

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?"

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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One Dollar the Year
Six Issues

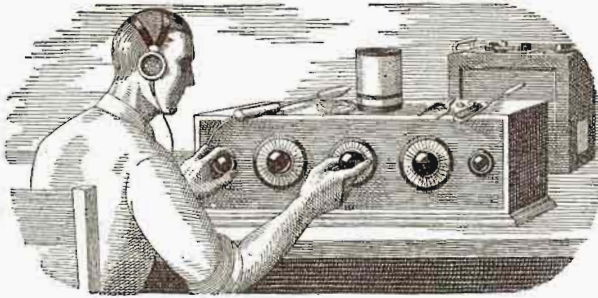
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If all the Radio sets I've "fooled" with in my time were piled on top of each other, they'd reach about halfway to Mars. The trouble with me was that I thought I knew so much about Radio that I really didn't know the first thing. I thought Radio was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

WEAF	WLIT	WWJ	WOW	WTMJ
WEEI	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	WEBC		

2:00-3:00 Summer Radio Church

WEAF	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

WEAF	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

WEAF	WRC	KSD	WHAS	KOA
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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

WEAF	WRC	WSAI	WHAS	KOA
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5:00-6:00 Twilight Reveries

WJZ	WHAM	KDKA	WLW	KYW
WJR	WREN			

5:30-6:00 The Ballad Singers

WEAF	WRC	WGY	WCAE	WSAI
WHAS	KOA			

6:00-7:00 The Stetson Parade

WEAF	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

WEAF	WEEI	WTIC	WJAR	WTAG
WCSH	WRC	WGY	WGR	

7:30-9:00 Major Bowes' Family

WEAF	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	WJR	WLW	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

WEAF	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

WEAF	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

WEAF	KSD	WHO	WOW	WFAA
WFI	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

WEAF	KSD	WHO	WSB	WOW
WDAF	WFAA			

10:45-11:15 South Sea Islanders

WEAF	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

WEAF WTIC WTAG WLIT WGR
 WCAE KSD WHO WOW

8:30-9:30 A. & P. Gypsies

WEAF 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 WMAO WSPD
 WEAN WADC WOWO WMAF
 WFBL WAIU KMOX WICC

9:00-9:30 Riverside Hour

WJZ WBZ WBZA WBAL WHAM
 KDKA KYW KWK WJR WSM
 WSE WLW KVOO WBAP WHAS
 WMC WBT WCCO KOA WEBC

9:30-10:00 General Motors Family Party

WEAF 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 WMAO WSPD
 WEAN WADC WOWO WMAF
 WFBL WAIU KMOX WICC

10:00-11:00 Russian Gayeties

WJZ WJR WHAM

10:05-10:30 The Cabin Door

WEAF WEEI WTIC WLIT WRC
 WGY WCAE WTAM WWJ WSAI
 KSD WCCO WOC WHO WOW
 WBT WMC

10:30-11:00 National Grand Opera

WEAF 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

WEAF WMC WWJ WOW

Tuesday

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

WEAF WEEI WTIC WRC WCAE
 WWJ

7:00-7:30 Voters' Service

WEAF 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

WEAF 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

WEAF 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

WEAF 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

WEAF 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

WEAF 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

WEAF 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 WKRC 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
KWK WBAL WHAS WBZ WBZA
KDKA WTR 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
 WEAJ 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 WAJU WGHP WSPD WHK
 WEAN WJAS WOWO

10:30-11:00 Blue Danube Nights
 WJZ WBAL WJR KYW

10:30-11:00 Statler's Pennsylvanians
 WEAJ WFI WGY WGR WWJ
 KSD WHO WOW WRG

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

Friday

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

8:00-9:00 Cities Service Orchestra
 WEAJ 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
 WEAJ WEEI WTIC WRC WGR
 WCAE WTAM WWJ WSAI WEBH
 WDAF KSD WJAR WTAG WCSH
 WFI

9:00-10:00 True Story Hour
 WOR WMAK WAJU 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 WBC

Friday

9:30-10:00 Larry Brier's Tuneful Troupe
 WEAJ WLIT WRC WCAE KSD
 WOC WHO WOW

10:00-10:30 Kodak Front Porch
 WOR WFBL WADC WMAQ WSPD
 WCAU WMAK WAJU 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
 WEAJ 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 WAJU WOWO WMAF
 WNAC WCAO WKRC KMOX WICC
 WEAN WJAS WGHP KMBC WHK

11:00-12:00 Hotel St. Regis Orchestra
 WEAJ WCAE WWJ WHO WOW
 KOA

11:00-12:00 Slumber Music
 WJZ WLW WRC WTMJ

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
 WEAJ 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
 WEAJ WGY WOC KOA WIAX
 WEEI WGR WHO WTMJ KSL
 WTIC WCAE WOW WCCO KHO
 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

11:00-12:00 Park Central Orchestra
 WEAJ WFI WHO WOW WMC

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 Peckskill, 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 loudspeaker 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 WEAF 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

CFGL	500	Toronto, Ont.
CHMA	250	Edmonton, Alta.
CHNC	500	Toronto, Ont.
CJBC	500	Toronto, Ont.
CJCA	500	Edmonton, Alta.
CJSC	500	Toronto, Ont.
CKGL	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.
WVVA	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.
WEEI	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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Abltibi 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 5000 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
Magnolia Petroleum Co.
W. D. Corley
University of South Dakota
Federation of Labor
Emmanuel Missionary College
The Outlet Co.
Agrl. & 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 3000 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 5000 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

GFCF 1650 Montreal, Que.
 CHLS 50 Vancouver, B. C.
 CHYC 750 Montreal, Que.
 CKAC 1200 Montreal, Que.
 CKGD 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 Cliffsides, N. J.
 WQAO 500 Cliffsides, N. J.

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May Seed & Nursery
 College of Agriculture
 First Presbyterian Church
 W. K. Henderson
 State College of Washington
 George Schubel
 Pallsades 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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Drivers 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.
 WBSO 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	Hla, 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.
WOO	250	Kansas City, Mo.
6 KW	100	Tulnucu, 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.
WPCB	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.
CYQ	100	Tampico, Mex.
KFAD	500	Phoenix, Ariz.
KICK	100	Red Oak, Iowa
WHAS	500	Louisville, Ky.
WIAS	100	Ottumwa, Iowa
WKAQ	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.
CKCW	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.
WPSC	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.
KGFW	10	Ravenna, Nebr.
KOW	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 & Maison 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.
KPLA	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

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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

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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

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KEX 2500 Portland, Ore.
 KGJF 250 Little Rock, Ark.
 KWWG 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

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CYB 500 Mexico City
 KFBB 50 Havre, Mont.
 KFBK 100 Sacramento, Calif.
 KPFL 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

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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. Dalley
 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

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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.
WBAO	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.
WOBU	250	Charleston, W. Va.

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
WICC	500	Bridgeport, Conn.
WNOX	1000	Knoxville, Tenn.
WOI	2500	Ames, Iowa

F. Zonllo
 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.

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

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.

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

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.

University of Kansas
Home Auto Co.
Dana 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.

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.
WBBY	75	Charleston, S. C.
WBRE	100	Wilkes-Barre, Pa.
WCAZ	50	Carthage, Ill.
WCOA	500	Pensacola, Fla.
WHBY	50	West De Pere, Wis.
WIBR	50	Steubenville, Ohio
WQBZ	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

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
KWLG	50	Decorah, Iowa
WABY	50	Philadelphia, Pa.
WGAT	100	Rapid City, S. D.
WDWF	250	Cranston, R. I.
WIBX	150	Utica, N. Y.
WFKD	50	Philadelphia, Pa.
WIOD	1000	Miami Beach, Fla.
WLGI	50	Ithaca, N. Y.
WLSI	250	Cranston, R. I.
WRJN	50	Racine, Wis.
WTAX	50	Streator, Ill.

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.

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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.

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.
Kodel Radio Corp.
University of Minnesota
Loyola University

1230 kilocycles 243.8 meters

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

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.
WEBR	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.

Dr. J. R. Brinkley
Nichols & Warriner, 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

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.

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

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1270 kilocycles 236.1 meters

KFDX	250	Shreveport, La.
KFMX	500	Northfield, Minn.
KFWM	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
WPOR	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. Fahrlander
 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	Lemoyne, 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. Heskitt
 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
KFOZ	250	Hollywood, Calif.
KGHD	5	Missoula, Mont.
KGKL	100	Georgetown, Texas
KUT	500	Austin, Texas
WBRL	500	Tilton, N. H.
WHBQ	100	Memphis, Tenn.
WJKS	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 WHBQ, 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	Mempnls, 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.

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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.
WTBS	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	Torreón, Mexico
KFIU	10	Juneau, Alaska
KFKZ	15	Kirksville, Mo.
KFUR	500	Ogden, Utah
KGEM	100	El Centro, Calif.
WAGM	50	Royal Oak, Mich.
WCBM	100	Baltimore, Md.
WLAC	1900	Nashville, Tenn.
WMAC	500	Cazenovia, N. Y.

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Alaska Elec. Lt. & Pwr. Co.
 State Teachers College
 Peery Building Co.
 E. R. Irely & 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	Hatlock, Minn.
KMIC	250	Inglewood, Calif.
KXRO	50	Aberdeen, Wash.
WGAM	500	Camden, N. J.
WCRW	100	Chicago, Ill.
WEBQ	15	Harrisburg, Ill.
WFAN	500	Philadelphia, Pa.
WKAY	50	Laconia, N. H.
WNRG	500	Greensboro, N. C.
WOCL	25	Jamestown, N. Y.
WPCC	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.
WQMT	100	Manitowoc, Wis.
WRBI	20	Tifton, Ga.
WSAN	100	Allentown, Pa.

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Thelen & Taddiken
 N. L. Cotter
 Charles W. McCollum
 Northwestern Auto Supply Co.
 Wilson Duncau 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.
EGCI	100	San Antonio, Tex.
EGFI	15	San Angelo, Tex.
KGRC	100	San Antonio, Tex.
KGTT	50	San Francisco, Calif.
KRMB	50	Shreveport, La.
KSTP	3500	St. Paul, Minn.
KXL	250	Portland, Ore.
WHBW	15	Anderson, Ind.
WHBW	100	Philadelphia, Pa.
WJBC	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 Battery Bdcstg. Co.
 KXL Broadcasters
 Citizens Bank
 D. R. Kiensle
 Ernest F. Goodwin
 Havens & Martin
 Radio Service Laboratories
 W. Reynolds Jr. & T. J. McGulre

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
 WKBY 100 Brookville, Ind.
 WRAX 30 Erie, Pa.

City of Fort Morgan
 Associated Industries, Inc.
 U. S. Broadcast Corp.
 H. I. Ansley
 Camlith 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.

Howard A. Shuman
 KFOW, Inc.
 E. F. Pepper
 The Electric Farm
 Permil N. Nelson
 Churchhill 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.
 WLEX 50 Lexington, Mass.
 WOKO 500 Peekskill, N. Y.
 WQBC 100 Utica, Miss.

W. J. & C. 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.
 WCSH 5000 Portland, Maine
 WCWK 250 Ft. Wayne, Ind.
 WJBU 100 Lewisburg, Pa.
 WKBN 50 Youngstown, Ohio
 WLBG 100 Petersburg, Va.

Meler & 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.

Federal Live Stock Remedy Co.
 Ben S. McGlashan
 Bates Radio & Electric Co.
 Uhalt Electric
 William E. Antony
 Italian Educ. Brdcastg. 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.

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

1430 kilocycles 209.7 meters

KFGQ 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.

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. Dewling & Charles Messter

INDEX BY FREQUENCIES AND DIAL NUMBERS

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

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

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.

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

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.
WNBK 50 Endicott, N. Y.
WNBK 50 Knoxville, Tenn.
WPSW 50 Philadelphia, Pa.

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

1460 kilocycles 205.4 meters

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

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

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.
WIBV 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.
WMBO 100 Brooklyn, N. Y.
WSVS 50 Buffalo, N. Y.

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

1480 kilocycles 202.6 meters

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

University of Florida
 Independence Publishing Co.

1490 kilocycles 201.2 meters

KPOF 500 Denver, Colo.
WALK 50 Willow Grove, Pa.
WIBM 100 Jackson, Mich.

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

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.

Eugene Broadcast Station
 Lovejoy and Kerfoot
 Schaeffer Radio Co.
 WBMS Broadcasting Corp.
 Arthur Fiske
 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	KFXV	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
Tucson 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	KGFI	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	Greeley F-10	KFKA	1200
Inglewood K-4	KMIC	1340	Gunnison H-9	KFHA	1200
Long Beach K-4-a	KFON	1240	Pueblo H-11	KGDP	1340
	KGER	1390		KGHA	1430
Los Angeles K-3-b	KEJK	1190		KGHF	1430
	KFI	640	Yuma G-11	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
				WTFF	1480

INDEX BY LOCATIONS WITH MAP KEY

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

INDEX BY LOCATIONS WITH MAP KEY

Decorah D-17	KGCA	1210	MASSACHUSETTS	
	KWLC	1210	Boston E-27-c	WBET 1040
Des Moines F-16-a	WHO	560		WBIS 650
Fort Dodge E-16-a	KFJY	1290		WBZA 900
Iowa City E-17-b	WSUI	630		WEEL 590
Marshalltown E-16-d	KFJB	1210		WMES 1420
Muscatine F-17-b	KTNT	1170	Chelsea E-27	WNAC 650
Ottumwa F-17	WIAS	930		WSSH 1040
Red Oak F-15	KICK	930	Fall River E-27	WLOE 1420
Shenandoah F-15-c	KFNF	650	Gloucester E-27	WSAR 1410
	KMA	760	Lexington E-27	WEPS 1010
Sioux City E-15	KSCJ	1230		WLEX 1390
Waterloo F-17	WJAM	1250	New Bedford E-27-g	WNBH 1150
			South Dartmouth E-27	WMAF 700
KANSAS			Springfield E-26-b	WBZ 900
Concordia G-14	KGCN	1440	Webster E-27-d	WKBE 1310
Lawrence G-15-a	KFKU	1180	Wellesley Hills E-27	WBSO 780
	WREN	1180	Worcester E-27-b	WTAG 580
Manhattan G-14-a	KSAC	900		
Milford G-14	KFKB	1240	MICHIGAN	
Topeka G-14	WIBW	1470	Battle Creek E-20	WKBP 1410
Wichita H-14-a	KFH	1220	Bay City D-21	WSKC 1100
			Berrien Springs E-19	WEMC 620
KENTUCKY			Detroit E-21-g	WAFD 1300
Hopkinsville I-19	WFIW	1150		WBMH 1420
Louisville H-20	WHAS	930		WCX 680
	WLAP	1120		WGHP 1080
				WJR 680
LOUISIANA				WMBC 1230
Cedar Grove M-17	KGGH	1410		WWJ 850
New Orleans M-17	WABZ	1260	East Lansing E-20-b	WKAR 1080
	WDSU	1320	Flint E-21-a	WFDF 1100
	WJBO	1140	Grand Rapids E-20-a	WASH 1170
	WJBW	1260		WOOD 1150
	WKBT	1190	Jackson E-20	WIBM 1490
	WSMB	1010	Lapeer E-21	WMPC 1280
	WWL	1220	Ludington D-19	WKBZ 1500
Shreveport K-16	KFDX	1270	Royal Oak E-21-e	WAGM 1330
	KGDX	1410	Ypsilanti E-21-f	WJBK 1360
	KRMD	1360		
	KSBA	1120	MINNESOTA	
	KWEA	1410	Barrett C-14	KGDE 1460
	KWKH	760	Collegeville C-15	WFBJ 1100
			Hallock A-14	KGFK 1340
MAINE			Minneapolis C-16-B	WCCO 740
Bangor C-28-b	WABI	770		WDGY 1050
Dover-Foxcroft C-28	WLBZ	1440		WGMS 1220
Portland D-28-b	WCSH	1400		WHDI 1220
				WLB 1220
				WRHM 1150
MARYLAND			Northfield D-16	KFMX 1270
Baltimore G-24-a	WBAL	1050		WCAL 1050
	WCAO	1230	St. Paul C-16-c	KFOY 1350
	WCBM	1330		KSTP 1360
	WFBR	1230		WCCO 740
Salisbury G-25	WBES	1130		WGMS 1220

INDEX BY LOCATIONS WITH MAP KEY

MISSISSIPPI			NEW HAMPSHIRE		
Columbus K-18	WCOC	1300	Laconia D-27	WKAU	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	Paterson F-26-c	WKBO	1370
Kansas City G-15-b	WMBH	1470	Red Bank G-26	WPCH	920
Kirksville F-16-c	KWKC	1350	Secaucus	WAAM	1120
St. Joseph G-15	WDAF	810	Trenton F-25	WGPC	1120
St. Louis H-18-a	WHB	880	Union City F-26	WNJ	1120
	WLBF	1430	NEW MEXICO		
	WOQ	880	Albuquerque	KGGM	1470
	KFKZ	1330	Raton I-11	KGFL	1350
	KFEQ	1330	State College K-9	KOB	760
	KGBX	1040	NEW YORK		
	KFUO	550	Auburn E-24	WMBO	1360
	KFWF	1400	Bay Shore F-26-h	WINR	1420
	KMOX	1000	Brooklyn F-26-f	WBBC	1320
	KSD	550		WCDA	1410
	KWK	1280		WCLB	1500
	WEW	850		WLTH	1170
	WIL	1160		WMBQ	1470
	WMAY	1280		WSGH	1320
MONTANA			Buffalo E-23-a	WEBR	1240
Billings C-8	KGHL	1350		WGR	990
Havre A-8	KFBB	1090		WKBW	1380
Kalispell A-5	KGEZ	1020		WMAK	550
Missoula B-6	KGHD	1290		WSVS	1470
Vida B-10	KUOM	650	Canton D-25	WCAD	1230
	KGCX	1230	Cazenovia E-25-b	WMAC	1330
NEBRASKA			Coney Island F-26	WCGU	1370
Central City F-13	KGES	1470	Endicott E-25	WNBF	1450
Clay Center G-14	KMMJ	1050	Farmingdale F-26	WLBH	1290
Columbus F-14	KGBY	1350	Freeport F-26-i	WGBB	1220
Grand Island F-13	KGEO	1460	Grand Island E-23	WKEN	1470
Humboldt G-15	KGDW	1020	Greenville E-26	WCOH	1420
Lincoln F-14-b	KFAB	940	Ithaca E-24-d	WLCI	1210
	KFOR	1380	Jamaica F-26-f	WMRJ	1450
	WCAJ	790	Jamestown E-23-b	WOCL	1340
Norfolk E-14-c	WJAG	1050	Long Island City F-26	WLBX	1470
Omaha F-15-a	WAAW	680			
	WOW	590			
Ravenna F-13	KGFW	1010			
Wayne E-14	KGCH	1020			
York F-13	KGBZ	1410			

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
	WLW	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
	WSMK	1010
Dayton G-21-e	WRK	1460
Hamilton G-20-d	WLBV	1450
Mansfield F-21	WSRO	1270
Middletown G-20	WCSO	1170
Springfield G-21-c	WIBR	1200
Steubenville F-22	WSPD	1250
Toledo F-21-a	WKBN	1400
Youngstown F-22	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
	KXL	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
Harrisburg F-24-d	WBAK	1000
	WPRC	1430
Johnstown F-23-d	WHBP	1310
Kingston F-24	WABF	1460
Lancaster G-25-a	WGAL	1190
	WKJC	1190
Lemoyne G-24	WMBS	1280
Lewisburg F-24-b	WJBU	1400
Monessen G-23	WMBJ	1290
Oil City F-23-a	WLBW	1020
Philadelphia G-25-d	WABY	1210
	WCAU	1150
	WFAN	1340
	WFI	740
	WFKD	1210
	WHBW	1360
	WIAD	1040
	WIP	860
	WLIT	740
	WNAT	1040
	WOO	860
	WPSW	1450
	WRAX	1410
Pittsburgh F-23-c	KDKA	950
	KQV	1110
	WCAE	650
	WJAS	1110
Reading F-25-d	WRAW	1260
Scranton F-25-a	WGBI	1300
	WQAN	1300
State College F-24-a	WPSC	1000
Washington F-23	WNBO	1420
Wilkes-Barre F-25-b	WBAX	1200
	WBRE	1200
Willow Grove G-25	WALK	1490

PORTO RICO

San Juan	WKAQ	930
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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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SOUTH DAKOTA

Brookings D-14	KFDY	550
	KGCR	1440
Dell Rapids D-14	KGDA	1180
Mitchell D-14	KGFP	1410
Oldham D-14	KGDY	1450
Pierre D-12	KGFX	1180
Rapid City D-11	WCAT	1210
Sioux Falls D-14	KSOU	1430
Vermillion E-14-b	KUSD	620
Yankton E-14-a	WNAX	990

TENNESSEE

Chattanooga J-20	WDOD	1230
Knoxville I-20	WFBC	1280
	WNBJ	1450
	WNOX	1130
Lawrenceburg J-19	WOAN	1250
Memphis J-18-a	WGBC	1310
	WHBQ	1290
	WMBM	1430
	WMC	580
	WNBR	1310
	WREC	1200
Nashville I-19	WBAW	1250
	WLAC	1330
	WSM	890
Springfield I-19	WSIX	1200
Union City I-18	WOBT	1460

TEXAS

Amarillo J-12	KGRS	1230
	WDAG	1140
Austin L-14-b	KUT	1290
Beaumont M-16	KFDM	620
Breckenridge K-13	KFYO	1420
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

INDEX BY LOCATIONS WITH MAP KEY

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			
Waco L-15-b	WJAD	900			
			WEST VIRGINIA		
UTAH			Charleston H-22	WOBW	1120
Ogden F-7-b	KFUR	1330	Clarksburg G-22	WQBJ	1250
Salt Lake City F-7-c	KDYL	1280	Huntington G-22	WSAZ	1200
	KSL	990	Weirton G-22	WQBZ	1200
			Wheeling G-22	WWVA	580
			WISCONSIN		
VERMONT			Beloit E-18-b	WEBW	1160
Burlington D-26-a	WCAX	1180	Eau Claire D-17	WTAQ	1180
Springfield D-26-b	WNBX	1240			
			Fond du Lac D-18-d	KFIZ	1120
			Kenosha E-19	WCLO	1320
			La Crosse E-17	WKBH	1300
			Madison E-18-2	WHA	900
VIRGINIA				WIBA	1250
Arlington G-24-d	NAA	690	Manitowoc D-19	WOMT	1350
Charlottesville H-23	WRCV	1430	Milwaukee E-19-a	WHAD	1110
Newport News	WNEW	1430		WISN	1110
Norfolk I-24	WBBW	1270		WTMJ	1020
	WPOR	1270	Poynette D-18-e	WIBU	1380
	WTAR	1270	Racine E-19	WRJN	1210
Petersburg I-24	WLBG	1400	Sheboygan C-18	WHBL	1470
Portsmouth I-24	WSEA	1140	Stevens Point D-18-b	WLBL	900
Richmond H-24	WBBL	1280	Superior B-17	WEBC	1240
	WMBG	1360	West De Pere D-19	WHBY	1200
	WRVA	1180			
	WTAZ	1360			
Roanoke H-23	WDBJ	1300			
			WYOMING		
			Laramie F-10	KFBU	620
			CANADA		
			ALBERTA		
			Calgary	CFAC	690
				CFCN	690
				CHCA	690
				CJCJ	690
				CNRC	690
			Edmonton	CHMA	580
				CJCA	580
				CKUA	580
				CNRE	580
			Lethbridge	CJOC	1120
			Red Deer	CHCT	840
				CKLC	840
			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		CNRM	730
	CKWX	730	Quebec	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		CJGX	630
Cobalt	CKMC	1210	HAITI		
Hamilton	CHCS	880	Port au Prince	HHK	830
	CHML	880	MEXICO		
	CKOC	880	Chihuahua	CZF	970
Iroquois Falls	CFCH	600	Mazatlan	CYR	630
King Twp.	CFRB	960	Merida	CYY	550
Kingston	CFMC	1120	Mexico City	CYA	1000
	CFRC	1120		CYB	1090
London	CJGC	910		CYH	800
Midland	CKPR	1120		CYJ	750
Ottawa	CKCO	690		CYL	750
	CNRO	690		CYO	710
Prescott	CFLC	1010		CYX	920
Preston	CKPC	1210	Oaxaca	CZE	860
Toronto	CFCA	840	Puebla	CYF	1130
	CFCL	580	Tampico	CYU	960
	CHNC	580	Torreón	CYQ	930
	CJBC	580	Vera Cruz	CYM	1330
	CJBC	840		CYC	890
	CJBC	960	CUBA		
	CJSC	580	Cienfuegos	6BY	1150
	CKCL	580	Elia	7SR	860
	CKNC	580	Havana	PWX	750
	CKOW	840		2BB	1200
	CNRT	840		2LR	1280
PRINCE EDWARD ISLAND				2MG	1050
Charlottetown	CFCY	960		2OK	860
	CHCK	960		2OL	1170
Summerside	CHGS	1120		2RK	950
			Tuinucu	2TW	1110
				2UF	1090
				6KW	880

FROM/TO	Albuquerque, N. Mex.	Atlanta, Ga.	Baltimore, Md.	Boston, Mass.	Brownsville, Tex.	Buffalo, N. Y.	Chicago, Ill.	Cincinnati, Ohio	Cleveland, Ohio	Denver, Colo.	Des Moines, Iowa	Detroit, Mich.	El Paso, Tex.	Fargo, N. Dak.	Fort Worth, Tex.	Galveston, Tex.	Hastings, Nebr.	Hot Springs, Ark.	Houghton, Mich.	Jacksonville, Fla.	Kansas City, Mo.	Los Angeles, Calif.	
Albuquerque, N. Mex.	1273	1670	774	1567	636	1577	1126	1248	1417	332	833	1360	228	968	751	603	588	773	1252	1492	717	663	
Atlanta, Ga.	1273	---	575	1630	933	660	695	583	367	1208	738	595	1293	1112	560	688	901	498	947	286	675	1935	
Baltimore, Md.	1670	575	---	2055	158	1525	273	603	423	1505	913	398	1750	1143	1239	1524	1154	964	808	682	962	213	
Boston, Mass.	774	1630	2055	---	2266	1610	1372	1453	1663	1754	637	1155	1471	969	975	1363	1538	934	1384	1367	2098	1158	663
Brownsville, Tex.	1967	933	358	2266	---	1881	398	849	737	550	1766	1159	613	3267	1304	1574	1598	1415	1302	922	1015	1250	2590
Buffalo, N. Y.	636	1577	158	1567	---	1575	1234	1184	1602	1047	1102	1398	638	1445	471	287	1013	650	1543	1025	923	1370	
Chicago, Ill.	1126	---	454	397	175	1368	762	218	1690	923	1289	519	1690	923	1221	1289	1019	956	560	800	867	2195	
Cincinnati, Ohio	1248	1567	367	1567	---	1234	454	---	349	918	310	236	1249	571	820	954	565	585	367	861	413	1741	
Cleveland, Ohio	1417	1567	423	1663	1754	637	1155	1471	969	975	1363	519	1690	923	1221	1289	1019	956	560	800	867	2195	
Denver, Colo.	332	833	1360	228	968	1208	738	595	1293	1112	560	688	901	498	947	286	675	1935	1367	2098	1158	663	
Des Moines, Iowa	833	---	545	980	397	1368	762	218	1690	923	1289	519	1690	923	1221	1289	1019	956	560	800	867	2195	
Detroit, Mich.	228	968	1475	969	1161	1505	913	398	1750	1143	1239	519	1690	923	1221	1289	1019	956	560	800	867	2195	
El Paso, Tex.	968	1112	1143	975	1304	1445	923	571	818	838	642	397	745	1161	---	973	1218	440	875	393	1400	548	1426
Fargo, N. Dak.	1143	975	---	1304	---	1445	923	571	818	838	642	397	745	1161	---	973	1218	440	875	393	1400	548	1426
Fort Worth, Tex.	751	603	588	773	1252	1492	717	663	---	---	607	1153	554	642	643	925	353	749	970	1468	555	2084	
Galveston, Tex.	560	688	901	498	947	286	675	1935	---	---	607	1153	554	642	643	925	353	749	970	1468	555	2084	
Hastings, Nebr.	808	375	1277	799	477	1423	1423	1423	1423	1423	1423	1423	1423	1423	1423	1423	1423	1423	1423	1423	1423	1423	1423
Hot Springs, Ark.	1025	923	1370	1025	923	1370	1025	923	1370	1025	923	1370	1025	923	1370	1025	923	1370	1025	923	1370	1025	923
Houghton, Mich.	800	867	2195	800	867	2195	800	867	2195	800	867	2195	800	867	2195	800	867	2195	800	867	2195	800	867
Jacksonville, Fla.	2098	1158	663	2098	1158	663	2098	1158	663	2098	1158	663	2098	1158	663	2098	1158	663	2098	1158	663	2098	1158
Kansas City, Mo.	286	675	1935	286	675	1935	286	675	1935	286	675	1935	286	675	1935	286	675	1935	286	675	1935	286	675
Los Angeles, Calif.	1367	2098	1158	1367	2098	1158	1367	2098	1158	1367	2098	1158	1367	2098	1158	1367	2098	1158	1367	2098	1158	1367	2098

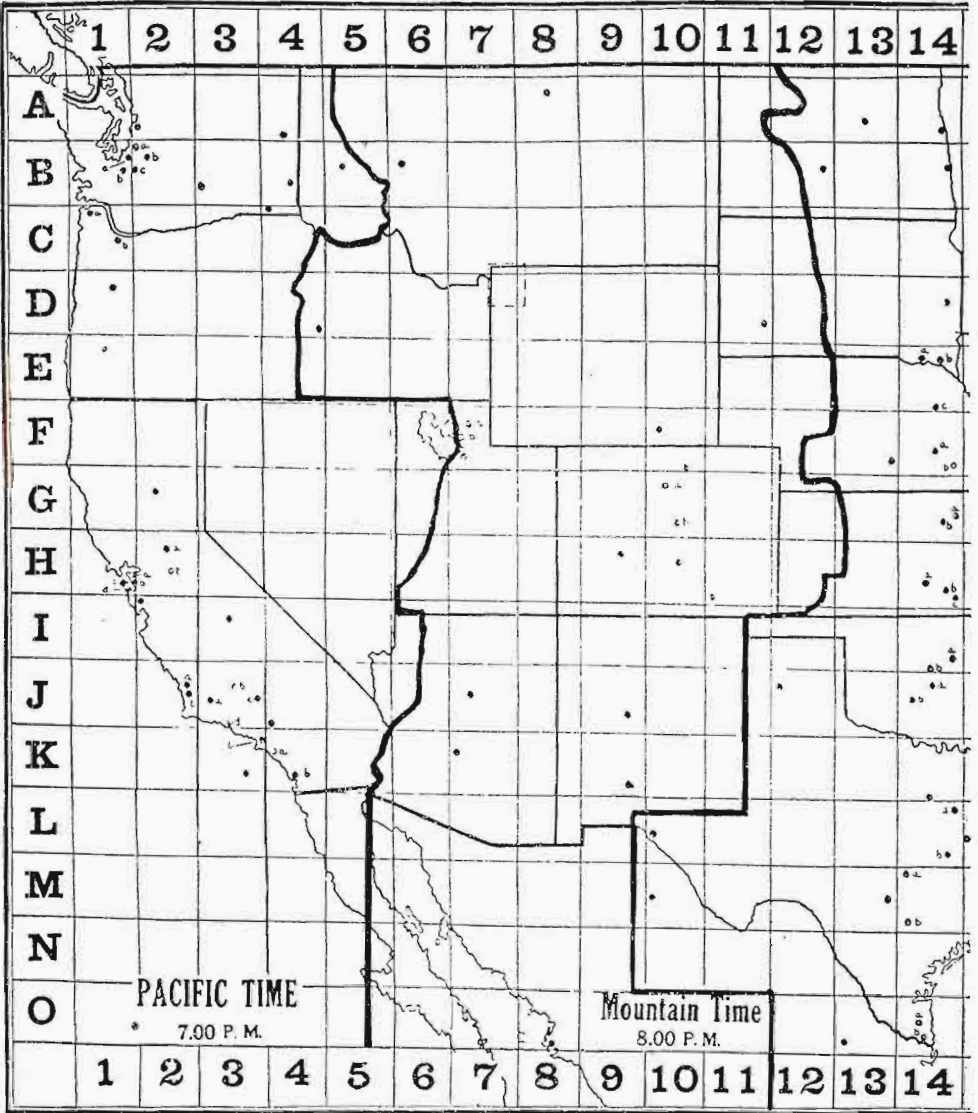
HOW TO USE RADEX

If properly used RADEX will add immeasurably to the pleasure and success in tuning. In the "Index by Frequencies" note that the stations are arranged in groups according to their frequency or "beat." Each station in any of these groups must come in at exactly the same places on the dials as the others in that group. If it does not it is temporarily off its legal frequency and should not be logged. Read the following instructions carefully.

Tune in any station and enter the dial readings in the spaces opposite the frequency or wave-length of that station as shown in the reproduction on this page. Now tune in another station and again enter the dial numbers as before. Continue doing this for as many stations as you can receive. You will notice that your dial numbers have either an ascending or

INDEX BY FREQUENCIES

640 kilocycles 468.5 meters	KFV	1000	San Diego, Calif.
640 kilocycles 468.5 meters	WGS	750	Los Angeles, Calif.
640 kilocycles 468.5 meters	WGS	960	Washington, D. C.
650 kilocycles 461.3 meters	KFV	1000	San Diego, Calif.
650 kilocycles 461.3 meters	WGS	750	Los Angeles, Calif.
650 kilocycles 461.3 meters	WGS	960	Washington, D. C.
660 kilocycles 454.3 meters	KFV	1000	San Diego, Calif.
660 kilocycles 454.3 meters	WGS	750	Los Angeles, Calif.
660 kilocycles 454.3 meters	WGS	960	Washington, D. C.
670 kilocycles 447.5 meters	KFV	1000	San Diego, Calif.
670 kilocycles 447.5 meters	WGS	750	Los Angeles, Calif.
670 kilocycles 447.5 meters	WGS	960	Washington, D. C.
680 kilocycles 440.9 meters	KFV	1000	San Diego, Calif.
680 kilocycles 440.9 meters	WGS	750	Los Angeles, Calif.
680 kilocycles 440.9 meters	WGS	960	Washington, D. C.
690 kilocycles 434.5 meters	KFV	1000	San Diego, Calif.
690 kilocycles 434.5 meters	WGS	750	Los Angeles, Calif.
690 kilocycles 434.5 meters	WGS	960	Washington, D. C.



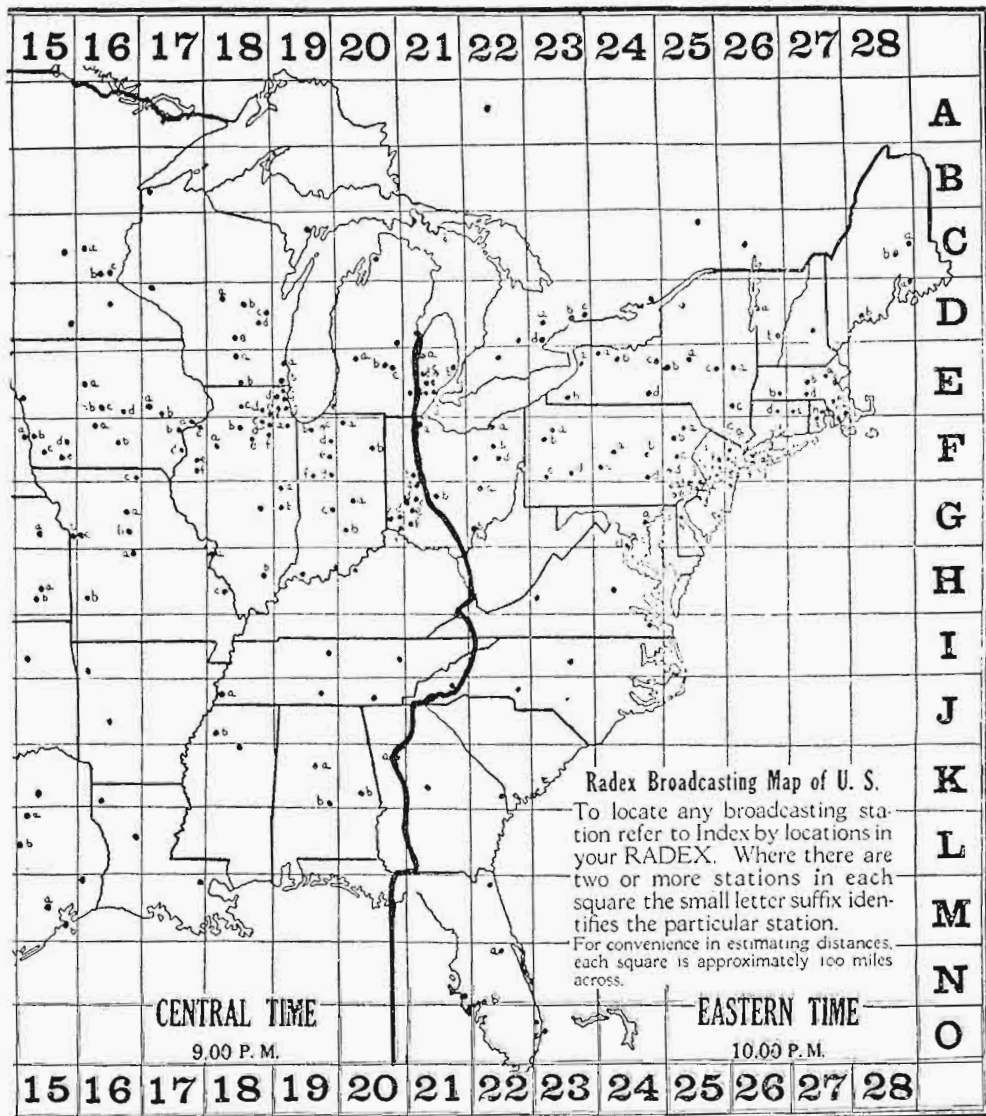
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City and State.....



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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				CJ CJ 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.			
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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			
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CHCK 960				CKCO 690			
Charlottetown, P.E.I.				Ottawa, Ont.			
CHCS 880				CKCR 1010			
Hamilton, Ont.				Brantford, Ont.			
CHCT 840				CKCV 880			
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CHLS 730				CKGW 960			
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CHWC 960				CKOW 840			
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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			
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CNRR	960				KFAU	1050-1230			
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CNRS	910				KFBB	1090-1200			
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CNRT	840				KFBK	1090-1310			
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CNRV	1030				KFBL	1340-1500			
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CNRW	780				KFBU	620-600			
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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			
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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			
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CYX	920				KFI	640-640			
Mexico City					Los Angeles, Calif.				
CYY	550				KFIF	1310-1420			
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KJFJ 1100-1470
 Oklahoma City
KFJI 1200-1370
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KFJM 900-550
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KFJR 1250-1300
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KFJY 1290-1310
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KFJZ 1200-1370
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KFKA 1200-1010
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KFKU 1180-1010
 Lawrence, Kans.
KFKX 570-1000
 Chicago, Ill.
KFKZ 1330-1210
 Kirksville, Mo.
KFLV 1120-1410
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KFLX 1110-1210
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KFMX 1270-1230
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KFNF 650-890
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KFOA 670-1280
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KFQW 1380-1420
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KFQZ 1290-850
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KFRC 660-610
 San Francisco, Cal.
KFRU 1200-630
 Columbia, Mo.
KFSD 680-600
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KFSG 1190-1120
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KFUL 1160-1290
 Galveston, Texas
KFUM 620-1390
 Colorado Spgs., Colo
KFUO 550-550
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KFUP 1320-1500
 Denver, Colo.
KFUR 1330-1310
 Ogden, Utah
KFVD 1390-700
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KFVS 1340-1210
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KFWB 830-950
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KFWC 1210-1200
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KFWF 1400-1200
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KFWI 1120-930
 San Francisco, Calif.
KFWM 1270-930
 Oakland, Calif.
KFWO 1000-1500
 Avalon, Calif.
KFXD 1470-1420
 Jerome, Idaho
KFXF 1060-1120
 Denver, Colo.
KFXJ 1430-1500
 Edgewater, Colo.
KFXR 1340-1310
 Oklahoma City
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WRC 640-950 Washington, D. C.				WSUI 630-970 Iowa City, Iowa			
WREC 1200-600 Memphis, Tenn.				WSUN 580-560 St. Petersburg, Fla.			
WREN 1180-1010 Lawrence, Kansas				WSVS 1470-1370 Buffalo, N. Y.			
WRHF 930-1270 Washington, D. C.				WSYR 1020-550 Syracuse, N. Y.			
WRHM 1150-1230 Minneapolis, Minn.				WTAD 1270-1440 Quincy, Ill.			
WRJN 1210-1200 Racine, Wisc.				WTAG 580-580 Worcester, Mass.			
WRK 1460-1420 Hamilton, Ohio				WTAM 750-1070 Cleveland, Ohio			
WRM 1100-620 Urbana, Ill.				WTAQ 1180-1330 Eau Claire, Wis.			
WRNY 920-1010 New York City				WTAR 1270-780 Norfolk, Va.			
WRR 650-1190 Dallas, Texas				WTAW 620-1120 College Station, Tex.			
WRUF 1480-1470 Gainesville, Fla.				WTAX 1210-1210 Streator, Ill.			

A COMPLETE INDEX BY CALL LETTERS

WTAZ 1360-1210 Richmond, Va.				2BB 1200 Havana, Cuba			
WTFB 1480-1460 Washington, D. C.				2LR 1280 Havana, Cuba			
WTFI 1430-1450 Toccoa, Ga.				2MG 1050 Havana, Cuba			
WTHS 1320-1310 Atlanta, Ga.				2OK 860 Havana, Cuba			
WTIC 560-1060 Hartford, Conn.				2OL 1170 Havana, Cuba			
WTMJ 1020-570 Milwaukee, Wis.				2RK 950 Havana, Cuba			
WWAE 1320-1200 Hammond, Ind.				2TW 1110 Havana, Cuba			
WWJ 850-820 Detroit, Mich.				2UF 1090 Havana, Cuba			
WWL 1220-850 New Orleans, La.				6BY 1150 Cienfuegos, Cuba			
WWNC 1010-570 Asheville, N. C.				6KW 880 Tuinucu, Cuba			
WWRL 1500-1500 Woodside, N. Y.				7SR 860 Eliá, Cuba			
WWVA 580-1020 Wheeling, W. Va.							

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 harbormaster'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 harbormaster 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.
Pulitzer 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 Auto[Co.
Reynolds Radio Co., Inc.
Southwestern Sales Corp.
Strawbridge & Clothier
Chamber of Commerce
Poling Electric Co.
Lit Brothers
Fleetwood Hotel Corp.
Sterchl 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.
WEEL	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

KFRC	1000	San Francisco, Calif.
KGBU	500	Ketchikan, Alaska
WDAF	1000	Kansas City, Mo.
WFAN	500	Philadelphia, Pa.
WIP	500	Philadelphia, Pa.
WOQ	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.
 Loyal 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
 WEAO 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.
 WFAF 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 Cuiver 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.
 WSTAR 500 Norfolk, Va.

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Earl L. White
 Pickwick Brdcastg. Corp.
 Babson's Statistical Organization.
 Memphis Commercial-Appeal
 Reliance Electric Co.
 Virginia Beach Brdcastg. 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
 WPCH 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 & Brdcastg. 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 Brdcastg. 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

KFNE 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 Outler 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
WBL	1000	Stevens Point, W
WMAK	750	Buffalo, N. Y.

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Anchorage Radio Club
Don Lee, Inc.
The Onondaga Co., Inc.
WKY Radlophone Co.
Wisconsin Dept. of Markets
WMAK Brdestg. Statlon, 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.
KCCH	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.
WAAP	500	Chicago, Ill.
WCSS	500	Portland, Maine
FTIW	1000	Hopkinsville, Ky.

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Marion A. Mulrony
KOIN, Inc.
Drovers 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.
KMBC	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

KFFA 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 Cliffside, N. J.
 WQAO 250 Cliffside, N. J.
 WREN 500 Lawrence, Kansas
 WRNY 250 New York City

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
 Calvary Baptist Church
 Jenny Wren Co.
 Experimenter Publishing Co.

1020 kilocycles 293.9 meters

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

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.

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

Western Broadcast Co.
 Bankers Life Co.
 Iowa State College

1060 kilocycles 282.8 meters

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

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

1070 kilocycles 280.2 meters

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

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.

C. C. Coddington
 Durham Life Insurance Co.

1090 kilocycles 275.1 meters

KMOX 5000 St. Louis, Mo.

Voice of St. Louis

1100 kilocycles 272.6 meters

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

Missionary Society of St. Paul
 Municipality of Atlantic City

1110 kilocycles 270.1 meters

WRVA 5000 Richmond, Va.

Larus & Bros. Co., Inc.

1120 kilocycles 267.7 meters

KFEL 250 Denver, Colo.
 KFSG 500 Los Angeles, Calif.
 KFXX 250 Denver, Colo.
 KMIC 500 Inglewood, Calif.
 KRSC 50 Seattle, Wash.
 KUT 500 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

Eugene P. O'Fallon, Inc.
 Echo Park Evng. 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.

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

1140 kilocycles 263.0 meters

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

Alabama Polytechnic Institute
 City of Jacksonville

1150 kilocycles 260.7 meters

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

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

1160 kilocycles 258.5 meters

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

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

1170 kilocycles 256.3 meters

WCAU 5000 Philadelphia, Pa.

Universal Broadcasting Co.

1180 kilocycles 254.1 meters

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

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

1190 kilocycles 252.0 meters

WOAI 5000 San Antonio, Texas
 WRR 5000 Dallas, Texas

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.
 KCEK 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.
 KPFC 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.
 WCA X 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.

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
 Jarco Drug Co.
 J. Albert Loesch
 Beehler Elec. Equipment Co.
 E. R. Irey and F. M. Bowles
 City of Fort Morgan
 Kittson County Enterprlse
 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 Brdcastg. Corp. of Ky.

INDEX BY NEW FREQUENCIES AND DIAL NUMBERS

WLBF	100	Kansas City, Mo.
WLBG	100	Petersburg, Va.
WMAV	100	St. Louis, Mo.
WNBO	15	Washington, Pa.
WNBW	5	Carbondale, Pa.
WNBX	10	Springfield, Vt.
WPRC	100	Harrisburg, Pa.
WQBJ	65	Clarksburg, W. Va.
WQBZ	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.

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. Courrier

1210 kilocycles 247.8 meters

KDLR	100	Devils Lake, N. Dak.
KFKZ	50	Kirksville, Mo.
KFLX	100	Galveston, Texas
KFOR	100	Lincoln, Nebr.
KFPY	100	Spokane, Wash.
KFVS	50	Cape Girardeau, Mo.
KGBX	100	St. Joseph, Mo.
KGCB	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	100	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.
WLBV	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.

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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 Denmark, Inc.
 Harry H. Carman
 Beardsley Specialty Co.
 Citizens Bank
 Capital Times-Strand Theatre
 Radlotel 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. Reyuolds and T. J. McGuire

1220 kilocycles 245.8 meters

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

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

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.

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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 Brdcastg. 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
WLBW	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 Brdcastg. Co.
Franklyn J. Wolff

1290 kilocycles 232.4 meters

KFUL	500	Galveston, Texas
KLCN	50	Blytheville, Ark.
KTSA	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

KPH	500	Wichita, Kansas
KFJR	500	Portland, Ore.
KGFE	1000	Los Angeles, Calif.
KTBI	1000	Los Angeles, Calif.
KTBR	500	Portland, Ore.
WBRR	1000	Rossville, 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

KFIU	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 Brdcstg. Assn.
KGFT	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
WBMH	100	Detroit, Mich.	Braun's Music House
WBOW	100	Terre Haute, Ind.	Banks of Wabash Brdcstg. Assn.
WBRE	100	Wilkes-Barre, Pa.	Louis G. 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
WFBG	100	Alroona, Pa.	Wm. F. Gable Co.
WDFD	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.
WJAK	50	Kokomo, Ind.	J. A. Kautz-Kokomo Tribune
WKAV	50	Laconia, N. H.	Laconia Radio Club
WKBB	100	Joliet, Ill.	Sanders Bros.
WKBC	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
WMPG	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 Brdcstg. 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

KGHB	250	Honolulu, Hawaii
KGHF	250	Pueblo, Colo.
KSEI	250	Pocatello, Idaho
WBET	500	Boston, Mass.
WCWK	500	Fort Wayne, Ind.
WMAF	500	South Dartmouth, Mass.
WSMB	750	New Orleans, La.

Radio Sales Co.	C. P. Ritchie & J. E. Finch	KSEI Broadcasting Assn.
Boston Transcript Co.	Chester W. Keen	Round Hills Radio Corp.
Saenger Theatres & Maison Blanche		

1330 kilocycles 225.4 meters

KSCJ	1000	Sioux City, Iowa
WCAC	500	Storrs, Conn.
WDRC	500	New Haven, Conn.
WTAQ	1000	Eau Claire, Wis.

Perkins Bros. Co.	Conn. Agricultural College	Doolittle Radio Corp.
C. S. Van Gorden		

1340 kilocycles 223.7 meters

KFPW	50	Sulphur Springs, Ark.
KGB	250	San Diego, Calif.
KMO	500	Tacoma, Wash.
KVI	1000	Tacoma, Wash.
WADC	1000	Akron, Ohio
WFJC	500	Akron, Ohio

Rev. Lannie W. Stewart	Southwestern Brdcstg. Corp.	KMO, Inc.
Puget Sound Radio Brdcstg. Co.	Allen T. Simmons	W. F. Jones Co.

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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.
 WKBQ 250 New York City
 WMSG 250 New York City

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

1360 kilocycles 220.4 meters

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

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

1370 kilocycles 218.7 meters

KFEC 100 Portland, Ore.
 KFEY 10 Kelloög, Idaho
 KFJI 50 Astoria, Ore.
 KFJZ 100 Fort Worth, Texas
 KFPL 15 Dublin, Texas
 KGAR 100 Tucson, Ariz.
 KGCI 100 San Antonio, Texas
 KGEX 10 Yida, Mont.
 KGER 100 Long Beach, Calif.
 KGFG 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.
 WDWL 100 Cranston, R. I.
 WFBJ 100 Collegeville, Minn.
 WFCI 100 Pawtucket, R. I.
 WGCM 15 Gulfport, Miss.
 WHBD 100 Bellefontaine, Ohio
 WHBQ 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 Brdcastg. 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 Statlon WHBQ, Inc.
 C. L. Carrell
 Financial Journal, Inc.
 Ernest F. Goodwin
 Valdemar Jensen
 The Lincoln Studlos, 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
 WCGO 500 Springfield, Ohio
 WHBL 1000 Sheboygan, Wis.
 WKBH 1000 La Crosse, Wisc.

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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 Brdcastg. 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.

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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
KFXY	100	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
WRSO	100	Middletown, Ohio
WSSH	100	Boston, Mass.

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Benson Polytechnic Institute
KFQW, 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	Lemoyne, 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.
WMAG	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.
Hls. 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
Bremier 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

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

National Battery Brdcastg. Co.
Independent Publishing Co.

1470 kilocycles 202.6 meters

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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

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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 Brdcastg. Corp.

1490 kilocycles 201.2 meters

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

Waldrum Drug Co.
Life & Casualty Insurance Co.

1500 kilocycles 199.9 meters

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KFBL 50 Everett, Wash.
KFCR 100 Santa Barbara, Calif.
KFQU 100 Holy City, Calif.
KFUP 100 Denver, Colo.
KFXJ 50 Edgewater, Colo.
KFPYO 100 Breckenridge, Texas
KFWO 100 Avalon, Calif.
KGBR 100 San Antonio, Texas
KGBK 100 Goldthwaite, Texas
KGHI 15 Little Rock, Ark.
KGHX 50 Richmond, Texas
KGT T 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.
WHBW 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.
WMB A 100 Newport, R. I.
WMBM 10 Memphis, Tenn.
WMBQ 100 Brooklyn, N. Y.
WMES 50 Boston, Mass.
WNB F 50 Endicott, N. Y.
WNBQ 15 Rochester, N. Y.
WOO 100 Philadelphia, Pa.
WPSW 50 Philadelphia, Pa.
WRBJ 10 Hattiesburg, Miss.
WSAN 100 Allentown, Pa.
WWRL 100 Woodside, N. Y.

Leese Bros.
Santa Barbara Brdcastg. 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 Fiske
D. R. Kienzle
Alexander D. Trum
Knox Battery & Electric Co.
K. L. Ashbacher
John N. Brahy
William S. Pore
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.

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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.

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PROGRAM	CALL	DIAL NUMBERS			DAY	HOUR

