Gamble
Kingshighway Pres. Church
John Brownlee Spriggs
Home Cut Glass & China Co.
First Congregational Church
Wilson Printing & Radio Co.
John Raikes
J. H. Thompson
The Radio Club, Inc.
R. E. Martin
J. Pat Scully
Racine Broadcasting Corp.
Dr. George F. Courier

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Radio Electric Co.
State Teachers College
George Roy Clough
Howard A. Shuman
Symons Investment Co.
Hirsch Battery & Radio Co.
Foster-Hall Tire Co.
Wallace Radio Institute
Cutler's Radio Brdcastg. Service
Home Auto Co.
Boy Scouts of America
N. L. Cotter
Pacific Coast Biscuit Co.
Archie Taft and Louis Wasmer
Robert B. Bridge
KXRO, Inc.
John H. Stenger, Jr.
H. L. Dewing and Chas. Messter
Westchester Brdcastg. Corp.
Clinton R. White
Roy W. Waller
Tate Radio Co.
Emil Denemark, Inc.
Harry H. Carman
Bearsley Specialty Co.
Citizens Bank
Capital Times-Strand Theatre
Radiotel Mfg. Co., Inc.
Robert S. Johnson
Bucknell University
Electric Construction Co.
Mansfield Broadcasting Assn.
Lutheran Assn. of Ithaca
W. E. Heskitt
Havens & Martin, Inc.
Edwin Dudley Aber
F. J. Reynolds
A. E. Newton
Mikadow Theatre
Utica Chamber of Commerce
A. J. Kirby Music Co.
World Battery Co., Inc.
638 Tire & Vulcanizing Co.
Williams Hardware Co.
W. Reynolds and T. J. McGuire

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North Central High School
Pacific Broadcasting Corp.
St. Lawrence University
George Harrison Phelps, Inc.

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Intermountain Brdcastg. Corp.
Independent School District
Carleton College
The Shepard Stores
St. Olaf College
Washburn-Crosby Co.
University of Minnesota
The Shepard Stores
Penna. State College
Rosedale Hospital Co., Inc.

INDEX BY NEW FREQUENCIES AND DIAL NUMBERS

1240 kilocycles 241.8 meters

KFOB 1000 Ft. Worth, Texas
 WCAE 500 Pittsburgh, Pa.
 WIOD 1000 Miami Beach, Fla.
 WJAD 1000 Waco, Texas
 WQAM 750 Miami, Fla.
 WRBC 500 Valparaiso, Ind.

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W. B. Fishburn, Inc.
 Gimbel Bros., Inc.
 Isle of Dreams Brdcstg. Co.
 Frank P. Jackson
 Electrical Equipment Co.
 Immanuel Lutheran Church

1250 kilocycles 239.9 meters

KEJK 500 Los Angeles, Calif.
 KFON 1000 Long Beach, Calif.
 KLRA 1000 Little Rock, Ark.
 KOAC 1000 Corvallis, Ore.
 KUOA 1000 Fayetteville, Ark.
 KXL 500 Portland, Ore.
 WAAM 500 Newark, N. J.
 WGCP 250 Newark, N. J.
 WODA 1000 Paterson, N. J.

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R. S. MacMillan
 Nichols & Warinner, Inc.
 Arkansas Broadcasting Co.
 State Agricultural College
 University of Arkansas
 KXL Broadcasters
 WAAM, Inc.
 May Radio Broadcast Corp.
 Richard E. O'Dea

1260 kilocycles 238.0 meters

KOIL 1000 Council Bluffs, Iowa
 WLWB 500 Oil City, Pa.

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Mona Motor Oil Co.
 Petroleum Telephone Co.

1270 kilocycles 236.1 meters

KGCA 50 Decorah, Iowa
 KLX 500 Oakland, Calif.
 KTAB 500 Oakland, Calif.
 KWLC 50 Decorah, Iowa
 WASH 250 Grand Rapids, Mich.
 WDSU 1000 New Orleans, La.
 WOOD 500 Grand Rapids, Mich.
 WRHF 150 Washington, D. C.

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Charles W. Greenley
 Tribune Publishing Co.
 Associated Broadcasters
 Luther College
 Baxter Laundries, Inc.
 Uhalt Radio
 Walter B. Stiles, Inc.
 American Broadcasting Co.

1280 kilocycles 234.2 meters

KFOA 1000 Seattle, Wash.
 KTW 1000 Seattle, Wash.
 WCAM 500 Camden, N. J.
 WCAP 500 Asbury Park, N. J.
 WDAY 1000 Fargo, N. Dak.
 WDOD 1000 Chattanooga, Tenn.
 WEBC 1000 Superior, Wis.
 WOAX 500 Trenton, N. J.

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Rhodes Department Store
 First Presbyterian Church
 City of Camden
 Radio Industries Broadcast Co.
 WDAY, Inc.
 Chattanooga Radio Co., Inc.
 Head of Lakes Brdcstg. Co.
 Franklyn J. Wolff

1290 kilocycles 232.4 meters

KFUL 500 Galveston, Texas
 KLCN 50 Blytheville, Ark.
 K TSA 1000 San Antonio, Texas
 WJAS 500 Pittsburgh, Pa.
 WNBZ 10 Saranac Lake, N. Y.

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Will H. Ford
 Daily Courier-News
 Alamo Broadcast Co.
 Pittsburgh Radio Supply House
 Smith & Mace

1300 kilocycles 230.6 meters

KFH 500 Wichita, Kansas
 KFJR 500 Portland, Ore.
 KGEF 1000 Los Angeles, Calif.
 KTBI 1000 Los Angeles, Calif.
 KTBR 500 Portland, Ore.
 WBBR 1000 Roosevelt, N. Y.
 WEVD 500 Woodhaven, N. Y.
 WHAP 1000 New York City
 WHAZ 500 Troy, N. Y.
 WIBW 1000 Topeka, Kansas

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Hotel Lassen
 Ashley C. Dixon & Son
 Trinity Methodist Church
 Bible Institute of Los Angeles
 M. E. Brown
 Peoples Pulpit Association
 Eugene V. Debs Memorial Fund
 Defenders of Truth Society, Inc.
 Rensselaer Polytechnic Institute
 C. L. Carrell

1310 kilocycles 228.9 meters

KFBK 100 Sacramento, Calif.
 KFCB 100 Phoenix, Ariz.
 KFGQ 10 Boone, Iowa

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Kimball-Upson Co.
 Nielson Radio Supply Co.
 Boone Biblical College

INDEX BY NEW FREQUENCIES AND DIAL NUMBERS

KFUJ	10	Juneau, Alaska	Alaska Elec. Light & Power Co.
KFJY	100	Fort Dodge, Iowa	C. S. Tunwall
KFPM	15	Greenville, Texas	The New Furniture Co.
KFUR	50	Ogden, Utah	Peery Building Co.
KFXR	50	Oklahoma City	Exchange Ave. Baptist Church
KGEZ	100	Kalispell, Mont.	Flathead Brdcastg. Assn.
KGFI	15	San Angelo, Texas	San Angelo Broadcasting Co.
KGRC	100	San Antonio, Texas	Eugene Roth
KWCR	100	Cedar Rapids, Iowa	H. E. Paar
WABY	50	Philadelphia, Pa.	John Magaldi, Jr.
WAGM	50	Royal Oak, Mich.	Robert L. Miller
WBES	100	Salisbury, Md.	Tom F. Little
WBMW	100	Detroit, Mich.	Braun's Music House
WBOW	100	Terre Haute, Ind.	Banks of Wabash Brdcastg. Assn.
WBRE	100	Wilkes-Barre, Pa.	Louis C. Baltimore
WCLS	100	Joliet, Ill.	WCLS, Inc.
WDAH	100	El Paso, Texas	Trinity Methodist Church
WEBR	100	Buffalo, N. Y.	H. H. Howell
WEHS	100	Evanston, Ill.	Victor C. Carlson
WFBC	100	Altoona, Pa.	Wm. F. Gable Co.
WFDF	100	Flint, Mich.	Frank D. Fallain
WFKD	50	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
WGAL	15	Lancaster, Pa.	Lancaster Electric Supply Co.
WHBP	100	Johnstown, Pa.	Johnstown Automobile Co.
WHFC	100	Chicago, Ill.	Goodson & Wilson, Inc.
WIAD	100	Philadelphia, Pa.	Howard R. Miller
WIBU	100	Poynette, Wis.	The Electric Farm
WIBX	100	Utica, N. Y.	WIBX, Inc.
WIAK	50	Kokomo, Ind.	J. A. Kautz-Kokomo Tribune
WKAV	50	Laconia, N. H.	Laconia Radio Club
WKBB	100	Joliet, Ill.	Sanders Bros.
WKCB	10	Birmingham, Ala.	H. I. Ansley
WKBI	50	Chicago, Ill.	Fred L. Schoenwolf
WKBS	100	Galesburg, Ill.	Permil N. Nelson
WKJC	50	Lancaster, Pa.	Kirk Johnson & Co.
WLBC	50	Muncie, Ind.	Donald A. Burton
WLBO	100	Galesburg, Ill.	Fred A. Trebbe, Jr.
WMBL	100	Lakeland, Fla.	Benford's Radio Studios
WMPC	30	Lapeer, Mich.	First Methodist Episcopal Church
WNAT	100	Philadelphia, Pa.	Lennig Bros. Co.
WNBJ	50	Knoxville, Tenn.	Lonsdale Baptist Church
WNEW	100	Newport News, Va.	Virginia Brdcastg. Co., Inc.
WOBT	15	Union City, Tenn.	Tittsworth's Radio & Music Shop
WRAW	100	Reading, Pa.	Avenue Radio & Electric Shop
WRBI	20	Tifton, Ga.	Kent's Furniture & Music Store
WRBW	15	Columbia, S. C.	Paul S. Pearce
WSAJ	100	Grove City, Pa.	Grove City College
WTHS	100	Atlanta, Ga.	Technical High School

1320 kilocycles 227.1 meters

KCHB	250	Honolulu, Hawaii	Radio Sales Co.
KGHF	250	Pueblo, Colo.	C. P. Ritchie & J. E. Finch
KSEI	250	Pocatello, Idaho	KSEI Broadcasting Assn.
WBET	500	Boston, Mass.	Boston Transcript Co.
WCWK	500	Fort Wayne, Ind.	Chester W. Keen
WMAF	500	South Dartmouth, Mass.	Round Hills Radio Corp.
WSMB	750	New Orleans, La.	Saenger Theatres & Maison Blanche

1330 kilocycles 225.4 meters

KSCJ	1000	Sioux City, Iowa	Perkins Bros. Co.
WCAC	500	Storrs, Conn.	Conn. Agricultural College
WDRG	500	New Haven, Conn.	Doolittle Radio Corp.
WTAQ	1000	Eau Claire, Wisc.	C. S. Van Gorden

1340 kilocycles 223.7 meters

KFPW	50	Sulphur Springs, Ark.	Rev. Lannie W. Stewart
KGB	250	San Diego, Calif.	Southwestern Brdcastg. Corp.
KMO	500	Tacoma, Wash.	KMO, Inc.
KVI	1000	Tacoma, Wash.	Puget Sound Radio Brdcastg. Co.
WADC	1000	Akron, Ohio	Allen T. Simmons
WFJC	500	Akron, Ohio	W. F. Jones Co.

INDEX BY NEW FREQUENCIES AND DIAL NUMBERS

1350 kilocycles 222.1 meters

KWK 1000 St. Louis, Mo.
 WBNY 250 New York City
 WCDA 250 Brooklyn, N. Y.
 WIL 1000 St. Louis, Mo.
 WKBO 250 New York City
 WMSG 250 New York City

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Greater St. Louis Brdcstg. Corp.
 Baruchrome Corp.
 Italian Educ. Brdcstg. Co.
 WIL Broadcasting Corp.
 Standard Cahill Co., Inc.
 Madison Square Garden

1360 kilocycles 220.4 meters

WGFS 500 Chicago, Ill.
 WJKS 500 Gary, Ind.
 WPCG 500 Chicago, Ill.

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Oak Leaves Brdcstg. Corp.
 Johnson-Kennedy Radio Corp.
 North Shore Cong. Church

1370 kilocycles 218.7 meters

KFEC 100 Portland, Ore.
 KFEY 10 Kellogg, Idaho
 KFJI 50 Astoria, Ore.
 KFJZ 100 Fort Worth, Texas
 KFPL 15 Dublin, Texas
 KGAR 100 Tucson, Ariz.
 KGCI 100 San Antonio, Texas
 KGCX 10 Vida, Mont.
 KGER 100 Long Beach, Calif.
 KGFQ 50 Oklahoma City
 KGGH 50 Cedar Grove, La.
 KGHG 50 McGehee, Ark.
 KGJF 100 Little Rock, Ark.
 KGKL 100 San Angelo, Texas
 KGKO 100 Wichita Falls, Texas
 KJBS 100 San Francisco, Calif.
 KTUE 5 Houston, Texas
 KWEA 100 Shreveport, La.
 KWKC 100 Kansas City, Mo.
 KZM 100 Hayward, Calif.
 WAAD 25 Cincinnati, Ohio
 WBBL 100 Richmond, Va.
 WCBM 100 Baltimore, Md.
 WDFW 100 Cranston, R. I.
 WFBJ 100 Collegeville, Minn.
 WFCI 100 Pawtucket, R. I.
 WGCN 15 Gulfport, Miss.
 WHBD 100 Bellefontaine, Ohio
 WHBO 100 Memphis, Tenn.
 WIBM 100 Jackson, Mich.
 WJBB 100 Sarasota, Fla.
 WJBK 50 Ypsilanti, Mich.
 WJBO 100 New Orleans, La.
 WLSI 100 Cranston, R. I.
 WMBO 100 Auburn, N. Y.
 WRAK 50 Erie, Pa.
 WRBT 50 Wilmington, N. C.
 WSVS 50 Buffalo, N. Y.

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Meier & Frank Co.
 Union High School
 George Kincaid
 Henry C. Allison
 C. C. Baxter
 Citizens Publishing Co.
 Liberto Radio Sales
 First State Bank of Vida
 C. Merwin Dobyns
 Full Gospel Church
 Bates Radio & Electric Co.
 Charles W. McCollum
 First Church of the Nazarene
 KGKL Inc. Oper. by Ragsdale Auto Co.
 Highland Heights Christian Church
 Julius Brunton & Sons Co.
 Uhalt Electric
 William E. Antony
 Wilson Duncan Brdcstg. Co.
 Leon P. Tenney
 Ohio Mechanics Institute
 Grace Covenant Pres. Church
 Hotel Chateau
 Dutee W. Flint
 St. John's University
 Frank Crook, Inc.
 Gulf Coast Music Co.
 First Presbyterian Church
 Broadcasting Station WHBO, Inc.
 C. L. Carrell
 Financial Journal, Inc.
 Ernest F. Goodwin
 Valdemar Jensen
 The Lincoln Studios, Inc.
 Radio Service Laboratories
 C. R. Cummins
 Wilmington Radio Association
 Seneca Vocational School

1380 kilocycles 217.3 meters

KOV 500 Pittsburgh, Pa.
 KSO 1000 Clarinda, Iowa
 WCSO 500 Springfield, Ohio
 WHBL 1000 Sheboygan, Wis.
 WKBH 1000 La Crosse, Wis.

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Doubleday-Hill Electric Co.
 Berry Seed Co.
 Wittenberg College
 Press Publishing Co.
 Callaway Music Co.

1390 kilocycles 215.7 meters

KFUM 1000 Colorado Springs, Colo.
 KOW 500 Denver, Colo.
 WHK 500 Cleveland, Ohio
 WJAY 500 Cleveland, Ohio

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W. D. Corley
 Associated Industries, Inc.
 Radio Air Service Corp.
 Cleveland Radio Brdcstg. Corp.

1400 kilocycles 214.2 meters

WBAA 500 Lafayette, Ind.
 WBBC 500 Brooklyn, N. Y.
 WCGU 500 Coney Island, N. Y.
 WCMA 500 Culver, Ind.
 WKBF 500 Indianapolis, Ind.
 WLTH 250 Brooklyn, N. Y.
 WSGH 500 Brooklyn, N. Y.

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Purdue University
 Brooklyn Broadcasting Corp.
 U. S. Broadcasting Corp.
 Culver Military Academy
 Noble Butler Watson
 The Voice of Brooklyn, Inc.
 Amateur Radio Specialty Co.

INDEX BY NEW FREQUENCIES AND DIAL NUMBERS

1410 kilocycles 212.6 meters

KFEQ	500	St. Joseph, Mo.
KFLV	500	Rockford, Ill.
KGRS	1000	Amarillo, Texas
WDAG	1000	Amarillo, Texas
WDGY	500	Minneapolis, Minn.
WHDI	500	Minneapolis, Minn.
WSKC	500	Bay City, Mich.

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Scroggin & Co. Bank
Swedish Evan. Mission Church
Gish Radio Service
J. Laurence Martin
Dr. George W. Young
Wm. Hood Dunwoody Indus. Inst.
World's Star Knitting Co.

1420 kilocycles 211.1 meters

KFIF	50	Portland, Ore.
KFQW	100	Seattle, Wash.
KFXD	15	Jerome, Idaho
KFXV	190	Flagstaff, Ariz.
KFIZ	100	Fond du Lac, Wis.
KGCN	50	Concordia, Kansas
KGFF	100	Alva, Okla.
KGfJ	100	Los Angeles, Calif.
KGFw	50	Ravenna, Nebr.
KGGM	100	Albuquerque, N. M.
KGHD	5	Missoula, Mont.
KGY	50	Lacey, Wash.
KKP	15	Seattle, Wash.
KLS	100	Oakland, Calif.
KMED	50	Medford, Ore.
KOCW	100	Chickasha, Okla.
KORE	100	Eugene, Ore.
KWG	100	Stockton, Calif.
WAFD	100	Detroit, Mich.
WEDH	30	Erie, Pa.
WLBH	30	Farmingdale, N. Y.
WHPP	10	New York City
WKBP	50	Battle Creek, Mich.
WKBT	50	New Orleans, La.
WLEX	50	Lexington, Mass.
WMBC	100	Detroit, Mich.
WMRJ	10	Jamaica, N. Y.
WRK	100	Hamilton, Ohio
WSRO	100	Middletown, Ohio
WSSH	100	Boston, Mass.

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Benson Polytechnic Institute
KFW, Inc.
Service Radio Co.
Mary M. Costigan
Commonwealth-Reporter
Concordia Broadcasting Co.
Earl E. Hampshire
Ben S. McGlashan
Otto F. Sothman
Jay Peters
Elmore-Nash Broadcasting Corp.
St. Martin's College
City of Seattle
Warner Bros.
W. J. Virgin
College for Women
Eugene Broadcast Station
Portable Wireless Tel. Co.
Albert B. Parfet Co.
Erie Dispatch-Herald
Joseph J. Lombardi
Bronx Broadcasting Co.
Enquirer-News Co.
First Baptist Church
Lexington Air Station
Michigan Broadcasting Co., Inc.
Peter J. Prinz
S. W. Doron & John C. Slade
Harry W. Fahrlander
Tremont Temple Baptist Church

1430 kilocycles 209.7 meters

WBRL	500	Tilton, N. H.
WGBC	500	Memphis, Tenn.
WICC	500	Bridgeport, Conn.
WKBN	500	Youngstown, Ohio
WMBS	250	Lemoine, Pa.
WNBR	500	Memphis, Tenn.

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Booth Radio Laboratories
First Baptist Church
Bridgeport Brdcstg. Station
W. P. Williamson, Jr.
Mack's Battery Co.
John Ulrich

1440 kilocycles 208.2 meters

WABF	250	Kingston, Pa.
WABO	250	Rochester, N. Y.
WHEC	250	Rochester, N. Y.
WMAC	500	Cazenovia, N. Y.
WMBD	500	Peoria Heights, Ill.
WNRC	500	Greensboro, N. C.
WOKO	500	Peekskill, N. Y.
WRAX	250	Philadelphia, Pa.
WTAD	500	Quincy, Ill.

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Markle Broadcasting Corp.
Lake Ave. Baptist Church
Hickson Electric Co., Inc.
Clive B. Meredith
Peoria Heights Radio Laboratory
Wayne M. Nelson
Harold E. Smith
Berachah Church, Inc.
Ills. Stock Medicine Brdcstg. Corp.

1450 kilocycles 206.8 meters

KSBA	1000	Shreveport, La.
WAAT	250	Jersey City, N. J.
WBMS	100	Union City, N. J.
WCAH	250	Columbus, Ohio
WNJ	250	Newark, N. J.
WKBO	250	Jersey City, N. J.
WNBH	250	New Bedford, Mass.
WSAR	250	Fall River, Mass.
WSPD	250	Toledo, Ohio
WTFI	500	Toccoa, Ga.
WIBS	250	Elizabeth, N. J.

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W. G. Patterson
Bremer Broadcasting Corp.
WBMS Broadcasting Corp.
Commercial Radio Service Co.
Radio Investment Co.
Camith Corp.
New Bedford Brdcstg. Co.
Doughty & Welch Electric Co.
Toledo Broadcasting Co.
Toccoa Falls Institute
N. J. Broadcasting Corp.

INDEX BY NEW FREQUENCIES AND DIAL NUMBERS

1460 kilocycles 205.4 meters

KSTP 10000 St. Paul, Minn.
WTFB 10000 Washington, D. C.

National Battery Brdcstg. Co.
Independent Publishing Co.

1470 kilocycles 202.6 meters

KFJF 5000 Oklahoma City
KGA 5000 Spokane, Wash.
WKBW 5000 Buffalo, N. Y.
WKEN 750 Buffalo, N. Y.
WRUF 5000 Gainesville, Fla.

National Radio Mfg. Co.
Northwest Radio Service Co.
Churchill Evangelistic Assn.
Radio Station WKEN, Inc.
University of Florida

1480 kilocycles 202.6 meters

WIBO 5000 Chicago, Ill.
WJAZ 5000 Chicago, Ill.
WORD 5000 Batavia, Ill.
WHT 5000 Chicago, Ill.

WIBO Broadcasters, Inc.
Zenith Radio Corp.
People's Pulpit Association
Radiophone Brdcstg. Corp.

1490 kilocycles 201.2 meters

WBAW 5000 Nashville, Tenn.
WLAC 5000 Nashville, Tenn.

Waldrum Drug Co.
Life & Casualty Insurance Co.

1500 kilocycles 199.9 meters

KFBL 50 Everett, Wash.
KFCR 100 Santa Barbara, Calif.
KFQU 100 Holy City, Calif.
KFUP 100 Denver, Colo.
KFXJ 50 Edgewater, Colo.
KFYO 100 Breckenridge, Texas
KFWO 100 Avalon, Calif.
KGDR 100 San Antonio, Texas
KGKB 100 Goldthwaite, Texas
KGHI 15 Little Rock, Ark.
KGHX 50 Richmond, Texas
KGTT 50 San Francisco, Calif.
KPJM 15 Prescott, Ariz.
KRE 100 Berkeley, Calif.
KUJ 10 Longview, Wash.
KVL 100 Seattle, Wash.
KWBS 15 Portland, Ore.
KWJJ 50 Portland, Ore.
KWTC 100 Santa Ana, Calif.
WALK 50 Willow Grove, Pa.
WCBA 100 Allentown, Pa.
WCLB 100 Brooklyn, N. Y.
WHBWA 100 Philadelphia, Pa.
WIBZ 15 Montgomery, Ala.
WKBV 100 Brookville, Ind.
WKBZ 50 Ludington, Mich.
WLBX 100 Long Island City, N. Y.
WLOE 100 Chelsea, Mass.
WMBA 100 Newport, R. I.
WMBM 10 Memphis, Tenn.
WMBQ 100 Brooklyn, N. Y.
WMES 50 Boston, Mass.
WNEF 50 Endicott, N. Y.
WNBQ 15 Rochester, N. Y.
WNO 100 Philadelphia, Pa.
WPSW 50 Philadelphia, Pa.
WRBJ 10 Hattiesburg, Miss.
WSAN 100 Allentown, Pa.
WWRL 100 Woodside, N. Y.

Leese Bros.
Santa Barbara Brdcstg. Co.
W. E. Riker
Fitzsimmons General Hospital
R. G. Howell
Kirksey Bros. Battery Electric Co.
Lawrence Mott
Joe B. McShane
Eagle Publishing Co.
Berean Bible Class
Ft. Bend County School Board.
Glad Tidings Temple
Frank Wilburn
First Congregational Church
Lovejoy & Kerfoot
Arthur C. Dailey
Schaeffer Radio Co.
Wilbur Jerman
Pacific Broadcasting Foundation
Albert A. Walker
B. B. Musselman
Arthur Faske
D. R. Kienzle
Alexander D. Trum
Knox Battery & Electric Co.
K. L. Ashbacker
John N. Brahy
William S. Pote
LeRoy Joseph Beebe
Seventh Day Adventist Church
Paul J. Gollhofer
Mass. Educational Society
Howitt-Wood Radio Co.
Gordon P. Brown
John Wanamaker
School of Wireless Telegraphy
Woodruff Furniture Co.
Allentown Call Publishing Co.
Wm. H. Reuman

MOVIES BY RADIO

(Continued from page 8)

it. This light is reflected into the camera and upon the film through the lens just as it is into the human eye. The spots of the subject that are white falling upon the film discolor it and change it to black. Black spots in the subject reflecting no light, leave their spot on the film white while those parts which are neither black nor white, leave the film gray. This film is then "developed" and becomes a negative from which endless reproductions of the original picture may be made.

In radio-movies a photo-electric cell or tube which is so quickly affected by light that its response is in the millionths of a second, is placed in the electric current where the microphone is in the ordinary broadcast. As light is permitted to fall upon this cell through a lens and shutter, white spots in the picture falling upon the cell cause it to glow fully and release a full amount of flow of the electric current passing through the circuit. As black spots fall upon the cell, the light is unaffected thus stopping the flow of current. Grays similarly only partly affect the cell and permit but a portion of the current to flow, the amount being determined by the amount of white in the gray.

To permit the whole picture to impress itself upon the cell as it does on the film in a camera would mean nothing at all therefore the picture must be broken up just as it is in a half-tone engraving. If you will take any half-tone picture in a magazine and examine it through a microscope it will be seen that the picture is composed of a multitude of small dots, some black and some white and some the gray between. In order to break up the picture into small particles therefore a "scanning" device is used. The usual form of this

scanning device is composed of two disks which whirl rapidly between the lens and the photo-electric cell. One of these disks has a circular slot in it which begins near the other edge and gradually comes closer to the center. The other disk has a slot in it which runs like a spoke in a wheel. If you were to peek through these whirling disks you would see a spot of light which traveled up and down and back and forth until it had covered the entire vision of the lens.

In operation the subject is seated facing the device with the light full upon it. The scanning device is started and instead of a single picture being taken at once as in a camera, hundreds of small pictures are taken instead each one being a "dot" of the whole picture just as in the half-tone. So rapidly is this done however that your eye would seem to see the whole picture just as when you look at anyone through the spokes of a rapidly moving wheel. As each of these dot pictures is taken, the amount of light reflected by that particular dot is thrown upon the photo-electric cell which vibrates accordingly and the broadcast current is thereby vibrated just as it is by the microphone actuated by sound.

At the receiving end we have an identical apparatus with the disks synchronized with the sending instrument. That is, they must whirl at *exactly* the same rate of speed. Here another photo-electric cell, connected with the broadcast circuit, vibrates white, black and gray in complete sympathy with the sending cell. If we then look at this second cell through the scanning device a picture is painted for us, dot by dot, so rapidly that we seem to see the whole at once. As eighteen complete pictures must be sent each second in order to conform to the speed of the eye and as each picture is made up of hundreds of tiny pictures, some idea

of the incomprehensible speed of the device may be secured. The larger the picture that is sent, the greater must be the speed of the device to scan it completely eighteen times a second. Therefore in the machines now in use the picture that is reproduced is very small, about the size of that of a pocket kodak. Without doubt means will be found to magnify these pictures and perhaps throw them upon a screen so that they will be life-size as in the movies. Television is still in its swaddling-clothes and no station is as yet broadcasting moving pictures regularly although WGY of Schenectady is doing so occasionally only for local use that its experts may both send and receive them in their efforts to make them practical and the devices marketable. The day is not far distant however when we radio-listeners will both "see" and "hear" the great events of the day.

THE BROADCASTING SITUATION

(Continued from page 9)

larger the city, the greater the supply of worth-while artists. No small town can possibly hope to put on programs seven nights a week that will have any sort of attraction to listeners at a distance. Their clientele must be found in their own locality where necessary crudities of local talent will be overlooked because the hearer knows the person broadcasting. To put hall-town programs out over a chain of stations would be folly. But when an advertiser in New York is willing to employ Whiteman's Band, for instance, there can be no possible objection to the broadcasting of such a program over dozens of stations simultaneously. Far better to be limited to hearing one good event than to have the power to tune in a dozen poor ones.

RADIO PICTURES

(Continued from page 7)

these may be bought so that a single instrument capable of reproducing both sound and pictures, will be available to those who would build their own.

There are still several differing methods of reproduction of pictures in use and the set one builds must be adapted to the requirements of the sending station he will receive. The speed of his cylinder must be identical with that of the sending station otherwise grotesque pictures will appear that may resemble either hash or a futuristic picture of intoxicated design.

RADEX will from time to time publish the latest information for the benefit of those who are interested in this new development in the field of radio.

The Radiovision Corporation announces that stations KSTP, St. Paul, Minn. and WJBI of Scranton, Pa., have joined the list of stations broadcasting pictures through the Cooley Rayfoto process on their radio schedules. WMCA, New York City, broadcasts a picture playlet every Wednesday night and pictures three mornings each week. WDEL Wilmington, Del., WWJ, Detroit, CKNC, Toronto and CJRN, Winnipeg are also included in the Radiovision chain.

**If you like *Radex*
tell your friends.
All three of us will
be happier. ☺ ☺**

*P. S. A Leatherette cover
free for two subscriptions*

RADIO GRAND OPERA

The Coming Season Will Hold Treats

The most elaborate schedule of grand operas ever attempted by radio is disclosed in the National Broadcasting Company's announcement of musical dramas to be produced by the National Grand Opera Company beginning September 17.

The 1928-29 radio opera season officially opens on Monday night, September 17, with an interpretive arrangement of Verdi's "Aida" never before heard over the air, and specially made for the National Grand Opera Company. All the operas of the new season will be heard in more inclusive form, requiring an hour and a half for production. They will be broadcast through the NBC System each Monday night from 10:30 o'clock to midnight, Eastern Daylight Saving Time.

A greater variety of artists will sing the leading dramatic roles under the direction of Cesare Sodero, maestro of several successful seasons. Overtures and orchestral support gain new importance as played by a symphonic group of more than forty pieces. Sodero will conduct except when operatic composers themselves lead a special performance of their own work.

Again the new season's operas have been drawn from the masterworks of every land, but this year American composers will receive greater recognition than ever before.

This is done by presenting an American opera on the last Monday of every month, starting with Victor Herbert's "Natoma" on October 29. In doing this, NBC officials believe they are enabling those who bring the world's best music right into the homes of the

American public to encourage a native school of American opera.

In addition to Victor Herbert's "Natoma," American works on the first half of the NBC schedule include Cadman's "Shanewis" and Harling's "The Light from St. Agnes." Franke Harling himself will conduct the performance of the latter, which scored such a triumph for both opera and composer when presented by the Chicago Civic Opera Company.

The complete schedule for the first half of the NBC Grand Opera Season follows:

Sept. 17	Aida	Verdi
" 24	Rigoletto	Verdi
Oct. 1	Pagliacci	Leoncavallo
" 3	Sylvano	Mascagni
" 15	Lohengrin	Wagner
" 22	Faust	Gounod
" 29	Natoma	Herbert
Nov. 5	Cavalleria Rusticana	Mascagni
" 12	Romeo et Juliette	Gounod
" 19	Le Cid	Massenet
" 26	The Light from St. Agnes	Harling
Dec. 3	L'Amico Fritz	Mascagni
" 10	Fidelio	Beethoven
" 17	Lucia di Lammermoor	Donizetti
" 24	Hansel and Gretel	Humperdinck
" 31	Shanewis	Cadman

The Grand Opera Series will be broadcast through WEAf and associated stations of the NBC System.

QUICK INDEX TO FAVORITE FEATURES

PROGRAM	CALL	DIAL NUMBERS			DAY	HOUR

FRED C. DIETERLE

→RADIOS←

Accessories & Service

105 BROADWAY

Tel. WICKSVILLE N. Y.

FRED C. DIETERLE

RADIOS

Accessories & Service

100 BROADWAY

BRIDGE PLAZA