# Stevenson's RADIO BULLETIN





"Dixie" Bond
"The Girl With a Golden Voice"



#### IN THIS ISSUE

Revised Broadcasting Log
Chain Program Guide
Engineers Promise Better Reception

SPRING 1929

**PRICE 25 CENTS** 

TONIGHT'S CHAIN PROGRAM

Weekly Program of Features of Broadcasting Chains. Eastern Standard Time is given. Central Time is one hour earlier.

Mountain Time two hours earlier and Pacific Time three hours earlier.

Only features engaging ten or more stations after 7:00 P. M. (except Sunday) are listed. Minor changes are made from time to time, but this list will be found substantially correct.

NBC indicates National Broadcasting Company chains, and CBS Columbia Broadcasting System chains. Stations are arranged ALPHABETICALLY.

		stem chains,	Otations a.	ie airanged	L 0.30 0.30		· /NIF	100	
		Sunday			KSD	A. & P. Gy WEAF	psies (NE WGR	WRC	13/70 4 3 4
P. M.					WCAE	WEEI	WGY	WSAI	WTAM WTIC
6:00-6:30 S					WCSH	WGN	WJAR	WTAG	WWJ
KOA	WCSH	WGR	WMC	WSM	WDAF				
KPRC KSD	WDAF WEAF	WGY WHAM	WOAI WOW	WTAG WTIC		Automatic			
KVOO	WEEL	WHAS	WRC	WTMJ	KDKA KOA	KWK KYW	WBZ WBZA	WHAM	WLW
WBT	WFI	WJAR	WSAI	WWJ	KSTP	WBAL	WDZA	WJZ	WREN
WCAF	WGN				8:30-9:00	The Captiv	ators (CI	35)	
6:30-7:00	Acoustice	on Hour (	NBC)		KMBC	WAIU	WJBL	WKRC	WMAQ
KSD	WEAF	WHY	WRC	WTAM	KMOX	WCAQ	WGHP	WMAF	WNAC
WCAE WCSH	WEEI WFI	WJAR WOW	WSAI WTAG	WTIC WWJ	KOIL	WCAU WCCO	WHK	WMAK	WOR
WDAF	WGR	****	WIAG	** ***3	WABC WADC	WECO	WICC WJAS	WMAL	wowo
6:30-7:00 W		nglo Pers	ians (NB	C)		Lowney Ra		(CRS)	
KDKA	KWK	WBZ	WJR	WREN	KMBC	WAIU	WJBL	WKRC	WMAQ
KOA	KYW	WBZA	WJZ	WTMJ	KMOX	WCAO	WGHP	WMAF	WNAC
KSTP	WBAL	WHAM	WLW		KOIL	WCAU	WHK	WMAK	WOR
7:00-7:30 O					WABC	wcco	WICC	WMAL	wowo
WCSH	WEEI	WGR	WJAR	WTAG	WADC	WFAN	WJAS		(315.0)
WEAF	WFI	WGY	WRC	WTIC		General M			
7:30-9:00 M				11/7P 1 2 4	KFI KGO	KVOO WBT	WFAA	WLIT	WSM
KSD WCAE	WGY WHAS	WMC WOW	WSAI WSB	WTAM WTIC	KGW	WCAE	WGN WGR	WMC WOAI	WTAG WTAM
WEAF	WJAR	WRC	WSM	WWJ	KHQ	WCSH	WGY	wow	WTIC
8:15-9:15 C				5	↑ KOMO	WDAF	WHAS	WRC	WTMJ
KDKA	WBAL	WHAM	WLW	WRHM	KPRC	WEAF	WJAR	WSAI	WWJ
KWK	WBZ	WJZ	WREN	WTMJ	KSD	WEEL	WJAX	WSB	
KYW	WBZA				9:30-10:00 KDKA	Real Folk		137.170	****
8:30-9:00 L					KWK	KYW WBZ	WBZA WHAM	WJR WJZ	WLW WREN
KMBC	WAIU	WJBL	WKRC	WMAQ	9:30-10:00	Warner B		itanhana	Lubilee
KMOX KOIL	WCAU	WGHP WHK	WMAF WMAK	WNAC	Hour		rothers v	rtaphone	Jubliee
WABC	WCAU WCCO	WICC	WMAL	WOR WOWO	KMBC	WAIU	WJBL	WERC	WALLO
WADC	WFAN	WJAS	WINIAL		KMOX	WCAO	WGHP	WKRC WMAF	WMAQ WNAC
9:00-9:15		Governme	nt By	David	KOIL	WCAU	WHK	WMAK	WOR
	ice (NBC				WABC	wcco	WICC	WMAL	wowo
KSD	WEAF	WHAS	wow	WSM	WADC	WFAN	WJAS	1	<b>5</b> .01
KVOO	WFAA	WJAR	WRC	WTAG	10:00-11:00	United C	pera Con	npany (C	
WCAE	WGR	WMC	WSAI	WTIC	KMBC	WAIU	WJBL	WKRC	WMAQ
WCSH		T 101	1.0	(CDC)	KMOX KOIL	WCAO WCAU	WGHP WHK	WMAF WMAK	WNAC WOR
9:00-10:00 N					WABC	wcco	wicc	WMAL	wowo
KMBC KMOX	WAIU WCAO	WJBL WGHP	WKRC WMAF	WMAQ WNAC	WADC	WFAN	WJAS		
KOIL	WCAU	WHK	WMAK	WOR	10:30-11:00	0 Empire E	Builders (1	NBC)	
WABC	wcco	WICC	WMAL	wowo	KFI	KSD	WEAF `	WJÁR	WRC
WADC	WFAN	WJAS			KGO	KSL	WEBC	WKY	WSB
9:15-10:15		Kent Radi	o Hour (I	NBC)	KGW KHQ	KSTP KYW	WEEI WFAA	WLIT WMC	WTAG
KOA	WCAE	WGN	WOAI	WSB	KOA	WBT	WGR	WOAL	WTAM WTIC
KPRC	WEAF	WGR	wow	WSM	KOMO	WCAF	WGY	WOC	WTMJ
KSD KVOO	WEEI WFAA	WGY WMC	WRC WSAI	WTAM WWJ	KPO	WCSH	WHAS	wow	WWJ
WBT	WFI	WIVIC	WSAI	** ** 3	KPRC	WDAF		(2.50	~`
10:00-10:30		st Audions	(CBS)			0 National			
KMBC	WAIU	WJBL	WKRC	WMAQ	KSD WCAE	WEBC	WHAS	WOW	WSAI
KMOX			WMAF	WNAC		WFAA	WLIT WOC	WRC	wwj
	WCAO	WGHP		WOR	WFAF	WCR			
KOIL	WCAU	WHK	WMAK		WEAF	WGR			
KOIL WABC	WCAU WCCO	WHK WICC		wowo	WEAF				
KOIL WABC WADC	WCAU WCCO WFAN	WHK WICC WJAS	WMAK WMAL	wowo		T	uesday	am (NBC)	
KOIL WABC WADC 10:15-10:45	WCAU WCCO WFAN Studeba	WHK WICC WJAS ker Motor	WMAK WMAL s Progran	wowo n (NBC)	8:30-9:00	To Prophylac	uesday tic Progra		
KOIL WABC WADC	WCAU WCCO WFAN Studeba WBT WCAE	WHK WICC WJAS ker Motor WGR	WMAK WMAL s Prograr WLS	wowo n (NBC) wsb	8:30-9:00 KSD WCAE	Tophylac WDAF WEAF	uesday tic Progra WFI WGR	WJÀR WOW	WTAG WTIC
KOIL WABC WADC 10:15-10:45 KGO KGW KOA	WCAU WCCO WFAN Studeba WBT WCAE WCSH	WHK WICC WJAS ker Motor WGR WGY WHAS	WMAK WMAL s Prograr WLS WMC WOAI	WOWO n (NBC) WSB WTAG WTAM	8:30-9:00 KSD WCAE WCSH	Trophylac WDAF WEAF WEEI	uesday tic Progra WFI WGR WGY	WJAR WOW WRC	WTAG
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# Stevenson's RADIO BULLETIN

Volume 6

MARCH, 1929

Number 1

Many of our readers have asked us how to make their receiving sets more selective. They have trouble in getting other stations when some particular broadcaster is on the air.

If the length of the antenna is shortened, it will make the set more selective. It will also make the set less sensitive. If it is possible to install a loop antenna, it will greatly increase the selectivity of the set because of its directional effects.

A condenser can be installed in the antenna circuit. But this generally requires an expert.

A wave trap is generally very beneficial. Any number of wave traps may be purchased at small cost from radio dealers who should be able to explain their operation.

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### Published Quarterly by STEVENSON'S RADIO BULLETIN

1220-1222 H Street, N. W., Washington, D. C.

THOMAS STEVENSON, Editor. RICHARD M. NASH, Circulation Manager. W. W. RAPLEY, Treasurer and Business Manager. PETER BECKER, JR., Advertising Manager.

STEVENSON'S RADIO BULLETIN (formerly Stevenson's Bulletin of Radio Broadcasting Stations) is published quarterly. Publication dates are September, December, February and July. The subscription price is \$1.00 per year, \$1.50 for two years. All subscriptions are payable in advance. Unless otherwise directed, new subscriptions will begin with current issue. When advising us of change of address, please give old address as well as new.

Entered as Second Class matter January 16, 1925, at the Postoffice at Washington, D. C., under the Act of March 3, 1879.

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# He Forgot All About It!

HAT painful look of consternation on the face of the gentleman to the left . . . there's a reason for it! He just remembered that the big football game of the season will be broadcast this afternoon . . . that the Gumps are coming over for dinner . . . and that Mary, his daughter, is having some boys

and girls in for dancing later on. All of which means that the Radio will be working over-time this evening.

And JUST NOW it flashed across his mind that he had forgotten to get a new copy of STEVENSON'S RADIO BULLETIN. Wait until you see his expression when he tries to figure out how he can bring in the broadcasting stations he will want without those embarrassing delays, screeching of static, and what have you, that always occur when one is "fishing" blindly for stations.

Stevenson's Radio Bulletin is the Telephone Directory of Radio Broadcasting. Just select the station you want, look up the dial numbers, tune in, and sit back and enjoy yourself. Stevenson's contains up to date, complete listing of all stations by call letters, location, wave lengths, kilocycles, power, etc., and brief, clear instructions for "calibrating" your set so that you can instantly bring in any station within the range of your set, whether or not you have ever heard or logged it before!



### Double Your Radio Enjoyment With Stevenson's

Don't miss the host of good things on the air. Provide now for a new up-to-date list of all stations in a compact usable form, the latest Chain Program Guide, the latest news on every phase of radio. An excellent gift for your Friends... Gift card enclosed with first issue!

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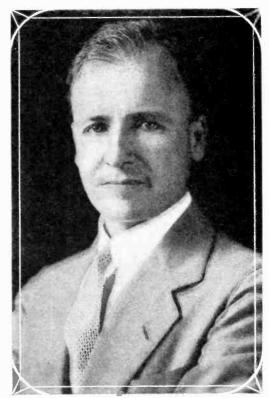
# ENGINEERS PROMISE Better RECEPTION

By Dr. J. H. Dellinger, Chief Engineer, Federal Radio Commission

THE legal and political problems of radio regulation owe much of their interest to the complex physical phenomena involved. If it were not for the limitations imposed by the nature of radio waves, radio legislation would be easy or even perhaps unnecessary. Radio administration must be founded on intimate knowledge of the engineering facts inherent in the problems that arise.

There is one basic principle whose implications face us at every turn in governmental regulation of radio. This is the simple fact that the number of communication channels is definitely and severely limited. The number of channels is being increased from time to time, as radio technique develops, but at any given time there are only a limited number of communication channels. If stations are permitted to operate in excess of the capacity of these channels extensive interference develops, and radio operation becomes unsatisfactory.

The fact that the number of channels is limited and the number of stations assignable to any one channel is again limited, imposes upon the Government the necessity of choice among applicants for the radio channels. This is indeed the underlying reason why a Federal Radio Commission came to be created. To provide for choice among those who aspire to construct and use radio stations, Congress created not only the Commission as its instrument to make the choice, but also a judicial principle to be the basis of choice, viz. the



DR. J. H. DELLINGER

principle of public convenience, interest or necessity.

It was the congestion in the broadcast band which spurred Congress to this legislation. Only in that band of frequencies did the number of applicants for licenses exceed the supply of channels, in early 1927, when the law was passed. The condition has extended, however, and the demand now exceeds the supply in the high-frequency band as well as in the broadcast band.

The broadcasting band, which has hitherto occupied the chief attention of the Commission, exhibits a number of very special engineering problems. Here the width of each channel is 10 kilocycles, which is necessary to carry satisfactory speech or music. With only 90 such channels, and more than 600 stations on them, there was naturally very great interference. To remedy this, the Commission had to choose among various alternatives.

It decided as a matter of policy not to reduce radically the total number of stations. It was then necessary to (a) limit the simul-

taneous operation of an excessive number of stations by making many of them divide time; (b) assign frequencies carefully selected with regard to geographical separation of stations, to reduce inter-channel interference (i. e., disturbance of reception of a station on one frequency by other stations on adjacent frequencies); and (c) limit the power of stations so they would not cause interference to other stations on the same frequency.

The accomplishing of this constituted the new allocation of broadcasting stations which the Commission put into effect on November 11.

The most striking of the problems involved in the new allocation, was the carrying out of requirement (c) just mentioned. Stations assigned to the same frequency have not, up to the present, been able to maintain their frequencies with sufficient accuracy to prevent the existence of a slight difference of beat frequency, producing what is commonly known as heterodyne interference or whistles.

Unfortunately the heterodyne interference reaches out to much greater distances from a station than the program. Consequently the operation of two or more stations on a channel results in an area of destructive interference far in excess of the area in which program service is provided. For instance, a 5-kilowatt station's program can be heard with fair intensity under good conditions at 100 miles while the heterodyne interference from two such stations is heard at 3,000 miles. stations of 5 kilowatts or more therefore can not be assigned the same frequency. possible to put two or more one-kilowatt stations on the same frequency if they are at least 1,800 miles apart, and two or more one-half kilowatt stations if they are at least 1,200 miles apart.

All stations subject to these restrictions have only a small service area, and give no service to remote rural areas. Such distant service is given only by stations having exclusive use of the channels to which they are assigned. In order to provide rural service the Commission designated 40 channels each to be used by one station exclusively.

The stations on the exclusive channels not only serve very great areas but deliver a more satisfactory intensity at every point within those areas. Their service is better for all concerned, the greater the power they use. This fact is not commonly understood by others than radio engineers. It is clear when the distinction between the exclusive and the other channels is comprehended. Service on the non-exclusive channels would be utterly ruined if the power limits fixed by the facts of heterodyne interference should be exceeded, and in consequence such stations can not in general use more than 1 kilowatt.

But on the exclusive channels the service is better the higher the power level, and indeed such stations will not be serving the public most effectively until the level reaches hundreds of kilowatts.

There is some hope that the limitation of power and service on the non-exclusive channels may be overcome. If the frequencies of stations on the same channel are maintained to a certain very high accuracy, the heterodyne or whistle becomes inaudible. The technique of frequency control is fast approaching this goal and success has been attained in isolated The satisfactory service area of such "synchronized" stations is not yet known, but it is believed that it will be substantially greater than when heterodyne interference The significance of this is that the present power limits on the "regional" and "local" stations can be raised, better service given, and wider areas served. Synchronization is therefore looked for as the next great advance in broadcasting.

Other regulations of the Commission also involve engineering problems. There are now in progress studies which will lead to new regulations. Some of the subjects are: The requirement of a dummy antenna in broadcasting stations for use during warming-up periods, etc.; the location of high-power stations with respect to populous areas; requirement of highly accurate frequency control; allowable ratio of day to night power; permissible intensity of harmonics; percentage modulation, and fidelity of transmission.

# LUCREZIA BORI Puzzled Parents and Critics

L UCREZIA BORI, soprano of the Metropolitan Opera, puzzled her parents and critics for many years. They couldn't understand where she had learned so many operatic songs.

Bori is rapidly becoming known throughout the world as one of the greatest of singing actresses and likewise one of the finest of vocal artists. She has been heard over the radio a number of times. On the evening of February 11, she was the guest star of the General Motors Family Party.

Born in Valencia, Spain, and inheriting an understanding of poetry and rhythm for music that is latent in the Spanish people, Bori developed a voice and fame as an interpreter of character in song at the age of six.

It was only until she had achieved world fame that her wide operatic repertoire was explained.

It seems that the Bori residence in Valencia was directly across the street from the opera house. Each night at about the time the operas were scheduled to begin, the child's parents would send her upstairs to bed. They were always surprised to find that she went without any complaint, but they did not know at the time that as soon as she was left to herself she would crawl out of bed to a balcony which overhung the narrow street, and was only a few feet from the opera house.

There she would lie absorbing the music until she heard her parents start upstairs at their bed time. Then she would scamper into bed and pretend to be asleep. In this way, she learned most of the operas as a child.

Bori's ability to express the meaning of musical emotions of all types was made mani-



LUCREZIA BORI

fest immediately after she had made her debut on the operatic stage, and all Europe hailed her as a new type of singer. Bori puts the idea of her songs first and foremost, and her magnificent technical equipment is never apparent.

She makes the shy, meek and mousey Mimi of "La Boheme," or the tender and trusting O Mimosa San of "Madame Butterfly," or the brilliant and dazzling Violetta of "La Traviata" all striking portraits of real women.

She first came to the Metropolitan Opera in New York in 1912, with a reputation extending from Europe to South America. Since coming to America she has developed into an even greater singer.

### Children Make

### Very Good Radio Actors

HILDREN show more aptitude for radio dramatics than their elders. Children's parts, however, are far more difficult to cast satisfactorily, according to dramatic directors, who look forward with mixed feelings to programs in which children are featured.

The success of the young actors is probably traceable directly to their freshness. With the best of them, the imagination is immediately stirred, and in no time at all the child has entered wholly into the character. The result is a highly desirable naturalness, directors say.

Most children have a tendency at the beginning to speak their lines as if they were "speaking a piece," and unless the director can eradicate this he will not be able to use the child on the air. Generally speaking there seems to be no great difference in this respect between professional stage children and those who never have appeared before an audience.

The greatest difference between children

who have been trained for the stage and those who have not is that the young professionals take their work much more seriously and can stay at it longer without losing interest.

Voices among children are a problem for the director who plans to use more than two of them. Each voice must be distinct in quality from the others. yet there is much less difference between the voices of several children than in the voices of the same number of adults.

Rehearsals often demonstrate that two or more children out of a cast of five will not do for their parts. Even if their voices have individuality, they may be lacking in the spirit of "let's pretend." And if one small member of the cast does not get along well with another, one or both must be replaced. Children cannot work well before the microphone, directors say, unless they are enjoying it.

Much use is made of the fact that children are natural mimics. By thorough explanation, and sometimes by snatches of impersonations, successful directors make clear to each small actor the kind of boy or girl he or she is supposed to be.

Children usually have no fear of the microphone and are perfectly at home before it. Often they seem almost to be playing together in a room, with no spying grown-ups to spoil

the fun.

Younger children who have gained radio experience under one director seldom do so well under another director until several weeks have passed.

Men have as much success in handling children before the microphone as women do. They have an advantage with older boys, but lose it with very small children.



JOLLY BILL AND JANE

# Broadcasters TRY to BE FAIR in Covering Contests

B ROADCASTERS are as careful as newspapers in keeping an impartial attitude toward participants in any great contest, be it collegiate, pugilistic or political. Perhaps the broadcasters are more careful than newspapers, for editorial opinions are not considered good form by the big radio organizations.

Despite this caution, hundreds of protests and accusations of partiality follow each important broadcast. And the protests aren't evenly divided. This condition worried the radio people until the situation was analyzed.

Then came the realization that the loser, or rather, many of his representatives or adherents, always claim that he didn't get a square deal in the matter of radio coverage of the contest. The announcer was biased, the break in the wire lines was planned to embarrass him or an extra amount of static was arranged to spoil the story of his heroic though losing fight.

David Lawrence, political expert, realized this when he was telling the story of the recent national election. During the early evening when election returns were first coming in and there were indications of a Smith victory, telegrams began coming in from listeners: "Throw out your announcer—he's a Democrat," or "Believe you must have sold out to the Democrats," were phrases used in the wires.

The tide turned around 10 o'clock that night and the Hoover vote began to mount. The telegrams changed, too. Instead of accusations to the Democrats, the telegrams denounced the announcers as dyed-in-the-wool Republicans, and demanded that the Democratic party be given a square deal.

When Graham McNamee, veteran announcer, described the Dempsey-Tunney battle



DAVID LAWRENCE

in Chicago, he was accused of being a Tunney backer because Tunney won.

When Phillips Carlin and McNamee described the recent New York-St. Louis World Series they were denounced as Yankee fans. Several years before, when St. Louis won the pennant, the protestants were certain that McNamee swung all his influence to the Cardinals.

During the Army-Harvard football game last fall, Carlin, who told the story, was declared to be prejudiced in favor of the Army—these declarations coming after the game, of course.

The announcer of contests naturally strives to inject as much color as possible into his description of the event. Unless the radio version is to be a dry, uninteresting statement of the facts, the announcer is obliged to praise the winner.

Listeners who are dissatisfied with the announcements, should always keep in mind that if the tables were reversed, if the Democrats had won instead of the Republicans, the announcers would have been first in paying tribute to them. In other words, they are for the winner,

### Classical JAZZ

### is Music

### of AMERICA

MERICAN music will find its fullest expression in classical jazz. I appeal to American composers to devote themselves to this type of music, since it is in classical jazz that America will find its greatest musical expression. We need composers who will devote themselves to the development of classical jazz, the sort of thing that Gershwin has done in his 'Rhapsody in Blue.' Unfortunately, we conductors who are eager to help, feel a distinct lack of jazz compositions that are classical rather than purely popular in nature."

Those are the sentiments of Hugo Mariani, conductor of the Mediterraneans and other crack orchestral units, who has been heard over the air for more than two years. Mariani is one of the outstanding exponents of what he calls "Classical Jazz—the music of America."



HUGO MARIANI

Montevideo, Uruguay, is the place of Mariani's birth. As is the way with people of musical genius, his career has been precocious. Before he was twenty-one, he was conductor of the National Symphony Orchestra of Uruguay and first violin in a string quartet. Eight years ago he came to the United States, toured the country with recitals and finally established himself in New York as concertmeister and assistant conductor of the Rialto Orchestra.

Mariani's marital career is no less picturesque. His wife is Nella Barbu, a painter of some repute. Add to this the fact that she is a Rumanian and you have a combination of talents and nationalities that assures the Mariani family a maximum rating in artistic temperament.

"I find it much more difficult to conduct before the microphone than in the concert hall,"
says the leader of the Mediterraneans. "The
concert program can be rehearsed for weeks
before presentation to the public. With the
radio program, we have to work more quickly,
since rehearsals are limited. For another thing,
there is rarely time to score my arrangements
ahead of time, and I have to work them out as
I go along."

"I must admit, however, that I don't mind these handicaps, because conducting for the radio is more interesting than conducting in the concert hall. It is more varied and more experimental. It requires a special technique, the attainment of which is never final, since new and better methods are constantly evolved."

Mariani is not too high-brow for straight jazz, real jazz, the sort of throbbing, tom-toming jazz that makes you dance. He knows that there is music for different moods. But classical jazz is his true love.

# RED-HEADED! But She CONTROLS Her TEMPER

RED-HAIRED Mexican girl who hasn't lost her temper in fifteen years (which means when she was very young), is the soprano who sings those colorful songs in El Tango Romantico, the romantic program of Latin-American cabaret life broadcast through NBC system.

Senorita Raquel Nieto calls Mexico City her home town, although she was born in Jalapa, a fashionable resort near Vera Cruz, twenty-two years ago. It was in Mexico City that she received most of her education, and it was there that her voice caught the attention of the President, who arranged for her to take a special course at the National Conservatory. There she justified the President's faith in her voice, by immediately beginning to take prizes. When she was graduated four years later she took first prize and went on a tour of the principal cities of the country.

Senorita Nieto's sole fit of red-headed anger occurred when she was about seven years old. Since she was four years old she had been studying music with her mother, who loved it, and who took it up so she could teach her daughter.

A violin began it all. The little girl became extremely fond of the instrument on which she practiced. After three years of study it was decided she deserved a better one.

That was all very well, but the little violinist did not want a new instrument, and when her mother attempted to take the old one away the red-headed temperament displayed itself. Eventually, however, the new violin won its way.

Two years or so later a great Mexican



RAQUEL NIETO

singer heard Raquel singing to herself as she practiced on the new violin and recommended that attention be given to her voice. Instruction followed, and the results were so good that she won her place at the National Conservatory. She still played the violin but not professionally.

After the tour of Mexico which followed her graduation, Senorita Nieto toured Texas and California, singing Spanish and Mexican folk songs. A year ago Raquel came east, where much of her time has been devoted to broadcasting and making records. She expects to keep at it, for when she goes on concert tours it is much harder for her to indulge her hobbies.

The first of these is embroidery, and so great is her skill with the needle that her work has been compared with painting. The other is Mexican food. She likes American cooking, but every now and then she becomes a little homesick, and nothing but a meal of enchiladas, heuves rancheros and other dishes from across the Rio Grande will serve to drive it away.

Senorita Nieto likes the movies, too. Tom Mix and Douglas Fairbanks are her favorites.



HAROLD A. LAFOUNT

HE Commission has always felt the necessity for some kind of regulation of chain programs. The thought back of it was that the listener who can bring in a number of stations on his set should be able to get as many different kinds of programs as possible.

When the reallocation of November 11, was adopted, the Commission voted that stations on cleared channels must be 300 miles apart before duplicating each other's programs. It was believed that this regulation would prevent many of the existing duplications.

I still believe that the 300-mile order would eliminate a lot of duplications. But I am convinced that while it might benefit some communities, it would work hardship on many others. Therefore, a majority of the commissioners voted to postpone the effective date of the 300-mile order until March 1. It is quite probable that the 300-mile order may never be put into effect. I cannot predict about that, however, because I am only one member of the Commission.

It was not that I disapproved of chain regulation that I voted against the 300-mile order. It was because I did not believe it the satisfactory solution of the problem.

# Radio Commission MAY REGULATE Chain Programs

By HAROLD A. LAFOUNT Federal Radio Commissioner

The difficulty is that all stations cannot be depended upon to perform alike or consistently.

For a station in New York, which gets out well on all sides, the 300-mile order might be most proper. But for a station in Iowa, which cannot be depended upon to serve adjacent towns and cities, to be subjected to the 300-mile order would constitute a hardship on the listeners of those places.

In other words, my contention is that it will be necessary for the Commission to make individual orders for particular stations and communities.

If a New York Station is able to well serve a surrounding area of 400-miles with chain programs, then no other stations should be permitted to broadcast the same program in that section.

If the Iowa station is able to serve only 100 miles, duplications should not be permitted within that area.

It means that before the Commission can attempt the regulation of chain programs it must have a great amount of data about stations. The performance of the station to be regulated must be definitely known. The Commission must know in advance that the regulation will not work a hardship on listeners.

It is my firm conviction that most people like chain programs, at least part of the time. Nobody likes all of the chain programs all of the time. Each listener should be able to get other features in addition to the chain programs.

But one community should not be deprived of chain programs simply because listeners in another community get the same program from two or three different stations.

# American PEOPLE GAINING in

### Musical APPRECIATION

A MERICAN people have shown a tremendous gain in musical taste during the past few years. So believes Mischa Elman, by many considered the greatest violin genius, who attributes the increased appreciation of music to radio broadcasting.

The great violinist has been heard over the radio but twice in this country. On February 10, he was the artist of the Atwater Kent program. He had just returned from sixteen months in Europe, where he played 160 concerts in fourteen European countries.

Elman was born at Tolna, Russia, a child of the Ghetto, son of Saul Elman, teacher of Hebrew, grandson of a locally famous violinist, and great grandson of a noted Talmudic scholar.

He began with the violin when he was five years old, immediately attracting the attention and assistance of Rusian nobility. He was placed in the Odessa Imperial Academy of

Music, and when ten years old was heard by the great teacher, Leopold Auer, who foretold Mischa's ensuing success.

Twenty-five years ago, Elman was admitted to Auer's classes where his progress was so phenomenal that he made his debut in Berlin in 1904. This was followed by a triumphal tour to Hamburg, Dresden, Leipsic, Vienna, Paris, London and other capitals, where he played before the crowned heads of

Europe, and in six months had conquered every musical center on the continent.

Oscar Hammerstein brought him to New York in 1910, where his American debut was made with the Russian Symphony.

Elman thinks America peculiarly adapted to nation-wide concerts over the radio, which would be impossible in Europe with its sectional tradition.

"Europe," he explains, "is divided in areas. Leopold Auer's teaching influences the violin playing of Russia; the traditions of Joachim dominate the violin recital halls of Central Europe; the Sarasate ideas are prevalent elsewhere; Paganini's theories linger in another section. As a pupil of Auer, my reading of the Tschaikowsky concerto would not be according to the ideas that prevail in the Joachim district. It makes touring difficult and radio broadcasting continentally impossible.

"But during these past ten years a tremen-

dous gain in musical taste and appreciation has swept over America, due largely to radio. This country has not been poisoned by tradition, while in Europe a new twist in technic, program building, or interpretation is likely to fall on unwilling ears."

Mischa Elman has played in concert in many cities of the United States. It is believed that he is preparing to make another concert tour during the next few years.



MISCHA ELMAN

# VIOLINS CROON SLEEPY TUNES

HIMES sound, a grandfather's clock ticks away the last hour of the day. Singing violins croon a sleepy tune and the hands of a dreamy man in gray, bent over a conductor's score, suggest a drowsy rhythm. The hour of Slumber Music, which closes the day of a number of stations, is being broadcast.

The man in gray is Ludwig Laurier, director of the string sextet which presents this quiet program of classical music that occupies the periods often given over to dance orchestras. Laurier's hair is gray, too, and until he lifts his head the whole man seems tinged with this neutral color.

His blue eyes, however, belie the impression of grayness. As the conductor's eyes leave his score and seek out the musicians, his rugged face, immobile a moment ago, becomes alive. The eyes laugh and a quiet smile softens the rugged lines of the face.

Laurier not only conducts Slumber Music; he is really the whole program. He selects the music and builds the program piece by piece until he has obtained just the progression of

moods he desires. Not all of the music played during the Slumber Hour could be described as sleepy. Usually the program opens on a bright and cheery, or perhaps a rugged note, and moves smoothly through a number of not incongruous moods to its inevitable quiet conclusion. Laurier is careful, however, to make sure that the selections are such that will not lose their meaning in rearrangement for strings.

The ensemble is made up to two first violins, second violin, viol, bas viol, piano and harmonium,

The conductor, himself a violinist, came to the United States nearly forty years ago from Speyer am Rhine, in the Palatinate. He was only thirteen years old then, and went directly to Buffalo, there to learn the drug business under his brother.

He had already begun to study the violin however and its lure proved greater than that of the pharmacy. When he became a little older he played in the Buffalo Symphony Orchestra, conducted by John Lund, and a few years later he left America to study his music in Berlin. There he studied the violin. Laurier was only twenty-one at that time, yet became one of the first violins in the Berlin Philharmonic. After two years with this organization he taught for a year in Switzerland and then returned to the United States.

On his return he joined the orchestra of the Metropolitan Opera House, New York, as first violin, and remained for sixteen years.

During the conductorship of Arturo Toscanini he was manager of the orchestra.

According to letters from listeners, the hour of Slumber Music is one of the most popular programs on the air. Thousands and thousands of listeners sit up to hear the program. Many listeners have sought a device to automatically cut off their set upon conclusion of the program.



FLORENCE WRIGHTMAN, Harpist

# RADIO PARSON Begins Career as MINE LABORER

HEN Dr. S. Parkes Cadman steps up to the radio pulpit every Sunday afternoon at 4 o'clock (New York Time), perhaps 200 people can see as well as hear him. But to get the number of his radio congregation one must multiply the visible audience by at least 10,000—and an estimate of 2,000,000 listeners is considered low. The 90-minute program goes on the air over 20 stations.

The life history of Dr. Cadman some day may be the basis for a biographical novel. He was born in Shropshire, England, in 1864. His father, a miner, young Cadman entered the mines at an early age and labored underground for years. He learned to read and devoted his spare time to reading everything available. Literature was at a premium, however, for the mining town had no public library.

Then came the call to the ministry and the young miner entered a theological college in London. While a student there an American bishop heard him preach and told him he'd find a church for him if he would come to America.

As soon as the youngster finished his studies he scraped together enough money to buy passage to the United States.

His first pulpit was in Millbrook, N. Y., a small farming town. Within a few weeks the young Englishman became known as "the preaching marvel," and extra chairs had to be put into the village church to accommodate the crowds.

His rise in the ministry from then on was rapid. In a few years he went to Yonkers and then on to the Metropolitan Temple in New York City.

Later he became pastor of the Central Congregational Church in Brooklyn, his present position. Two years ago he was selected president of the Federal Council of Churches of Christ in America.

He has been pastor to a radio congregation for three years.

Dr. Cadman receives thousands of letters each week from members of his congregation throughout the country asking his advice on almost every subject imaginable. He tries to answer as many of these letters as possible.



DR. S. PARKES CADMAN

# LEARN to COOK via RADIO

HE modern housekeeper cannot plead ignorance if her job isn't managed as it should be and if there's a radio receiving set in her home. Information, direction, hints, recipes and advice are everywhere at hand. If she turns to her radio, she can learn everything from how to handle a canopener to the proper method to prepare the latest concoction of Paris chefs.

From the time the male member of the domestic firm has gulped his coffee and dashed to the office until a short time before he comes home at night, there's something on the air that is of special interest to women.

Radio recipes are old stand-bys. Talks on how to raise children have been on the air for years. Now the program makers are discussing everything from the effect of teeth on the personality to instruction on painting the back porch.

A week of daytime programs on the air from stations gives an idea of the wide variety of broadcast material.

Radio Household Institute is on the air every day. Information on housekeeping is sugar-coated in this program, the fact being presented in brief dramatic sketches. The

National Home Hour, a semi-weekly feature, also mixes entertainment with instruction.

Mrs. Julian Heath discusses food every day under a program known as "Your Daily Menu." Dr. Royal S. Copeland is on the air four times a week with information on pure foods. The Forecast School of Cookery is broad-

cast three times a week. Talks on slenderizing—that's ritz for reducing—are broadcast weekly by Miss Majorie Dork, a specialist on reducing methods. Miss Jeanne Carpenter, another expert, talks once a week on investments for women.

Glancing through the program one may note talks on wallpaper, the effect of colored sheets on disposition, the proper care of teeth, how to cook in a kitchenette, taming wildflowers and a course in making gifts out of crepe paper.

A mattress company sponsors a talk on how to relax. Lace manufacturers, by means of a fifteen minute talk, tell how one can look out without letting the too-curious look in.

"Do You Know Your Onions?" is the title of a talk on fruits and vegetables. Betty Crocker has a talk on how to fill lunch baskets. Winter fashions are discussed by a writer from a fashion magazine. An expert on such things in fifteen minutes tells how to make a rock garden—but it takes longer than that to do it.

Advice on opening a candy shop or a tea room goes on the air. Then there's a talk on the relative merits of various schools and colleges.

Then there are vocational talks, inspira-

tional talks, educational talks—in fact, no matter what the chief interest or hobby of the woman listener, sometime during a week she'll be able to hear an interesting radio discussion.

Somebody should make a survey of husbands to find out whether they are being better fed as a result of all the radio instruction.



MRS. JULIAN HEATH

# Do You LISTEN to Distant Stations?

NLY about 19 per cent of the listeners are interested in distant stations, according to Frank A. Arnold, director of Development of the National Broadcasting Company. Arnold has just completed a survey covering personal interviews with 17,099 families, which was made under the direction of Dr. Daniel Starch, of Cambridge, Mass. The survey revealed the following:

The average set in use has five or six tubes. The radio fan listens to the radio on an average of 850 hours a year.

The most popular radio hours are between 8 and 10 p. m., and the noon hour and dinner hours have about an equal number of listeners.

Three quarters of the persons interviewed and who owned radio sets said they listened about equally all evenings of the week, while an additional twenty-four per cent reported listening more on Saturdays and Sundays.

Crystal sets are more or less relegated to the past; the survey disclosing less than four per cent of the families interviewed owning crystal sets.

Radio sets are in use in the summer time nearly as much as any other season of the year.

"At one time the crystal set predominated in all sections of the country as being the most economical and generally efficient way of obtaining the radio message," says Mr. Arnold. "Today, the preference for the modern receiving set and loud speaker is such, and the range of price so elastic, that these modern sets have largely taken the place of the oldtime crystal sets, as less than four per cent of the families interviewed report their use.

"The use of the radio in the summertime has always been a matter of dispute, with no proof offered in evidence. This survey by Dr.



JOHN W. ELWOOD N. B. C. Program Manager

Starch has revealed conclusively, the fact that the radio receiving set is in use nearly as much in the summer as in any other season of the year. Of the families interviewed, seventy-eight per cent stated they used the radio whenever the summer sojourn made this possible, or obtaining access to radio programs through use of a portable set or the radio in the hotel where they were spending their vacation.

Another question of dispute, was the extent to which the "DX" or distance seeking radio fans, were continuing to be a factor in the situation. It will be remembered at one time the desire for obtaining distance was so strong as to create in many cities what was known as the "silent night." This survey shows that seventy-three per cent owning radio receiving sets tune in regularly to one or two favorite stations, while only ninteen per cent are interested in seeking distant stations."

It is not believed that the survey gives a true picture of distance listening. While it is probable that 73 per cent of the listeners tune in on a favorite station most of the time, it is believed to be true also that a large number of the 73 per cent seek distant stations occasionally.

# Gossip of the Studios

An appeal has been made by the Lord's Day Alliance to the Federal Radio Commission to bar from the air anything but religious music and sermons on Sunday.

In reply to the request, Louis Caldwell, general counsel for the Radio Commission, said that the Commission has no power to censor the quality of broadcasting in any such manner.

Way up in the Rocky Mountains, 8,500 feet to be exact, radio brings civilization to a lonely man. In a letter, F. W. Dohley, a "trapper and fur farmer," lauds the comforts of picking up light opera in an environment where snow drifts to a man's height, winds shriek, and coyotes howl.

"If you could listen in under the same circumstances as I do," Dohley writes, "you might realize what is being done for so many people, brightening their lives, and making life worth living. Sitting by a huge fire full of logs, with seven fine police dogs, all peacefully lying around, I am listening to a wonderful program."

But it isn't all snow and wind in the Rockies. There is this afterthought from Mr. Dohley: "If ever it should be your good fortune to visit Colorado and the Rockies in summer, look me up. Summer is all sunshine, tourists, trout fishing and other pleasures."

It was a case of waiting at the church. Only the bride and groom waited together for the orchestra that was to play the wedding march. All of the small New Jersey town were waiting to cheer the newlyweds, who couldn't be wed because the musicians failed to arrive.

It was at this point that somebody telephoned to a New York station and asked that a wedding march be broadcast. It was impossible for the station to comply with the request. Fortunately the musicians put in a belated appearance and the wedding proceeded.

Many so-called freak instruments such as musical saws, glasses and jugs have been revealed as real musical instruments when broadcast, according to musical experts.

The novel appearance of a man getting music from a saw or blowing a melody from a jug long has had a definite attraction for theatre-goers. When such artists applied for radio jobs, the program makers were dubious. Auditions revealed, however, that the music from a musical saw is beautiful when picked up by a microphone and that the deep note of the jug, when blown, can be transmitted perfectly.

Musical glasses also can be broadcast successfully, it has been demonstrated.

The man who can play "Dixie" on a bicycle pump hasn't had his chance on the air as yet.

When Henry M. Hyde gives his talks on astronomy at San Francisco, he is heard in Honolulu, 2,400 miles away, by his daughter. According to letters he has received from his daughter, she has little difficulty in picking up his broadcast talk.

The radio entertainer or announcer is denied one source of criticism enjoyed by others amusing the public. The radio performer can't hear his or her own voice as it comes through the speaker from the air.

In movieland, star, featured player, or just extra, may always see themselves as others see them. Phonographic artists may enjoy their own voices as long as they wish for the expenditure of a small sum. Likewise is the talkie player a privileged listener to his own vocal talents and may view himself at countless picture houses. Even the "legit" performer is able to judge the effect of his efforts by direct contact with his audience.

## When You Say it —Smile

IT isn't so much what the announcer says into the mike as what he doesn't say." In 1924, George Dewey Hay of WSM, known to radio listeners as "The Solemn Old Judge," was voted the most popular announcer in the world. Perhaps observance of the above bit of philosophy helped. Perhaps adherence to his slogan, "Never Fail To Broadcast A Smile" had something to do with it.

Mr. Hay was born in Attica, Indiana, and spent ten years of his life in the Hoosier town. Before his debut as a radio announcer he was a newspaper reporter and feature writer on the Memphis Commercial Appeal. He brought every bit of this experience to his radio work and regards radio as practically a new kind of newspaper, with a circulation running into the millions. "The announcer must have a nose for news," he says. "Radio is the world's newspaper and the announcers are its reporters."

"The Solemn Old Judge" took his first radio steps as chief announcer for WMC, the Commercial Appeal station, at Memphis, Tenn. Everybody in the southland listened in on George Hay when he started down the Mississippi River from WMC with his "Hushpuckiny," a river boat whistle. Within a year both the announcer and the Memphis station were known wherever people talked or listened "via radio." The "Hushpuckiny" was Hay's original idea and it floated over the southland like an invisible boat steaming down the inland streams.

Then Hay deserted the South for Chicago about two years ago to become chief announcer for WLS there; he left the "Hushpuckiny" in Memphis and started across country with the locomotive as his radio vehicle. Radio listeners soon learned that when they tuned in on the long, hoarse whistle of the locomotive they would hear the familiar, cheery voice of "The



THE SOLEMN OLD JUDGE

Solemn Old Judge" in another second; "WLS-Chicaw-go, the WLS Unlimited is starting on its daily transcontinental trip over the trackless paths of the air."

While in Chicago, Hay was the chief cog in the human appeal sent out over radio following a tornado which cut a swath of death and destruction in Missouri, Illinois, Indiana, Kentucky, and Tennessee. "The Solemn Old Judge," with the quick judgment and action required through his newspaper training, immediately started to broadcast appeals for financial aid for the victims over WLS. A relief fund was started, and night and day "The Solemn Old Judge" was at the microphone with little sleep and drinking black coffee to keep him awake. His voice rang with pathos as he told of the afflictions the tornado had wrought in the homes of hundreds of families and at the close of the radio relief drive, WLS had raised more than a quarter of a million dollars.

But a few months ago, Hay's longing for the southland caused him to return to Tennessee and he accepted the position of director and chief announcer of WSM. Hay is known everywhere as "The Solemn Old Judge," because of the quaint dialect stories.

# 18 \* Ry Our Readers

#### Splendid!

This is the first Bulletin I have had the pleasure of reading. One of the most particular features that appeals to-me is the sketches of the different announcers; after hearing their voices so much it is interesting to see their photos and read about them.

Putnam, Conn.

MRS. GEO. F. LOCKWOOD.

#### Anyway, the Log is Good

I do not care for the news articles you include in your last issue and in fact, I promptly cut them out without reading them. I also dislike the size, I very much prefer the old size.

Schenectady, N. Y.

D. B. BULLER.

#### We're Sorry

Your Bulletin in the old form was fine, so fine that not being able to get a copy of this season's edition here, I wrote to you for one. The New Bulletin is sadly disappointing. You have put a lot of matter not properly belonging to a list and left out the table of distances. You appear to think that all sets in use at this time are of one dial, so have left no space for insertion of dial readings. I have removed the unsightly cover, cut out all extraneous matter and now have a most unsatisfactory bulletin, though better than as issued. Personally I do not want a radio magazine when in need of a list of stations, and the next copy of a station list that I buy will not be a Stevenson's. T. F. NEWBOY. Bethlehem, Pa.

#### Disappointed

Am writing to tell you how disappointed I am in the New Radio Bulletin. Your old one was fine as it was very easy to use but this is such fine print it tries your eyes. I don't suppose this is nice of me to write this but I did enjoy the Old Log; it was a handy size and the print was good size to read.

Enosburg Falls, Vt.

Mrs. V. T. Burt.

#### Thanks

I like Stevenson's very much and find it the best on the market.

High Point, N. C.

ROBT. M. ENGLISH.

#### Bulletin Improved!

I received the November issue of Stevenson's Bulletin in yesterday's mail and think the new arrangement of stations a great improvement over the old way of listing them and like the book arranged this way much better. I should also like to have you send me the latest bulletin.

New Bedford, Mass.

EVERETT E. FORD.

Now a wonderful magazine. Danville, Va.

DR. B. P. Jones.

#### Doesn't Want News

I appreciate the station date as you have it in three forms so I can use "cross reference" to locate a station. News items are best printed elsewhere. Denver, Colo. H. H. BUCKWALTER.

#### Fine!

I have logged 400 stations in two years, and this could only be done with the help of Stevenson's Radio Bulletin.

New York City, N. Y.

CHAS. L. MORGAN.

#### A Cash Customer

I am afraid your wave length will be cut out by not publishing a lot of advertisements for us to worry over. But keep up the good work, I would buy the bulletin if for no other reason.

Tampa, Fla.

W. R. ALEXANDER.

#### Help, Police

I only like to see, that the police finds at once and stops all the maddening noises of neighbors with Regenerative Sets, Warming Pads, Vacuum Cleaners, Battery Charges, etc., and hangs all people who sing like intoxicated Porkupines. Also fill steamers with jazz players and sink them 12 miles deep in the Pacific Ocean, these (censored). Seattle, Wash. C. A. G.

#### Likes Stevenson's

I especially like the compact arrangement of information in Stevenson's Radio Bulletin and have used it regularly and to advantage for two years.

Dallas, Texas,

W. L. CARGILL.

### American Cities Having Broadcasting Stations

A N alphabetical list of all places in the United States having broadcasting stations; it can be used to find the station when the call letters are missed but the name of the city is heard; following it are lists of Canadian, and Cuban cities having stations.

Aberdeen, Wash	_KXRO
Abilene, Texas	KFYO
Akron, OhioWADC	, WEJU
Albuquerque, N. Mex.	IVSAN
Allentown, Pawcba	WFBG
Alva Okla	KGFF
Amarillo, TexasKGRS,	WDAG
Ames, Iowa	W01
Anchorage, Alaska	WHRI
Anderson, Ind.	NAA
Arlington, va	-WCAP
Asheville, N. C	WWNC
Astoria, Oreg.	KFJ1
Atlanta, Ga. WGST, WSB	WIHS
Atlantic City, N. J	WAPI
Auburn, Ala.	WMBO
Austin. Texas	KUT
Baltimore, MdWBAL,	WCAO,
WFBR, WCBM.	WTD7
Bangor, Maine WABI	WORD
Batavia, III	WKBP
Bay City Mich.	_WBCM
Bayshore, N. Y	_WINR
Beaumont, Texas	_KFDM
Bellingame, Wash.	_KVUS
Bellefontaine, Unio	WEAR
Poloit Wig	WEBW
Berkeley, Calif.	KRE
Berrien Springs, Mich	_WEMC
Beverly Hills, Calif	KEJK
Billings. Mont.	WNRE
Binghaniton, N. 1. WBRC	WKBC
Biemark N Dak	_KFYR
Blytheville, Ark.	_KLCN
Boise, Idaho	_KFAU
Boone, Iowa	LKFGQ
Boston, MassWBET,	WMES,
WBZA, WEEL,	11 321307
Boundbrook, N. J	$_{}WJZ$
Brookings, S. Dak KFDY	, KGCR
Brooklyn, N. Y WSGH	WSDA
WBBC, WLTH, WMI	WKBV
Browneville Texas	KWWG
Brownwood, Texas	KGKB
Buffalo, N. YWEBI	
WKRW WKEN WS	R. WGR,
77 17 17 17 17 17 17 17 17 17 17 17 17 1	R. WGR, VS.
Burbank, Calif.	R. WGR, VS. _KELW WCAX
Burbank, Calif.	R. WGR, VS. _KELW _WCAX _KGIR
Burbank, CalifBurlington, VtButte, MontCalumet, Mich	R. WGR, VS. _KELW _WCAX _KGIR _WHDF
Burbank, CalifBurlington, VtButte, MontCalumet. MichCambridge. Obio	R. WGR, VS. _KELW _WCAX _KGIR _WHDF _WEBE
Burbank, Calif. Burlington, Vt. Butte, Mont. Calumet, Mich. Cambridge, Ohio. Camden, N. J.	R. WGR, VS. _KELW _WCAX _KGIR _WHDF _WEBE _WCAM
Burbank, Calif. Burlington, Vt. Butte, Mont. Calumet, Mich. Cambridge, Ohio. Canton, N. Y. Canton, N. Y.	R. WGR, VS. _KELW _WCAX _KGIR _WHDF _WEBE _WCAM _WCAD WHBC
Burbank, Calif. Burlington, Vt. Butte, Mont. Calumet, Mich. Cambridge. Ohio Camden, N. J. Canton, N. Y. Canton, Ohio Cape Girardeau, Mo.	R. WGR, VS. _KELW _WCAX KGIR _WHDF _WEBE _WCAM _WCAD _WHBC _KFVS
Burbank, Calif. Burlington, Vt. Butte, Mont. Calumet, Mich. Cambridge. Ohio Canden. N. J. Canton, N. Y. Canton, Ohio Cape Girardeau, Mo. Carbondale. Pa.	R. WGR, VSKELW -WCAX -KGIR -WHDF -WEBE -WCAM -WCAD -WHBC -KFVS
Burbank, Calif. Burlington, Vt. Butte, Mont. Calumet, Mich. Cambridge. Ohio. Camden. N. J. Canton, N. Y. Canton, Ohio. Cape Girardeau, Mo. Carbondale. Pa.	R. WGR, VS.  _KELW _WCAX _KGIR _WHDF _WEBE _WCAM _WCAD _WHBC _WHBC _KFVS _WNBW _WHAP
Burbank, Calif. Burlington, Vt. Butte, Mont. Calumet, Mich. Cambridge, Ohio. Camden, N. J. Canton, N. Y. Canton, Ohio. Cape Girardeau, Mo. Carbondale, Pa. Carlstadt, N. J. Carthage, Ill.	R. WGR, VSKELW -WCAX -KGIR -WHDF -WEBE -WCAM -WCAD -WHBC -KFVS -WNBW -WCAD
Burbank, Calif. Burlington, Vt. Butte, Mont. Calumet, Mich. Cambridge. Ohio. Camden, N. J. Canton, Ohio. Cape Girardeau, Mo Carbondale. Pa. Carlstadt, N. J. Carthage, Ill. Casenovia, N. Y.	R. WGR, VS. KELW -KELW -WCAX -KGIR -WHDF -WEBE -WCAM -WCAD -WHBC -KFVS -WNBW -WHAP -WCAZ -WMAC -WGAZ
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Aberdeeu, Wash	& WGR, VS.  KELW  -KCAX  -KGIR  WHDF  WCAM  -WCAD  -WHBC  -WHAP  -WCAZ  -WHAP  -WCAZ  -WMAC  -KGGH  -KGES  -WBEY  -WBEY  -WDOD  -WLOE
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Culver, Ind.	WCMA
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Harlington Toyas KRGV
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Jerome, Idaho KFXD Jersey City, N. J. WKBO, WAAT Johnstown, Pa. WHBP Joliet. Ill. WCLS, WKBB Joplin, Mo. WMBH Juneau, Alaska KFIU Kalispell, Mont. KGEZ Kansas City, Mo. KWKC, WDAF, WLBF, WHB, WQQ. Kearney, N. J. WLWL Kellogg, Idaho KFEY Kemore, N. Y. WKEN Kenosha, Wis. WCLO Ketchikan, Alaska. KGBU Kingston, Pa. WABF Kirkswille, Mo. KFKZ Kirkwood, Mo. KMOX Knoxville. Tenn. WFBC, WNBJ, WNOX Kokomo, Ind. WJAK Lacey. Wash. KGY Laconia. N. H. WKAV La Crosse, Wis. WKBY Lafayette, Ind. WBA Lakeland, Fla. WMBL Lancaster. Pa. WGAL, WKJC Lansing, Mich. WKAR La Porte, Ind. WRAF Lapeer, Mich. WRAF Lapeer, Mich. WRAF Lapeer, Mich. WRAF Laramie, Wyo. KFBU La Wille. WILL Salle. Ill. WJBC Lawrence Kans. KFBU, WREN Lawrence Kans. KFBU, WREN Lawrenceburg, Tenn. WOAN Lewisburg, Pa. WJBU Lexington, Mass. WLEX
Jerome, Idaho
Jerome, Idaho
Grand Rapids, Mich. WASH Greefey, Colo. KFKA Greensboro, N. C. WNRC Greenville, Miss. WRBQ Greenville, Miss. WRBQ Greenville, Texas KFPM Grove City, Pa. WSAJ Gulfport, Miss. WGCM Gunnison, Colo. KFHA Hallock, Minn. KGFK Hammond, Ind. WWAE Hamilton, Ohio. WRK Harlington, Texas KRGV Harrisburg, Ill. WEBQ Harrisburg, Pa. WBAK, WPRC Harrisburg, Pa. WBAK, WPRC Harrisburg, Miss. WRBJ Havre, Mont. KFBB Hayward, Calif. KFQZ, KMTR. KFWB, KNX. Holly City, Calif. KGBB, KGU Hopkinsville, Ky. WFIW Hot Springs, Ark. KTHS Houston, Texas KRC, KTUE Humboldt, Nebr. KGID Hudholdt, Nebr. KGID Hudholdt, Nebr. KGID Hudholdt, Nebr. WSAJ Haholken, M. J. WFM, WKBF. Inglewood, Calif. KMIC Iowa City, Iowa WSAJ Haholken, WSWI Jackson, Mich. WSMJ Jamestown, N. WSMJ Jamestown, N. WSMJ Jamestown, N. WOL Jefferson City, Mo. WOS Jerome, Idaho KFTD Jamestown, N. WOS Je
Jerome, Idaho

Los Angeles, Calif. KFI, KEGF, KFSG, KGFJ, KHJ, KPLA, KTBI. Louisville, Ky. WHAS, WLAP Ludington, Mich. WKBZ Macon, Ga. WMAZ Madison, Wis. WHA, WIBA Manchester, N. H. WRBII Mandan, N. Dak. KGCU Manhattan, Kans. KSAC Manitowoc, Wis. WOMT Mansfield, Ohio WLBV Marshalltown, Iowa KFJB Marshfield, Oreg. KOOS Mason. Ohio WSAI McGehee, Ark. KGHG Medford, Oreg. KMED Memphis, Tenn. WGBC, WHBQ, WMBM, WMC, WNBR.  Miami, Fla. WMBF, WIOD, WQAM.  Middletown, Ohio WSRO Mifford, Kans. KFKB Milwaukee, Wis. WHAD, WTMJ, WISN.
KTBI Louisville, KyWHAS, WLAP Ludington, MichWKBZ
Madison, WisWHA, WIBA Manchester, N. HWRBH Mandan, N. DakKGCU
Manhattan, KansKSAC Manitowoc, WisWOMT Mansfield, OhioWLBV
Marshfield, OregKOOS Mason, OhioWSAI McGehee, ArkKGHG
Medford, OregKMED Memphis, TennWGBC, WHBQ, WMBM, WMC, WNBR. Miami Fla. WMBF, WIOD
WQAM. Middletown, OhioWSRO Milford, Kans. KFKB
Milwaukee, WisWHAD, WTMJ, WISN.  Minneapolis, MinnWDGY, WHDI, WLB, WGMS, WCCO. Missoula, MontKGHD, KUOM Montgomery, AlaWIBZ Mooseheart, IllWJJD Mt. Beacon, N. YWOKO Mt. Prospect, IllWJAZ Mt. Vernon Hills, VaWJSV Muncie, IndWLBC Muscatine, IowaKTNT Nashville, TennWBAW, WLAC, WSM. Newark, N. JWAAM, WGCP, WNJ, WOR. New Bedford, MassWNBH
Missoula, MontKGHD, KUOM Montgomery, AlaWIBZ Mooseheart, IllWJJD Mt. Beacon, N. YWOKO
Mt. Prospect, III
Nashville, TennWBAW, WLAC, WSM. Newark, N. JWAAM, WGCP,
WNJ, WOR.  New Bedford. MassWNBH  New Haven, ConnWDRC  New Orleans, LaWABZ, WDSU,  WJBO, WJBW, WSMB,  WWI
WNJ, WOR.  New Bedford. Mass
WMCA, WMSG, WNYC, WOV, WRNY. Norfolk, NebWJAG Norfolk, VaWBBW, WPOR, WTAR.
WTAR. Norman, OklaWNAD Northfield, MinnKFMX, WCAL
Oakland, CalifKFWM, KGO, KLS. KLX, KTAB. Ogden, UtahKFUR Oil City, PaWLBW
Oklahoma City, OklaKFJF KFXR, KGCB, KGFG, WKY. Oldham, S. DakKGDY Oweke, Noby
Ontario, Calif. KFWC Orlando, Fla. WDBO Ottumwa, Iowa WIAS
Pasadena, CantKPPC, KPSN Paterson, N. JWODA Pawtucket, R. IWPAW Pensacola, FlaWCOA
Peoria, III
WIP. WLIT. WNAT, WOO, WPSW. WRAX. Phoenix, ArizKFAD, KFCB
Pierre, S. Dak
Plainfield, N. J
Portland, OregKEX, KFEC, KFIF, KFJR, KGW, KOIN, KTBR, KWBS, KWJJ, KXL
WRNY.  Norfolk, Neb
Pueblo, ColoKGDP, KGHA, KGHF. Pullman, WashKWSC

Quincy,	Ill	_WTAD
Racine,	Wis	_WRJN
Raieign,	N. C	WPTF
Raton,	III.  Wis.  N. C.  Iity, S. Dak.  N. Mex.  N. J.  N. WBBL,  VA, WTAZ.  III.  III.	_KGFL
Ravenna	, Nebr	KGFW
Reading	, Pa	WRAW
Red Ba	IK, N. J.	MIRI
Reno. N	evada	KOH
Richmon	id, Tex	KGHX
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WR	VA, WTAZ.	WARC
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Roanoke	, VaWDBJ,	WRBX
Rocheste	er, N. YWABO,	WHAM,
Rockford	EC, WNBQ.	KELV
Rock Isl	and. Ill.	WHEE
Rossville	e, N. Y	WBBR
Royal O	ak, Mich	WAGM
Sacrame	nto, Calif	KFBK
Salt Lak	e City. Utah	KDYL
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San Die	go, CalifKGB,	KFSD
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San Jose	, Calif	_KQW
San Jua	n, P. R	WKAQ
Santa A	na, Calif erbara Calif	KECE
Santa M	aria. Calif	KSMR
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Saranac	Lake, N. Y.	WNBZ
Schonect	ody N V	WSIS
Scranton	PaWOAN	WGBI
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KJE	R, KKP, KOMO,	KPCB,
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Surevepo	EA KWKH	ASBA,
Sioux Ci	ty, IowaKFMR.	KSCJ
Sioux Fa	ills, S. Dak	_KSOO
South B	end, Ind	WSBT
KFI	PY. KGA.	Krio,
Springfie	ld, Îll	WCBS
Springfie	ld. Mass	WBZ
Springhe	ld. Unio	WCSO
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St. Josep	h. MoKFEQ.	KGBX
St. Louis	KFQA,	KFUO,
WE	W WIL WMAY	KWK,
St. Paul.	Minn.	KSTP
State Co	lege, N. Mex	KOB
State Co.	ilege, Pa	WPSC
Stevens :	Point, Wis.	WLBL
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Steubenv Stevens : Stockton Storrs, Streator, Sulphur	Point, Wis , CalifKGDM, Conn Ill Springs Ark	WLBL KWG WCAC WTAX
Stevens Stockton Storrs, Streator, Sulphur Superior,	Point, Wis , CalifKGDM, Conn Ill Springs, Ark Wis	WIBK WLBL KWG WCAC WTAX KFPW WEBC
Stevens Stockton Stockton Storrs, Streator, Sulphur Superior, Syracuse	Point, Wis , CalifKGDM, Conn Ill. Springs, Ark Wis N. YWFBL,	WIBR WLBL KWG WCAC WTAX KFPW WEBC WSYR
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Stevens : Stockton Stors, Streator, Sulphur Superior. Syracuse Taema : Terre Ha Trifton : Tilton : Toccoa, Toledo. Topeka, Trenton, Trinidad Troy, N. Tucson, Tulsa, O.	Point, Wis. Calif. KGDM, Conn. Ill. Springs, Ark. Wis. N. Y. WFBL, Wash. KMC Call. WDAE, Ja. V. H. Ga Ohio Kans. N. J. Colo. Y. Ariz. kla.	WIBK WUBL KWG WCAC WTAX KFPW WEBC WSYR D KVI WMBR WBOW WBOW WBOW WBOW WBOW WBOW WBOW WB
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Utica, Miss,WOBC
Utica, Miss         WQBC           Utica, N. Y         WIBX           Valparaiso, Ind         WRBC           Vermilion, S. Dak.         KUSD           Vida, Mont         KGCX           Waco.         Texas         WJAD           Washington, D. C         WMAL, WRC,           WOL.         WOL.
Varparaiso, IndWRBC Vermilion, S. Dak KUSD
Vida, MontKGCX
Waco, TexasWJAD Washington D C WMAL WRC
WOL.
Washington, PaWNBO
Waterloo, Iowa WIAM
Wayne. NebrKGCH
Webster, MassWKBE
Wellesley Hill, MassWBSO
Wescott, MinnKSTP
West de Pere, WisWHBY Westminster, Calif KPWF
Wheeling. W. VaWWVA
White Haven, TennWREC
Wichita Falls, TexKGKO
Wilkes-Barre. PaWBAX, WBRE
Wilmington, Del. WDEL, WILM
Wilmington, N. CWRBT
Woodhaven N V WEVD
Worcester, MassWTAG
Yankton, S. DakWNAX
Youngstown, OhioWKBN.
WMBW.
Yuma, Colo WJBK
Zion, IllWCBD
Washington, D. C. WMAL, WRC, WOL.  Washington, Pa. WNBO Washington, Wisc. WTAQ Waterloo, Iowa WJAM Wayne. Nebr. KGCH Webster, Mass. WKBE Weirton. W. Va. WQBZ Wellesley Hill, Mass. WBSO Wescott. Minn. KSTP West de Pere, Wis. WHBY Westminster. Calif. KPWF Wheeling. W. Va. WWVA White Haven. Tenn. WREC Wichita, Kans. KFH Wichita Falls. Tex. KGKO Wilkes-Barre. Pa. WBAX, WBRE Willow Grove, Pa. WBAX, WBRE Willow Grove, Pa. WALK Wilmington, Del. WDEL, WILM Wilmington, N. C. WRBT Woodside, N. Y. WWRL Woodhaven, N. Y. WEVD Worcester, Mass. WTAG Yankton, S. Dak. WNAX York, Nebr. KGBZ Youngstown, Ohio WKBN, WMBW. Ypsilanti, Mich. WJBK Zion, Ill. WCBD  Canadian Cities
Bowmanville Ont CKAIL
Brantford, OntCFYC
Burnaby, B. CCFYC
CFCN-CNRC, CJCJ-CHCA
Charlottetown, P. E. ICFCY
Cobalt Ont CKMC
Edmonton, Alta CHCY-CNRE,
CHMA, CJCA, CKUA.
Halifax, N. SCHNS
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Kamloops, B. C.——————————————————————————————————
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Kamloops, B. C CFGH Kamloops, B. C CFJC King. York Co., Ont CFRB Kingston, Ont CFMC, CFRC London, Ont CJGO Midland, Ont CKPR Mission City. B. C CJCU Moncton, N. B CNRA Montreal, P. Q CFCF-CNRM. CHYC, CKAC-CNRM. Moose Jaw, Sask CJRM Ottawa, Ont CKCO, CNRO
Kamloops, B. C. CFCH King, York Co., Ont. CFRC King, York Co., Ont. CFRC London, Ont. CFRC London, Ont. CKPR Mission City, B. C. CJCU Moncton, N. B. CJCU Moncton, N. B. CJCH CHYC, CKAC-CNRM. Moose Jaw, Sask. CJRM Ottawa, Ont. CKCO, CNRO Prescott, Ont. CFLC Preston CKPC
Kamloops, B. C. CFCH King. York Co., Ont. CFRC King. York Co., Ont. CFRC London. Ont. CFRC London. Ont. CKPR Mission City. B. C. CJCU Moncton. N. B. CNRA Montreal. P. Q. CFCF-CNRM. CHYC. CKAC-CNRM. Moose Jaw, Sask. CJRM Ottawa. Ont. CKCO, CNRO Prescott. Ont. CFLC Quebec, P. Q. CHRC, CKCI.
Kamloops, B. C. CFCH King. York Co., Ont. CFRC King. York Co., Ont. CFRC King. York Co., Ont. CFRC Condon, Ont. CFRC London, Ont. CFRC Mission City, B. C. CJCU Moncton, N. B. CNRA Montreal, P. Q. CFCF-CNRM. Moose Jaw, Sask. CJRM Ottawa, Ont. CKCO, CNRO Prescott, Ont. CFLC Preston Quebec, P. Q. CHRC, CKCI. CKCV-CNRQ. Red Deer, Alfa. CKLC
Kamloops, B. C. CFCH King. York Co., Ont. CFRC CFRC London, Ont. CFRC Mission City. B. C. CJCU Moncton, N. B. CNRA Montreal. P. Q. CFCF-CNRM. Moose Jaw, Sask. CJRM Ottawa, Ont. CKCO, CNRO Prescott, Ont. CKCO, CNRO Prescott, Ont. CFLC Regina, Sask. CKLC-CKCI. CKCV-CNRQ. Red Deer, Alta. CKLC Regina, Sask. CKLC-CHCT
Kamloops, B. C. CFCH King. York Co., Ont. CFRC Condon. Ont. CFRC London. Ont. CKPR Mission City. B. C. CJCU Moncton. N. B. CNRA Montreal. P. Q. CFCF-CNRM. CHYC. CKAC-CNRM. Moose Jaw, Sask. CJRM Ottawa. Ont. CKCO, CNRO Prescott, Ont. CKCO, CNRO Prescott, Ont. CFLC Preston CKPC Quebec, P. Q. CHRC, CKCI. CKCV-CNRQ. Red Deer. Alta. CKLC Regina, Sask. CKLC-CHCT. CJCR. CHWO, CKCK-CNRR. CJGR. CHWO, CKCK-CNRR. CJGR. CHWO, CKCK-CNRR.
Canadian Cities  Bowmanville, Ont
Kamloops, B. C. CFCH King. York Co., Ont. CFRB Kingston, Ont. CFRC, CFRC London, Ont. CFRC, CFRC London, Ont. CFRC, CFRC London, Ont. CKPR Mission City. B. C. CJCU Moncton. N. B. CNRA Montreal. P. Q. CFCF-CNRM. CHYC. CKAC-CNRM. Moose Jaw, Sask. CJRM Ottawa. Ont. CKCO, CNRO Prescott, Ont. CKCO, CNRO Orescott, Ont. CFLC Presion CKPC Quebec, P. Q. CHRC, CKCI. CKCV-CNRQ. Red Deer. Alta. CKLC Regina, Sask. CKLC-CHCT- CJCR. CHWO, CKCK-CNRR- CJBR. St. George CKCR St. Hyacinthe, P. Q. CECC CNRS
St. Hyacinthe, P. Q. CKSH Saskatoon, Sask. CFQC-CNRS, CHUC, CJWC.
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St. Hyacinthe, P. Q. CKSH Saskatoon, Sask. CFQC-CNRS, CHUC. CJWC. Scarboro Ont. CJYC-CKCX, CKOW. Sea Island. B. C. CJOR Summerside, P. E. I. CHGS Toronto. Ont. CFCA-CKSM, CNRT. CHIC-CHNC, CKNC, CUCLUM CONTROL CONTROL
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St. Hyacinthe, P. Q. CKSH Saskatoon, Sask. CFQC-CNRS, CHUC. CJWC. Scarboro Ont. CJYC-CKCX, CKOW. Sea Island. B. C. CJOR Summerside, P. E. I. CHGS Toronto. Ont. CFCA-CKSM, CNRT. CHIC-CHNC, CKNC, CKCL-CJSC, CKNC. Unity, Sask. CHSC Vancouver. B. C. CFCQ, CKCD- CHPC, CKFC, CKWX, CNRV. Victoria, B. C. CFCT Winnipeg, Man. CKY Yorktown, Sask. CJGX  Cuban Cities
St. Hyacinthe, P. Q. CKSH Saskatoon, Sask. CFQC-CNRS, CHUC. CJWC. Scarboro Ont. CJYC-CKCX, CKOW. Sea Island. B. C. CJOR Summerside, P. E. I. CHGS Toronto. Ont. CFCA-CKSM, CNRT. CHIC-CHNC, CKNC, CKCL-CJSC, CKNC. Unity, Sask. CHSC Vancouver. B. C. CFCQ, CKCD- CHPC, CKFC, CKWX, CNRV. Victoria, B. C. CFCT Winnipeg, Man. CKY Yorktown, Sask. CJGX  Cuban Cities
St. Hyacinthe, P. Q. CKSH Saskatoon, Sask. CFQC-CNRS, CHUC. CJWC. Scarboro Ont. CJYC-CKCX, CKOW. Sea Island. B. C. CIOR Summerside, P. E. I. CHGS Toronto. Ont. CFCA-CKSM, CNRT. CHIC-CHNC, CKNC, CKCL-CJSC, CKNC. Unity, Sask. CHSC Vancouver. B. C. CFCQ, CKCD- CHPC, CKFC, CKWX, CNRV. Victoria, B. C. CFCT Winnipeg, Man. CKY Yorktown, Sask. CJGX

## Alphabetical List of American Stations

A N arrangement of stations, alphabetically, according to call letters, with the frequency of the station; the owner, location and power can be ascertained by referring to the BROADCASTING LOG, where the station can be found under the wave length or frequency herein designated:

Signal   Queency   Signal   Queency   Signal   Queency   Signal   Queency   Signal   Queency   Signal   Signal   Queency   Signal   Signal   Queency   Signal   Signal   Signal   Queency   Signal   Signal   Signal   Queency   Signal   Signal   Signal   Queency   Signal	a 11	**	0.11	Per	Call	Elmo.	Call	Fre-	Call	Fre-	Call	Fre-
KDLR         3985         KFPUO         550         KGHF         1320         KPPC         1200         WAAF         920         WCBM         1370         KGBL         L1210         KPUR         1370         KGH         1500         KPRC         920         WAAT         1270         WCCO         8120           KEJK         1250         KFVD         170         KGHL         950         KGN         950         WAW         660         WCDA         1350           KEZW         1818         KFWB         950         KGIG         1320         KQV         1380         WABC         860         WCFL         170           KFAB         620         KFWC         1200         KGIR         1360         KRW         100         WABI         1200         WCGU         1400           KFAB         620         KFWF         1200         KGIR         1360         KRW         1301         WABI         1200         WCGU         1200           KFAB         1360         KFWW         930         KGIW         1300         KRLD         1310         WABT         1310         WABT         1310         WABT         1310         WABT         1310         WABT	Call Signal	Fre-	Call Signal	Fre-	Call	Fre-					Signal	
KEDLR         1210         KFUP         1310         KGHG         1310         KPQ         1210         WAAM         1250         WCCS         810           KEJK         1250         KFVD         700         KGHL         950         KPSK         950         WAAW         660         WCC         810           KELW         780         KFVS         1210         KGK         1500         KPSK         950         WAAW         660         WCL         1970           KEX         1180         KFWB         950         KGM         100         WABI         1400         WABE         1400         WCGL         1400           KFAB         770         KFWE         1200         KGIR         1360         KRE         1370         WABO         140         WCGL         1200           KFAB         1310         KFWE         1300         KGIR         1360         KRW         1300         KGIR         1310         KRAC         1300         WAB         1200         WCCA         1100         WAB         1200         WCCA         1100         WCCA         1100         WAB         1200         WCCA         1100         WCCA         1100         WAB		-		-	KGHF			-	WAAF	920	WCBM	
KEDYL         1290         KFUR         1370         KGHI         1500         KPRC         920         WAAT         1070         WCCO         8130           KELW         180         KFVS         1210         KGHL         950         KGN         950         WABC         860         WCDA         1350           KEX         1180         KFWB         950         KGIO         1320         KQV         1301         WABE         860         WCGU         1400           KFAB         620         KFWF         1200         KGIG         1320         KQW         1010         WABI         1200         WCLD         1200           KFAB         620         KFWF         1200         KGIR         1360         KRE         1370         WABC         1400         WCLD         1200         WCLD         1300         WABT         1310         WABT         1300         WABT         1300         WABT         1300         WABT         1300         WABT         13							KPQ	1210	WAAM	1250		
KELW         780         KFYD         700         KGHX         1500         KPSN         950         WAAW         660         WCFL         1350           KELW         780         KFYS         210         KGHX         1300         KPWF         1400         WABE         860         WCFL         1300           KFAB         770         KFWC         1200         KGIQ         1320         KQW         1380         WABE         140         WCLB         1300           KFAD         1250         KFWI         1200         KGIR         1360         KRE         1370         WABD         1410         WCLB         1310         WCLD         1200         <							KPRC	920	WAAT	1070		810
KELW         780         KFVS         1210         KGHX         1500         KPWF         1490         WABC         80         WCFU         1970           KEX         1180         KFWB         950         KGIO         1320         KQW         1010         WABI         1200         WCGU         1500           KFAD         620         KFWI         1930         KGIR         1360         KRE         1370         WABD         1440         WCLD         1200           KFBA         1360         KFWM         930         KGJW         1420         KRE         1370         WABD         1440         WCLD         1200           KFBB         1310         KFRD         1420         KGKB         1500         KRMD         1310         WABD         1310         WCMA         1310         WCMA         1430         WCMA         1310         WCMA         1420         WCMA         1430         WALL         1310         WCMA         1420         WCMA         1420         WCMA         1430         WALL         1430         WCMA         1430         WCMA         1430         WCMA         1430         WCMA         1440         WCMA         1430         WCMA <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>KPSN</td><td>950</td><td></td><td></td><td></td><td>1350</td></th<>							KPSN	950				1350
RPAD         1770         KPWC         1200         KGIQ         1320         KGW         1010         WABI         1200         WCLD         1500           KFAD         620         KFWH         1200         KGIR         1360         KRE         1370         WABN         1410         WCLD         1200           KFBB         1310         KFBM         1310         KKFM         1310         WCLD         1200         WCMA         1410         WCAL         1310         WCMA         1420         WCMA         1420         KRB         1310         WADD         1320         WCMA         1420         WCRW         1210         WCRW			KFVS		KGHX	1500						
KPAD         690         KFWF         1200         KGIR         1350         KKE         1370         WABO         1440         WCLO         1200           KFAU         1250         KFWI         930         KGIW         1420         KREV         1250         WABY         1310         WCLS         3140         WCLS         3140         WCLS         3140         WCLS         3140         WCLS         3140         WCLS         3140         WCCA         1420         KGKL         1800         KRMD         1300         WABD         1350         WCCA         1120         WADD         1350         WCCA         1120         WADD         1350         WCCA         1120         WADD         1350         WCCA         1120         WCCA         1120         WCCA         1120         WCCA         1120         WCCA         1120         WCCA         1130         WCCA         1130         WCCA         1130         WCCA         1130         WCCA         1130         WCCA         1140         WCCA         1140<	KEX	1180	KFWB	950								
RPAU   1250   KFWI   530   KGIW   1420   KRGV   1260   WABY   1310   WCMA   1400   KFBB   1310   KFXM   310   KFXM   310	KFAB	770										
KFBB         1300         KFWM         300         KGJE         350         KRLD         1120         WABZ         1200         WCMA         1420         WCMA         1420         KGKB         1500         KRBL         1310         WAPC         1220         WCOA         1120         WCOA         1120         WAPD         1320         WCOA         1120         WCOA         1210         WCOA         120												
KFBL         1370         KFXF         1420         KGKB         1500         KRMD         1310         WADC         1320         WCOA         1820           KFBL         1370         KFXF         1310         KGKL         1370         KRSC         1120         WAFD         1500         WCOA         880           KFCR         1500         KFXX         1420         KGKC         570         KSAC         580         WAGM         1310         WCOA         880           KFDY         550         KFXY         1420         KGRC         1370         KSAC         580         WAGM         1310         WCCM         120           KFDY         550         KFYYR         550         KGR         1370         KSD         550         WAPI         1140         WCCM         380           KFEC         1370         KGA         1470         KGTT         1420         KSD         550         WAPI         1140         WCCM         380           KFEQ         260         KGB         1360         KGW         620         KSD         1580         WBAL         1400         WDAH         1310           KFPH         1300         KGBW         <												
KPBL         1370         KFXF         1310         KGKL         1370         KRSC         1120         WAFD         1500         WCOC         880           KFPU         1310         KFX         1310         KGKA         1570         KSAC         580         WAGM         1310         WCOM         1210           KFCR         1310         KFX         1320         KGKX         1420         KGO         790         KSBA         1450         WAIU         640         WCSH         940           KFDM         560         KFYO         1420         KGR         1370         KGA         1470         KCSL         1300         WAPI         1140         WCSA         1380           KFPL         550         KKFY         550         KGR         1370         KGA         1370         KGA         1370         KGA         1400         WBAH         1400         WCX         750           KFEL         940         KKGB         1360         KGW         620         KSO         1110         WBAH         1400         WBAH         1400         WBAH         1400         WBAH         1400         WBAH         1400         WBAH         1400         WBAH												
RFBU   100						1970						
RFCR   1310   RFX   1310   RFX   1310   RFX   1420   RFCR   1420   RFCR   1500   RFXY   1420   RGO   790   RSSC   1330   WALK   1500   WCSM   940   RFDM   560   RFYO   1420   RGRC   1370   RSD   550   WAPI   1140   WCSO   1380   RFDM   7550   RFYR   556   RFYR   556   RGRS   1410   RSE   900   WASH   1270   WCSO   1380   RFE   1370   RGC   1420   RGRC   1420   R						570						
RFDR   1500   RFYN   1420   RGC   790   RSCJ   1330   WALK   1500   WCSH   940   RFDM   560   RFYN   550   RGRS   1410   RSEJ   900   WASH   1270   WCSM   380   RFDY   550   RGA   1470   RGT   1420   RSL   1130   WBAK   1420   WDX   750   RFEQ   560   RGB   1360   RGY   1200   RSD   1380   WBAK   1420   WDAF   610   WDAF   610   WFET   1300   RGB   1370   RHJ   900   RSTP   1460   WBAK   1420   WDAF   610   WDAF   6												
RFDM   560												
KPDV   S50												1380
KFEC         1370         KGA         1470         KGTT         1420         KSL         1130         WBAA         1400         WDAF         620           KFEL         940         KGAR         1370         KGY         1200         KSMR         1200         WBAK         1430         WDAF         610           KFEQ         560         KGBU         990         KGY         1200         KSOO         1110         WBAO         1200         WDAF         610         WDAF         620         WDAF         610         WDAF         610         WDAF         610         WDAF         610 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>WASH</td><td>1270</td><td>WCX</td><td>750</td></th<>									WASH	1270	WCX	750
KFEL         940         KGAR         1200         WBAK         1430         WDAF         610           KFFQ         560         KGB         1360         KGW         620         KSO         1380         WBAL         1430         WDAF         610           KFFY         1210         KGBU         370         KHJ         900         KSO         1310         WBAO         1120         WDAH         1310         WBAH         1300         WBAH         1300         KGBY         930         KHQ         590         KTAB         550         WBAW         1490         WDAY         1280           KFH         1200         KGBZ         930         KKCK         1420         KRAP         1420         WBAX         1210         WDBJ         930           KFI         460         KGCA         1270         KJJR         970         KTBI         1300         WBBL         1470         WDGY         1320           KFII         1420         KGCH         1370         KLCN         1290         KTBR         1300         WBBM         700         WDGY         1390           KFII         1310         KGCR         1220         KLDS         950         <								1130	WBAA	1400	WDAE	
KFEQ         560         KGB         1360         KGW         620         KSO         1380         WBAL         1060         WDAH         1310           KFEY         1210         KGBU         990         KCY         1200         KSOO         1110         WBAL         1060         WDAH         1310           KFFH         1300         KGBY         930         KKIK         1420         KGBZ         930         KICK         1420         WBAW         1490         WDBJ         930           KFFI         640         KGCA         1270         KJBS         1100         KTAT         1240         WBAK         1210         WDBJ         930           KFIFI         440         KGCA         1270         KKJBS         1100         KTAT         1240         WBBC         1400         WDEL         1120           KFIFI         1420         KGCB         1370         KKP         1420         KTBI         1300         WBBL         1370         WDGV         1380           KFIFI         1420         KGCN         1420         KLDS         950         KTNT         1170         WBBW         1200         WDRC         1330           KFIJ								1200		1430		
KFFY         1210         KGBU         990         KGY         1200         KSOO         1110         WBAO         120         WDAY         1280           KFGQ         1310         KGBX         1370         KHQ         590         KTAB         550         WBAW         1490         WDAY         1280           KFH         1200         KGBZ         930         KHQ         590         KTAB         550         WBAX         1210         WDBJ         930           KFH         1200         KGBZ         930         KKP         1420         KBBS         1400         WBBL         1400         WDBJ         930           KFFI         1420         KGCB         1370         KLR         970         KTBI         1300         WBBL         1400         WDGY         1390           KFID         1230         KGCH         1420         KLCN         1290         KTBS         1300         WBBM         1300         WBM         770         WDGY         1330           KFIJ         1310         KGCR         1420         KLLS         1440         KTTS         1470         WBM         1200         WDGY         1210           KFJI         <				1360		620	KSO	1380				
KFGQ         1310         KGBX         1370         KHJ         900         KSTP         1460         WBAW         1490         WDAY         1298           KFHA         1200         KGBX         930         KHCK         1420         KTAB         550         WBAW         1490         WDBJ         930           KFI         640         KGCA         1270         KJBS         1100         KTAT         1240         WBBC         1400         WDEJ         1370         WDDJ         1390           KFIO         1230         KGCH         930         KKP         1420         KTBR         1300         WBBL         1370         WDOJ         1390           KFIU         1310         KGCH         1420         KKD         1420         KTBR         1300         WBBR         1300         WDDJ         1280           KFJI         1310         KGCN         1420         KLCN         1290         KTSA         1290         WBBY         1200         WDWD         1210           KFJI         1370         KGCX         1420         KLX         1270         KTSA         1290         WBBY         1200         WEAF         660           KFJI			KGBU		KGY	1200		1110				
KFHA         1200         KGBZ         930         KICK         1420         KTAP         1420         WBAX         1210         WDBO         620           KFI         640         KGCA         1270         KJBS         1100         KTAT         1240         WBBC         1400         WDEL         1120           KFIO         1230         KGCB         1370         KJR         970         KTBI         1300         WBBL         1370         WDOD         1230           KFIO         1230         KGCH         1370         KLCN         1290         KTHS         1300         WBBH         1370         WDOD         1280           KFII         1420         KGCN         1420         KLCN         1290         KTHS         800         WBBM         1300         WDDU         1220           KFJI         1470         KGCN         1420         KLLA         1390         KTSA         1290         WBBY         1200         WDWF         1210           KFJI         1370         KGCX         1420         KLZ         880         KUJ         1500         WBET         1360         WEAM         1370         KLZ         880         KUJ         1500 <td></td> <td>1310</td> <td>KGBX</td> <td>1370</td> <td>KHJ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		1310	KGBX	1370	KHJ							
KFII         640         KGCA         1270         KJBS         1100         KTAT         1240         WBBC         1400         WDEL         1129           KFIIF         1420         KGCB         1370         KJBS         970         KTBI         1300         WBBC         1400         WDGY         1390           KFIZ         1420         KGCH         930         KKP         1420         KTBI         1300         WBBM         770         WDOJ         1280           KFIU         1310         KGCN         1420         KLCN         1290         KTHS         800         WBBR         1300         WDRC         1330           KFJI         1310         KGCN         1420         KLRA         1390         KTSA         1270         WBBW         1200         WDRC         1330           KFJI         1370         KGCX         1420         KLZ         880         KUJ         1500         WBET         1300         WBAH         1310         WEAN         1370         WEAN         1370         WEAN         1370         WEAN         1370         WEAN         1370         WEAN         1370         WEAN         1300         WBAH         1310	KFH	1300	KGBY									
KFIF         1420         KGCB         1370         KJR         970         KTBI         1300         WBBL         1370         WDGY         1390           KFIO         1230         KGCH         930         KKP         1420         KTBR         1300         WBBM         770         WDOD         1280           KFIU         1310         KGCN         1420         KLDS         950         KTNT         1170         WBBW         1200         WDRC         1330           KFJI         1470         KGCR         1210         KLRA         1390         KTSA         1290         WBBY         1200         WDWF         1210           KFJI         1370         KGCX         1420         KLX         1390         KTSA         1290         WBBY         1200         WDWF         1210           KFJI         1370         KGCX         1420         KLZ         880         KUJ         1500         WBET         1360         WEAM         1370         WE												
KFIIO         1230         KGCH         930         KKP         1420         KTBR         1300         WBBM         770         WDOD         1280           KFIZ         1420         KGCI         1370         KLCN         1290         KTHS         800         WBBM         1300         WDRC         1330           KFIJ         1420         KGCN         1420         KLDS         950         KTNT         1170         WBBW         1200         WDRC         1330           KFJJ         1470         KGCX         1210         KLRA         1390         KTSA         1290         WBBY         1200         WDZ         1070           KFJJ         1370         KGCX         1420         KLZ         880         KUJ         1500         WBET         1360         WEAN         1370           KFJY         1310         KGDM         1500         KMBC         950         KUOM         570         WBMH         1310         WEAN         1360         WEAN         1360         WEAN         1360         WEAN         1360         WEAN         1370         WEAN         1370         WEAN         1370         WEAN         1370         WEAN         1370         WE					KJBS							
KFIZ         1420         KGGI         1370         KLCN         1290         KTHS         800         WBBR         1300         WDRC         1330           KFIU         1310         KGCN         1420         KLDS         950         KTNT         1170         WBBW         1200         WDSU         1270           KFJF         1470         KGCX         1420         KLRA         1390         KTSA         1290         WBBY         1200         WDSU         1270           KFJF         1470         KGCX         1420         KLS         1440         KTUE         1420         WBBZ         1200         WDZ         1070           KFJJ         1370         KGCX         1420         KLZ         880         KUJ         1500         WBCM         1410         WEAF         660           KFJZ         1310         KGDM         1350         KMBC         950         KUOM         570         WBMH         1310         WEAN         1160           KFJZ         1310         KGDD         1210         KMBC         950         KUOM         570         WBMH         1310         WEAR         1070           KFJZ         1310         KGDW												
KFIU         1310         KCCN         1420         KLDS         950         KTNT         1170         WBBW         1200         WDSU         1270           KFJJB         1200         KGCR         1210         KLS         1440         KTSA         1290         WBBZ         1200         WDV         1210           KFJJ         1370         KGCX         1420         KLX         1270         KTW         1270         WBEM         1410         WEAM         1300           KFJJ         1310         KGDE         1200         KMA         930         KUOA         1300         WBBT         1300         WEAM         1370           KFJZ         1370         KGDP         1210         KMBC         950         KUOM         570         WBMH         1310         WEAN         1360           KFKB         1330         KGDP         1210         KMED         1310         KUSD         890         WBMS         1450         WEAR         1700           KFKB         1130         KGDP         1210         KMED         1310         KUSD         890         WBMS         1450         WEAR         1700         WEAR         1970         WEBA         1230<								1300				
KFJB         1200         KGCR         1210         KLRA         1390         KTSA         1290         WBBY         1200         WDWF         1210           KFJF         1470         KGCX         1200         KLS         1440         KTUE         1420         WBBZ         1200         WDZ         1070           KFJI         1370         KGCX         1420         KLX         1270         KTW         1270         WBCM         1410         WEAM         660           KFJR         1300         KGDE         1200         KMA         930         KUOA         1390         WBET         1360         WEAM         1370           KFJZ         1310         KGDM         1150         KMBC         950         KUOM         570         WBMS         1450         WEAN         1160           KFKA         880         KGDR         1500         KMIC         1120         KUT         1120         WBMS         1450         WEBC         1280           KFKA         1830         KGDW         1200         KMMJ         1200         KVI         1340         WBOW         1310         WEBA         1250         WEBC         1280         WEBC         1280 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1170</td> <td></td> <td></td> <td></td> <td></td>								1170				
KFJF         1470         KGCU         1200         KLS         1440         KTUE         1420         WBBZ         1200         WDZ         1070           KFJI         1370         KGCX         1420         KLX         1270         KTW         1270         WBCM         1410         WEAF         660           KFJM         550         KGDA         1370         KLZ         880         KUJ         1500         WBET         1360         WEAM         1370           KFJY         1310         KGDM         150         KMBC         950         KUOM         570         WBMH         1310         WEAN         1160           KFKJZ         1370         KGDP         1210         KMBC         950         KUSD         890         WBMS         1450         WEAR         1070           KFKB         1130         KGDW         930         KMJ         1200         KVI         1340         WBOX         1350         WEBC         1230         WEBC <td></td>												
KFJI         1370         KGCX         1420         KLX         1270         KTW         1270         WBCM         1410         WEAF         660           KFJM         550         KGDA         1370         KLZ         380         KUJ         1500         WBET         1360         WEAM         1370           KFJR         1300         KGDM         1150         KMBC         950         KUOA         1390         WBST         1230         WEAN         1160           KFJZ         1370         KGDP         1210         KMBC         950         KUOM         570         WBMH         1310         WEAN         1370           KFKA         880         KGDP         1210         KMEC         1310         KUSD         890         WBMS         1450         WEAR         1070           KFKA         880         KGDW         1300         KMIC         1120         KUT         1120         WBMY         1350         WEBR         1200           KFKX         1020         KGDY         1200         KMMJ         740         KVL         1500         WBMS         1310         WEBG         1210           KFKX         1020         KGET												
KFJM         550         KGDA         1370         KLZ         880         KUJ         1500         WBET         1360         WEAM         1370           KFJR         1300         KGDE         1200         KMAA         930         KUOA         1390         WBIS         1230         WEAN         1160           KFJY         1310         KGDM         1150         KMBC         950         KUOM         570         WBMH         1310         WEAO         550           KFKA         880         KGDR         1500         KMIC         1120         KUT         1120         WBMY         1350         WEAR         1070           KFKA         880         KGDR         1500         KMIC         1120         KUT         1120         WBNY         1350         WEBC         1280           KFKA         1200         KGDY         1200         KMMJ         740         KVI         1340         WBOQ         860         WEBE         1210           KFKX         1020         KGEF         1300         KMO         1340         KVO         1140         WBRC         930         WEBR         1210           KFLZ         1420         KGEK					KLX							
KFJR         1300         KGDE         1200         KMA         930         KUOA         1390         WBIS         1230         WEAN         1160           KFJY         1310         KGDM         1150         KMBC         950         KUOA         1390         WBMH         1310         WEAN         550           KFJZ         1370         KGDP         1210         KMED         1310         KUSD         890         WBMS         1450         WEAR         1070           KFKA         880         KGDW         1500         KMIC         1120         KUT         1120         WBNY         1350         WEBC         1280           KFKU         1220         KGEW         1200         KMMJ         740         KVL         1500         WBOW         1310         WEBE         1210           KFKX         1020         KGEK         1200         KMOX         1090         KVOS         1200         WBRC         930         WEBR         1310         WEBR         1210         WEBR         1310         WEBR         1310         WEBR         1310         WEBR         1310         WEDL         1220         WEBR         1310         WEBR         1310         WE									WBET	1360		
KFJY         1310         KGDM         1150         KMBC         950         KUOM         570         WBMH         1310         WEAO         550           KFJZ         1370         KGDP         1210         KMBC         1310         KUSD         890         WBMS         1450         WEAR         1070           KFKA         880         KGDR         1500         KMIC         1120         KVI         1340         WBOQ         860         WEBC         1280           KFKB         1130         KGDW         930         KMJ         1200         KVI         1340         WBOQ         860         WEBC         1280           KFKU         1220         KGEF         1300         KMO         1340         KVOO         1140         WBRC         930         WEBR         1310         WEBR         13												
KFJZ         1370         KGDP         1210         KMED         1310         KUSD         890         WBMS         1450         WEAR         1070           KFKA         880         KGDW         930         KMIC         1120         KUT         1120         WBNY         1350         WEBC         1280           KFKB         1130         KGDW         930         KMIC         1120         KUT         1120         WBNY         1350         WEBC         1280           KFKX         1220         KGDY         1200         KMMJ         740         KVL         1500         WBOW         1310         WEBQ         1210           KFKX         1020         KGEK         1200         KMOX         1090         KVOS         1200         WBRE         1310         WEBW         600           KFLV         1410         KGEK         1200         KMTR         570         KWBS         1500         WBRE         1310         WEBW         600           KFNT         890         KGES         930         KNA         1050         KWEA         1210         WBT         1080         WEBW         1310         WEDH         1420           KFNT							KUOM	570				
KFKA         880         KGDR         1500         KMIC         1120         KUT         1120         WBNY         1350         WEBC         1280           KFKB         11200         KGDV         1200         KMJ         1200         KVI         1340         WBOQ         860         WEBC         1210           KFKU         1220         KGGF         1300         KMO         1340         KVOO         1140         WBOQ         860         WEBQ         1210           KFKZ         1200         KGEK         1200         KMOX         1090         KVOS         1200         WBRC         930         WEBW         600           KFLV         1410         KGEN         1200         KMTR         570         KWBS         1500         WBRL         1310         WEBW         600           KFLX         1370         KGEO         930         KNRC         780         KWER         1310         WBRD         1310         WEBW         600           KFNF         890         KGES         930         KOA         830         KWG         1210         WBZA         990         WEHS         1310         WEMC         590           KFOR			KGDP	1210	KMED	1310	KUSD					
KFKU         1220         KGDY         1200         KMMJ         740         KVL         1500         WBOW         1310         WEBQ         1210           KFKX         1020         KGEF         1300         KMO         1340         KVOO         1140         WBRC         930         WEBR         1310           KFKZ         1200         KGEK         1200         KMOX         1090         KVOS         1200         WBRE         1310         WEBW         600           KFLV         1410         KGEN         1200         KMTR         570         KWBS         1500         WBRL         1310         WEDC         1210           KFNX         1370         KKGEO         930         KNRC         780         KWCR         1310         WBSO         780         WEDH         1420           KFNF         890         KGES         930         KOA         560         KWJJ         1060         WBZ         990         WEHS         1310           KFOX         1250         KGEZ         1310         KOB         1180         KWK         1370         WCAC         600         WEPS         1200           KFPW         1310         KGFF		880	KGDR	1500								
KFKX         1020         KGEF         1300         KMO         1340         KVOO         1140         WBRC         930         WEBR         1310           KFKZ         1200         KGEK         1200         KMOX         1090         KVOS         1200         WBRC         930         WEBW         600           KFLV         1410         KGEN         1200         KMTR         570         KWBS         1500         WBRL         1430         WEDC         1210           KFLX         1370         KGEO         930         KNRC         780         KWCR         1310         WBSO         780         WEDH         1420           KFNK         1250         KGES         930         KOA         830         KWGA         1210         WBSO         780         WEDH         1420           KFOR         1210         KGES         930         KOA         560         KWJJ         1060         WBZ         990         WEHS         1310           KFOX         1250         KGEZ         1310         KOB         1180         KWK         1350         WCAD         1220         WEMR         590           KFPL         1310         KGFF	$\mathbf{K}\mathbf{F}\mathbf{K}\mathbf{B}$											
KFKZ         1200         KGEK         1200         KMOX         1090         KVOS         1200         WBRE         1310         WEBW         600           KFLV         1410         KGEN         1200         KMTR         570         KWBS         1500         WBRL         1430         WEDC         1210           KFLX         1370         KGEO         930         KNRC         780         KWCR         1310         WBSO         780         WEDH         1420           KFNX         1250         KGER         1370         KNX         1050         KWEA         1210         WBT         1080         WEEH         590           KFOR         1210         KGES         930         KOA         830         KWG         1200         WBZ         990         WEHS         1310           KFOX         1250         KGEZ         1310         KOB         1180         KWK         1350         WCAC         600         WEHS         1310           KFPL         1310         KGFF         1420         KOCW         1420         KWK         1350         WCAC         600         WEHS         1310           KFPL         1310         KGFF												1210
KFLV         1410         KGEN         1200         KMTR         570         KWBS         1500         WBRL         1430         WEDC         1210           KFLX         1370         KGEO         930         KNRC         780         KWCR         1310         WBSO         780         WEDH         1420           KFMX         1250         KGER         1370         KNX         1050         KWEA         1210         WBT         1080         WEHS         1310           KFNF         890         KGES         930         KOA         830         KWG         1200         WBZ         990         WEHS         1310           KFOR         1210         KGES         930         KOA         830         KWG         1200         WEZ         990         WEHS         1310           KFOR         1250         KGEZ         1310         KOB         1180         KWK         1350         WCAC         600         WENR         870           KFPL         1310         KGFF         1420         KOCW         1420         KWKC         1370         WCAE         1220         WENS         1200           KFPW         1390         KGFI <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>600</td></td<>												600
KFLX         1370         KGEO         930         KNRC         780         KWCR         1310         WBSO         780         WEDH         1420           KFMX         1250         KGER         1370         KNX         1050         KWEA         1210         WBT         1080         WEEI         590           KFNF         890         KGES         930         KOA         830         KWG         1200         WBZ         990         WEMS         1310           KFOR         1210         KGEW         1200         KOAC         560         KWJJ         1060         WBZA         990         WEMC         590           KFPX         1310         KGFF         1420         KOCW         1420         KWK         1350         WCAC         600         WENR         870           KFPM         1310         KGFF         1420         KOCW         1420         KWKC         1370         WCAD         1220         WEVD         1300           KFPW         1390         KGFI         1310         KOIL         1260         KWLC         1270         WCAH         1430         WEW         760           KFQU         1420         KGFI         <												
KFMX         1250         KGER         1370         KNX         1050         KWEA         1210         WBT         1080         WEEI         590           KFNF         890         KGES         930         KOA         830         KWG         1200         WBZ         990         WEHS         1310           KFOR         1210         KGEW         1200         KOAC         560         KWJJ         1060         WBZA         990         WEMC         590           KFOX         1250         KGEZ         1310         KOB         1180         KWK         1370         WCAC         600         WENR         870           KFPL         1310         KGFF         1420         KOCW         1420         KWKC         1370         WCAD         1220         WEPS         1200           KFPW         1340         KGFH         1000         KOIL         1260         KWLC         1270         WCAH         1430         WEW         760           KFPY         1390         KGFI         1310         KOIN         940         KWSC         1390         WCAJ         590         WFAN         610           KFQU         1420         KGFK <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>												
KFNF         890         KGES         930         KOA         830         KWG         1200         WBZ         990         WEHS         1310           KFOR         1210         KGEW         1200         KOAC         560         KWJJ         1060         WBZA         990         WEMC         590           KFOX         1250         KGEZ         1310         KOB         1180         KWK         1350         WCAC         600         WENR         870           KFPL         1310         KGFF         1420         KOCW         1420         KWKC         1370         WCAD         1220         WEPS         1200           KFPW         1340         KGFH         1000         KOIL         1260         KWLC         1270         WCAH         1430         WEW         760           KFPW         1390         KGFI         1310         KOIN         940         KWSC         1390         WCAJ         590         WFAN         1040           KFQU         1420         KGFK         1200         KOMO         920         KWWC         1500         WCAJ         590         WFAN         610           KFQW         1420         KGFK         <												
KFOR         1210         KGEW         1200         KOAC         560         KWJJ         1060         WBZA         990         WEMC         590           KFOX         1250         KGEZ         1310         KOB         1180         KWK         1350         WCAC         600         WENR         870           KFPL         1310         KGFF         1420         KOCW         1420         KWKC         1370         WCAD         1220         WEVS         1200           KFPM         1310         KGFF         1370         KOH         1370         KWKH         850         WCAE         1220         WEVD         1300           KFPW         1340         KGFH         1000         KOIL         1260         KWKC         1270         WCAH         1430         WEW         760           KFPY         1390         KGFI         1310         KOIN         940         KWSC         1390         WCAJ         590         WFAA         1040           KFQU         1420         KGFK         1200         KOMO         920         KWWC         1260         WCAJ         1250         WFBC         1200           KFQW         1420         KGFK											WEHS	
KFOX         1250         KGEZ         1310         KOB         1180         KWK         1350         WCAC         600         WENR         870           KFPL         1310         KGFF         1420         KOCW         1420         KWKC         1370         WCAD         1220         WEPS         1200           KFPM         1310         KGFG         1370         KOH         1370         KWKH         850         WCAE         1220         WEVD         1300           KFPW         1340         KGFH         1000         KOIL         1260         KWLC         1270         WCAH         1430         WEW         760           KFPY         1390         KGFI         1310         KOIL         1260         KWLC         1270         WCAJ         590         WFAA         1040           KFQU         1420         KGFI         1420         KOMO         920         KWWC         1260         WCAL         1250         WFAN         610           KFQW         1420         KGFL         1370         KOOS         1370         KXA         570         WCAO         600         WFBC         1200           KFQZ         850         KGFW									WBZA	990	WEMC	590
KFPL         1310         KGFF         1420         KOCW         1420         KWKC         1370         WCAD         1220         WEPS         1200           KFPM         1310         KGFG         1370         KOH         1370         KWKH         850         WCAD         1220         WEVD         1300           KFPW         1340         KGFH         1000         KOIL         1260         KWLC         1270         WCAH         1430         WEW         760           KFPY         1390         KGFI         1310         KOIL         1270         KWSC         1390         WCAJ         590         WFAA         1040           KFQU         1420         KGFK         1200         KOMO         920         KWWG         1260         WCAL         1250         WFAN         610           KFQW         1420         KGFL         1370         KOOS         1370         KXA         570         WCAM         1280         WFBC         1200           KFQW         1420         KGFK         1200         KORE         1420         KXL         1250         WCAP         1280         WFBC         1200           KFQZ         850         KGFW									WCAC	600		
KFPM         1310         KGFG         1370         KOH         1370         KWKH         850         WCAE         1220         WEVD         1300           KFPW         1340         KGFH         1000         KOIL         1260         KWLC         1270         WCAH         1430         WEW         760           KFPY         1390         KGFI         1310         KOIN         940         KWSC         1390         WCAJ         590         WFAA         1040           KFQD         1230         KGFJ         1420         KOL         1270         KWTC         1500         WCAL         1250         WFAN         610           KFQW         1420         KGFK         1200         KOMO         920         KWWG         1260         WCAM         1280         WFBC         1200           KFQW         1420         KGFL         1370         KOOS         1370         KXA         570         WCAO         600         WFBC         1200           KFQZ         850         KGFW         1420         KORE         1420         KXL         1250         WCAP         1280         WFBG         1310           KFRU         630         KGGF							KWKC	1370				
KFPY         1390         KGFI         1310         KOIN         940         KWSC         1390         WCAJ         590         WFAA         1040           KFQD         1230         KGFJ         1420         KOL         1270         KWTC         1500         WCAL         1250         WFAN         610           KFQU         1420         KGFK         1200         KOMO         920         KWWG         1260         WCAM         1280         WFBC         1200           KFQW         1420         KGFL         1370         KOOS         1370         KXA         570         WCAO         600         WFBC         1200           KFQZ         850         KGFW         1420         KORE         1420         KXL         1250         WCAP         1280         WFBG         1310           KFRC         610         KGFX         580         KOW         1390         KXRO         1420         WCAT         1200         WFBG         1310           KFRU         630         KGGF         1010         KPCB         1210         KYA         1230         WCAU         1170         WFBL         900           KFSD         600         KGGH				1370								
KFQD       1230       KGFJ       1420       KOL       1270       KWTC       1500       WCAL       1250       WFAN       610         KFQU       1420       KGFK       1200       KOMO       920       KWWG       1260       WCAM       1280       WFBC       1200         KFQW       1420       KGFL       1370       KOOS       1370       KXA       570       WCAO       600       WFBC       1200         KFQZ       850       KGFW       1420       KORE       1420       KXL       1250       WCAP       1280       WFBG       1310         KFRC       610       KGFX       580       KOW       1390       KXRO       1420       WCAT       1200       WFBJ       1370         KFRU       630       KGGF       1010       KPCB       1210       KYA       1230       WCAU       1170       WFBL       900         KFSD       600       *KGGH       1310       KPJM       1500       KYW       1020       WCAZ       1070       WFBR       1270         KFUL       1290       KGHB       1320       KPO       680       KZM       1370       WCBA       1440       WFDF	KFPW	1340	KGFH	1000	KOIL							
KFQU       1420       KGFK       1200       KOMO       920       KWWG       1260       WCAM       1280       WFBC       1200         KFQW       1420       KGFL       1370       KOOS       1370       KXA       570       WCAO       600       WFBE       1200         KFQZ       850       KGFW       1420       KORE       1420       KXL       1250       WCAP       1280       WFBG       1310         KFRC       610       KGFX       580       KOW       1390       KXRO       1420       WCAT       1200       WFBJ       1370         KFRU       630       KGGF       1010       KPCB       1210       KYA       1230       WCAU       1170       WFBL       900         KFSD       600       *KGGH       1310       KPJM       1500       KYW       1020       WCAZ       1070       WFBR       1270         KFUL       1290       KGHB       1320       KPO       680       KZM       1370       WCBA       1440       WFDF       1310	KFPY			1310								
KFOW         1420         KGFL         1370         KOOS         1370         KXA         570         WCAO         600         WFBE         1200           KFQZ         850         KGFW         1420         KORE         1420         KXL         1250         WCAP         1280         WFBG         1310           KFRC         610         KGFX         580         KOW         1390         KXRO         1420         WCAT         1200         WFBJ         1370           KFRU         630         KGGF         1010         KPCB         1210         KYA         1230         WCAU         1170         WFBL         900           KFSD         600         KGGH         1310         KPJM         1500         KYW         1020         WCAZ         1200         WFBM         1050           KFSG         1120         KGGM         1370         KPLA         570         KYWA         1020         WCAZ         1070         WFBR         1270           KFUL         1290         KGHB         1320         KPO         680         KZM         1370         WCBA         1440         WFDF         1310		1230			KOL	1270						
KFQZ         850         KGFW         1420         KORE         1420         KXL         1250         WCAP         1280         WFBG         1310           KFRC         610         KGFX         580         KOW         1390         KXRO         1420         WCAT         1200         WFBJ         1370           KFRU         630         KGGF         1010         KPCB         1210         KYA         1230         WCAU         1170         WFBL         900           KFSD         600         KGGH         1310         KPJM         1500         KYW         1020         WCAX         1200         WFBM         1050           KFSG         1120         KGGM         1370         KPLA         570         KYWA         1020         WCAZ         1070         WFBR         1270           KFUL         1290         KGHB         1320         KPO         680         KZM         1370         WCBA         1440         WFDF         1310	KFQU		KGFK					1260				
KFRC         610         KGFX         580         KOW         1390         KXRO         1420         WCAT         1200         WFBJ         1370           KFRU         630         KGGF         1010         KPCB         1210         KYA         1230         WCAU         1170         WFBL         900           KFSD         600         KGGH         1310         KPJM         1500         KYW         1020         WCAX         1200         WFBM         1050           KFSG         1120         KGGM         1370         KPLA         570         KYWA         1020         WCAZ         1070         WFBR         1270           KFUL         1290         KGHB         1320         KPO         680         KZM         1370         WCBA         1440         WFDF         1310									WCAD			1310
KFRU 630 KGGF 1010 KPCB 1210 KYA 1230 WCAU 1170 WFBL 900 KFSD 600 KGGH 1310 KPJM 1500 KYW 1020 WCAX 1200 WFBM 1050 KFSG 1120 KGGM 1370 KPLA 570 KYWA 1020 WCAZ 1070 WFBR 1270 KFUL 1290 KGHB 1320 KPO 680 KZM 1370 WCBA 1440 WFDF 1310	KFQZ		KGFW	1420					WCAT			1370
KFSD 600 KGGH 1310 KPJM 1500 KYW 1020 WCAX 1200 WFBM 1050 KFSG 1120 KGGM 1370 KPLA 570 KYWA 1020 WCAZ 1070 WFBR 1270 KFUL 1290 KGHB 1320 KPO 680 KZM 1370 WCBA 1440 WFDF 1310												
KFSG 1120 KGGM 1370 KPLA 570 KYWA 1020 WCAZ 1070 WFBR 1270 KFUL 1290 KGHB 1320 KPO 680 KZM 1370 WCBA 1440 WFDF 1310					KDIM							
KFUL 1290 KGHB 1320 KPO 680 KZM 1370 WCBA 1440 WFDF 1310		1190		1970	KPLA							1270
MICH THE INCIDENT TO THE TANK THE TANK THE TANK THE TANK		1290										1310
	KFUM	1270	KGHD	1420	KPOF		WAAD	1120			WFI	

Call	Free	Call	Fre-	Call	Fre-	Call	Fre-	Call	Fre-	Call	Fre-
Signal	quency	Signal WIP	quency	Signal	quency 1370	Signal WOS	quency	Signal	quency	Signal	quency
WFIW WFJC	$940 \\ 1450$	WISN	$\begin{array}{c} 610 \\ 1120 \end{array}$	WLSI WLTH	1400	wox	$\begin{array}{c} 630 \\ 1130 \end{array}$	WSUN WSVS	$\begin{array}{c} 900 \\ 1370 \end{array}$	CJSC	$\begin{array}{c} 580 \\ 730 \end{array}$
WFKD	1310	WJAD	1240	WLW	700	wow	590	WSYR	570	CKCD	730
WFLA	900	WJAG	1060	WLWL	1100	wowo	1160	WTAD	1440	CKCI	880
WGAL	1310	WJAK	1310	WMAC	1440	WPAP	1010	WTAG	580	CKCK	960
WGBB WGBC	$\begin{array}{c} 1210 \\ 1430 \end{array}$	WJAM WJAR	$\begin{array}{c} 1200 \\ 890 \end{array}$	WMAF WMAK	$\begin{array}{c} 1360 \\ 900 \end{array}$	WPAW WPCC	$\begin{array}{c} 1210 \\ 570 \end{array}$	WTAM WTAQ	$\begin{array}{c} 1070 \\ 1330 \end{array}$	CKCL	$\begin{array}{c} 580 \\ 690 \end{array}$
WGBF	630	WJAS	1290	WMAL	630	WPCH	810	WTAR	780	CKCR	1010
WGBI	880	WJAX	1260	WMAN	1210	WPG	1100	WTAS	720	CKCV	880
WGBS	1180	WJAY	1450	WMAQ	670	WPOR	780	WTAW	1120	CKFC	730
WGCM WGCP	1210	WJAZ WJBC	$\begin{array}{c} 1480 \\ 1200 \end{array}$	WMAY WMAZ	$\begin{array}{c} 1200 \\ 890 \end{array}$	WPRC WPSC	$\begin{array}{c} 1200 \\ 1230 \end{array}$	WTAX WTAZ	$1210 \\ 1210$	CKGW	960
WGES	$\begin{array}{c} 1250 \\ 1360 \end{array}$	WJBI	$\frac{1200}{1210}$	WMBA	1500	WPSW	1500	WTBO	1320	CKMC	$840 \\ 1210$
WGH	1310	WJBK	1370	WMBC	1420	WPTF	680	WTFF	1460	CKMO	730
WGHP	1240	WJBL	1200	WMBD	1440	WQAM	1240	WTFI	1450	CKNC	580
WGL	$\begin{array}{c} 1230 \\ 1250 \end{array}$	WJBO WJBT	$\begin{array}{c} 1370 \\ 770 \end{array}$	WMBF WMBG	$\begin{array}{c} 560 \\ 1210 \end{array}$	WQAN WQAO	880	WTHS WTIC	$\begin{array}{c} 1310 \\ 600 \end{array}$	CKOC	880
WGMS WGN	$\begin{array}{c} 1230 \\ 720 \end{array}$	WJBU	1210	WMBH	$1420 \\ 1420$	WQBC	$\begin{array}{c} 1010 \\ 1360 \end{array}$	WTMJ	620	CKOW   CKPC	$\begin{array}{c} 840 \\ 1210 \end{array}$
WGR	$5\overline{50}$	WJBW	1200	WMBI	1080	WQBJ	1200	WWAE	$1\overline{200}$	CKPR	1120
WGST	890	WJBY	1210	WMBL	1310	WQBZ	1420	WWJ	920	CKSP	1010
WGY	790	WJJD	1180	WMBM	1500	WRAF WRAK	$\frac{1200}{1270}$	WWL WWNC	$\begin{array}{c} 850 \\ 570 \end{array}$	CKUA	580
WHA WHAD	$\begin{array}{c} 570 \\ 900 \end{array}$	WJKS WJR	$\begin{array}{c} 1360 \\ 750 \end{array}$	WMBO WMBQ	$\begin{array}{c} 1370 \\ 1500 \end{array}$	WRAW	$\begin{array}{c} 1370 \\ 1310 \end{array}$	WWRL	1500	CKWX	$\begin{array}{c} 730 \\ 780 \end{array}$
WHAM	1150	WJSV	1460	WMBR	1210	WRAX	1020	WWVA	1160	CNRA	630
WHAP	1300	WJZ	760	WMBS	1430	WRBC	1240	CFAC	690	CNRC	690
WHAS	820	WKAQ   WKAR	580	WMC WMCA	$\begin{array}{c} 780 \\ 570 \end{array}$	WRBI WRBJ	1310	CFBO CFCA	$\frac{890}{840}$	CNRE	580
WHAZ WHB	$\begin{array}{c} 1300 \\ 950 \end{array}$	WKAV	$\begin{array}{c} 1040 \\ 1310 \end{array}$	WMES	$\begin{array}{c} 570 \\ 1500 \end{array}$	WRBL	$\begin{array}{c} 1500 \\ 1200 \end{array}$	CFCF	730	CNRM	$\begin{array}{c} 730 \\ 690 \end{array}$
WHBC	1200	WKBB	1310	WMPC	1310	WRBQ	1210	CFCH	600	CNRQ	880
WHBD	1370	WKBC	1310	WMRJ	1420	WRBT	1370	CFCN	690	CNRR	960
WHBF	1210	WKBE WKBF	1200	WMSG WNAC	$\frac{1350}{1230}$	WRBU WRBW	1210	CFCO CFCT	$\begin{array}{c} 1210 \\ 630 \end{array}$	CNRS	910
WHBL WHBP	$1410 \\ 1310$	WKBH	$\begin{array}{c} 1400 \\ 1380 \end{array}$	WNAD	$1230 \\ 1010$	WRBX	$\begin{array}{c} 1310 \\ 930 \end{array}$	CFCY	960	CNRV	$\begin{array}{c} 840 \\ 1030 \end{array}$
WHBQ	1370	WKBI	1310	WNAT	1310	WRC	950	CFJC	1120	CNRW	780
WHBU	1210	WKBN	570	WNAX	570	WREC	600	CFLC	1010	Alphal	etical
WHBW WHBY	$\begin{array}{c} 1500 \\ 1200 \end{array}$	WKBO WKBP	$1450 \\ 1420$	WNBF	$\begin{array}{c} 1500 \\ 1310 \end{array}$	WREN WRHM	$\frac{1220}{1250}$	CFMC   CFNB	$\frac{1120}{1210}$	List of	
WHDF	1370	WKBQ	1350	WNBJ	1310	WRJN	1200	CFQC	910	Stat	
WHDI	1390	WKBS	1310	WNBO	1200	WRK	1310	CFRB	960	PWX 2OK	$\begin{array}{c} 750 \\ 860 \end{array}$
WHDL	1420	WKBV	1500	WNBQ	1500	WRM	570	CFRC	1120	20L	1090
WHEC	$\begin{array}{c} 1440 \\ 1310 \end{array}$	WKBW WKBZ	$\begin{array}{c} 1470 \\ 1500 \end{array}$	WNBR   WNBW	$\begin{array}{c} 1430 \\ 1200 \end{array}$	WRNY	$\begin{array}{c} 1010 \\ 1040 \end{array}$	CHCA	690 960	6BY	1150
WHK	1390	WKEN	1040	WNBX	1200	WRUF	1470	CHCS	880	6JK	1090
WHN	1010	WKJC	1200	WNBZ	1290	WRVA	1110	CHCT	840	6KW 7SR	880 860
WHO	1000	WKRC	$\begin{array}{c} 550 \\ 900 \end{array}$	WNJ WNOX	$\begin{array}{c} 1450 \\ 560 \end{array}$	WSAI WSAJ	$\begin{array}{c} 800 \\ 1310 \end{array}$	CHGS	$\begin{array}{c} 1120 \\ 730 \end{array}$	Alphal	
WHOH WHPP	$\begin{array}{c} 830 \\ 1420 \end{array}$	WKY WLAC	1490	WNRC	1440	WSAN	$\begin{array}{c} 1310 \\ 1440 \end{array}$	CHMA	580	List of	
WHT	1480	WLAP	1200	WNYC	570	WSAR	1450	CHML	880	ican St	
WIAD	1370	WLB	1250	WOAI	1190	WSAZ	580	CHNC	580	CYA	1000
WIAS	1420	WLBC	$\begin{array}{c} 1310 \\ 1420 \end{array}$	WOAN	600	WSB WSBC	$\begin{array}{c} 740 \\ 1210 \end{array}$	CHNS	$\frac{930}{930}$	CYB	1090
WIBA WIBG	$\begin{array}{c} 1210 \\ 930 \end{array}$	WLBF   WLBG	$1200 \\ 1200$	WORK	$\begin{array}{c} 1280 \\ 1310 \end{array}$	WSBT	1230	CHRC	880	CYF CYH	$\begin{array}{c} 1130 \\ 800 \end{array}$
WIBM	1370	WLBH	$1\overline{420}$	WOBU	580	WSDA	1400	CHWC	960	CYJ	750
WIBO	570	WLBL	900	WOC	1000	WSEA	780	CHWK	1210	CYL	750
WIBR	1420	WLBO WLBV	$\frac{1310}{1210}$	WOCL	$\frac{1210}{1250}$	WSGH WSIS	$\begin{array}{c} 1400 \\ 1010 \end{array}$	CHYC CJBR	$\begin{array}{c} 730 \\ 960 \end{array}$	CYO	700
WIBS WIBU	$\begin{array}{c} 1450 \\ 1310 \end{array}$	WLBW	1210	WODA	560	WSIX	1210	CJCA	580	CYQ CYR	$\begin{array}{c} 930 \\ 630 \end{array}$
WIBW	1300	WLBX	1500	WOKO	1440	WSM	650	CJCJ	690	CYU	960
WIBX	1200	WLBZ	620	WOL	1310	WSMB	1320	CJGC	910	CYX	910
$egin{array}{c} \mathbf{WIBZ} \\ \mathbf{WICC} \end{array}$	$1500 \\ 1430$	WLCI WLEX	$1210 \\ 1420$	WOMT	$\begin{array}{c} 1210 \\ 1500 \end{array}$	WSMD WSMK	$\begin{array}{c} 1310 \\ 570 \end{array}$	CJGX CJHS	$\begin{array}{c} 630 \\ 910 \end{array}$	CYY	$\begin{array}{c} 550 \\ 860 \end{array}$
WIL	$\begin{array}{c} 1430 \\ 1420 \end{array}$	WLIB	$\frac{1420}{720}$	WOOD	$\begin{array}{c} 1300 \\ 1270 \end{array}$	WSPD	1340	CJOC	1120	CZF	970
WILM	1500	WLIT	560	WOQ	610	WSRO	1420	CJOR	1030	Haitia	
WINR	1210	WLOE	1500	WOR	710	WSSH   WSUI	1420	CJRM CJRW	$\begin{array}{c} 1010 \\ 1010 \end{array}$	HHK	830
WIOD	1240	WLS	870	WORD	1480	I W SUI	900	OUTLAA	1010	11111	

#### CONVENIENCE AND PLEASURE! GOOD THINGS TO EAT! ETC! ETC! ETC!

The next issue of STEVENSON'S RADIO BULLETIN will be on the news stands on July 1. We wouldn't have you miss it for the world! It's going to have some good things in it, things you'll smack your lips over.

### Log North American Broadcasting Stations

#### With Stations Listed by Wave Length and Frequency

A LL North American broadcasting stations, with their power, location and owner are listed here, arranged according to frequency in kilocycles and wave length in meters. A record of where each station comes in on the dial may be placed in the left hand margin.

Stations with 1,000 Watts and over are printed in bold face type. "Stations with an asterisk (\*) before them broadcast on limited time.

Through use of STEVENSON'S RADIO LOG it is possible to determine where any station should come in on the dials of your receiver.

Look up the wave length of your local station. Suppose, for example, that the station is on 610 kc (kilocycles), and that it comes in at 90 on your set.

Then the stations on 620 kc, the next channel below, should come in at about 89. Stations on 640 should come in at about 87.

Pick out a few stations which you get regularly, and mark down their dial settings. They will serve as guides to enable you to know just where to look for any particular station you want to get.

	Call			
	Letters	Power	Location Owne	r
	KFDY	500	Brookings, S. D. South Dakota	State College
550 Kc.—545.1 Met.	KFJM	500	Grand Forks, N. DUniversity of	North Dakota
	KFUO	500	St. Louis, MoConcordia Th	reological Seminary
Dial Reading:	KFYR	500	Bismarck, N. D. Hoskins-Meye	ar
	KSD	500	St. Louis, MoPulitzer Publ	lighing Co
		500	Oakland, CalifAss'd Broade	actors
	KTAB	750	*Columbus Ohio Ohio State II	nivareity
	WEAO	750	*Columbus, OhioOhio State Un Buffalo, N. YFederal Radio	o Corn
	WGR	500	Cincinnati, OhioKodel Radio	Corp.
	WKRC	900	Cincinnati, Onto	Corp.
			37 13 D 37 D.	
560 Kc.—535.4 Met.	CYY	100	Meridan, Mexico	malania Ca
	KFDM	500	Beaumont, Texas Magnolia Pet	Co. Don't
Dial Reading:	KFEQ	2500	St. Joseph, MoScroggin and	. Co. Bank,
	KIZ	1000	Dupont, ColoReynolds Rac	
	KOAC	1000	Corvallis, Oreg. Oregon State	Agricultural College.
	WFI	500	Philadelphia, PaStrawbridge	and Ciothier.
	WLIT	500	Philadelphia, PaLit Brothers.	
	WMBF	500	Miami Beach, FlaFleetwood II	otel.
	WNOX	1000	Knoxville, TennSterchi Broth	ers.
	woi	<b>500</b> 0	*Ames, IowaIowa State C	ollege.
570 Kc.—526.0 Met.	KGKO	250	Wichita Falls, Texas Highland Hei	ights Christian Church.
570 110. 520.5 1110.5	KMTR	1000	Hollywood, CalifKMTR Radio	o Corp.
Dial Reading:	KPLA	1000	Los Angeles, CalifPacific Develo	op. Radio Co.
g .	KUOM	500	Missoula, MontState Univers	sity of Montana.
	KXA	500	Seattle, Wash,American Rac	dio Tel. Co.
	WHA	750	Madison, WisUniversity of	Wisconsin,
	WIBO	5000	Desplaines, IllWIBO Broade	casting_Inc.
	WKBN	500	Youngstown, OhioW, P, Willia	mson, Jr.
	WMCA	500	New York CityGreeley Squa	re Hotel Co.
	WNAX	1000	Yankton, S. D. Gurney Seed	and Nursery Co.
	WNYC	500	New York CityDepartment I	Plant and Structures.
	WPCC	500	Chicago, IllNorth Shore	Congregational Church.
	WRM	500	Urbana. IllUniversity of	Illinois.
	WSMK	200	Dayton, Ohio Stanley M. K	rohn, Jr.
	WSYR	250	Dayton, OhioStanley M. K Syracuse, N. YClive B. Mer	edith.
	WWNC	1000	Asheville, N. CChamber of C	Jommerce.
580 Kc.—516.9 Met.	CHMA	250	Edmonton, Alta	1 Missionary Church.
DOO RE. DIOID MEET	CHNC	500	Toronto, OntToronto Radi	io Research Society.
Dial Reading:	CJCA	500	Edmonton Alta Edmonton Jo	mrnal Ltd.
	CJSC	500	Toronto, Ont Evening Tele	egrani,
	CKCL	500	Toronto, UntDominion Ba	ttery Co., Ltd.
	CKNC	500	Toronto, Ont Canadian Nat	tional Carbon Co., Ltd.
	CKUA	<b>50</b> 0	Edmonton, AltaUniversity of Edmonton, AltaCanadian Nat	Alberta.
	CNRE	500	Edmonton, Alta,Canadian Nat	tional Railways.
	KGFX	200	*Pierre, S. DDana McNeil.	
	KSAC	500	Manhattan, Kans Kansas State	Agricultural College.
	WKAQ	<b>500</b>	Manhattan, KansKansas State San Juan. P. RRadio Corp.	of Porto Rico.
	WOBU	250	Charleston, W. VaCharleston R	adio Broadcasting Co.
	WSAZ	250	Huntington W Va McKellar Ele	etric Co
	WSUI	500	Iowa City, Iowa State University	sity of Iowa.
	WTAG	250	Worcester, MassWorcester Te	I. Pub. Co.
590 Kc.—508.2 Met.	KHQ	1000	Spokane, WashLouis Wasme	er, Inc.
	WCAJ	500	Lincoln, NebrNebraska We	esleyan University.
Dial Reading:	WEEL	500	Boston, MassEdison Electr	ic Illuminating Co.
-	WEMC	1000	Berrien Springs, MichEmmanuel Mi	issionary College.
	wow	1000	Omaha, NebrWoodmen of	World.

	0.11		
600 Kc.—499.7 Met. Dial Reading:	Call Letters Pow CFCH 256 KFBU 500 KFSD 500 WCAC 256 WCAO 256 WEBW 250 WOAN 500 WTIC 500	Iroquois Falls, Ont	
610 Kc.—491.5 Met. Dial Reading:	WPAN 500 WIP 500 WOQ 1000	Pinnadelpina, Pa	Don Lee, IncKansas City StarKeystone Broadcasting Co., IncGimbel Bros., IncUnity School of Christlanity.
620 Kc.—483.6 Met. Dial Reading:	KFAD 500 KGW 1000 WDAE 1000 WDBO 1000 WLBZ 250 WTMJ 1000	Portland, Oreg Tampa, Fla Orlando, Fla Bangor, Maine	Rolling College Inc
630 Kc.—475.9 Met. Dial Reading:	CFCT 500 CJGX 500 CNRA 500 CYR 250 KFRU 500 WGBF 500 WMAL 250 WOS 500	Yorkton, Sask	Victoria Broadcasting AssnWinnipeg Grain ExchangeCanadian National RailwaysStephens CollegeWindows College
640 Kc.—468.5 Met.	KFI 5000 WAIU 5000	Los Angeles, Calif	
Dial Reading: 650 Kc.—461.3 Met. Dial Reading:	WSM 5000	Nashville, Tenn	National Life and Accident Ins. Co.
660 Kc.—454.3 Met. Dial Reading:	WAAW 500 <b>WEAF</b> 50000	*Omaha, Nebr Bellmore, N. Y	Omaha Grain Exchange. National Broadcasting Co., Inc.
670 Kc.—447.5 Met. Dial Reading:	WMAQ 5000	Chicago, Ill.	Chicago Daily News, Inc.
000 K 440 0 M	TTT-0 = 0.00		
680 Kc.—440.9 Met. Dial Reading:	<b>KPO</b> 5000 <b>WPTF</b> 5000		Hales Bros. Durham Life Ins. Co. (C. P. 10,000).
	WPTF 5000  CFAC 500  CFCN 1800  CHCA 250  CJCJ 250  CKCO 100	Calgary. Alta	Durham Life Ins. Co. (C. P. 10,000). Calgary HeraldW. W. Grant, LtdAlberta Publishing Co., LtdRadio Service and Repair Shop, LtdDr. G. M. Geldert (for Ottawa Radio.
Dial Reading: 690 Kc.—534.5 Met. Dial Reading:	CFAC 5000 CFCN 1800 CHCA 256 CJCJ 256 CKCO 100 CNRC 500 CNRC 500	Calgary. Alta. Ottawa, Ont. Calgary. Alta. Ottawa, Ont.	Durham Life Ins. Co. (C. P. 10,000).
Dial Reading: 690 Kc.—534.5 Met.	CFAC 5000 CFCN 1800 CHCA 256 CJCJ 256 CKCO 100 CNRC 500	Calgary. Alta Calgary. Alta Calgary. Alta Calgary. Alta Calgary. Alta Ottawa, Ont Calgary. Alta Ottawa, Ont Mexico City, Mexico. *Culver City. Calif.	Durham Life Ins. Co. (C. P. 10,000). Calgary HeraldW. W. Grant. LtdAlberta Publishing Co., LtdRadio Service and Repair Shop. LtdDr. G. M. Geldert (for Ottawa RadioAssociation)Canadian National RailwaysCanadian National Railways
Dial Reading: 690 Kc.—534.5 Met. Dial Reading:	CFAC 5000 CFCN 18000 CHCA 250 CJCJ 250 CKCO 100 CNRC 500 CNRC 500 CYO 100 KFVD 250	Calgary. Alta Calgary. Alta Calgary. Alta Calgary. Alta Calgary. Alta Ottawa, Ont Calgary. Alta Ottawa, Ont Mexico City, Mexico. *Culver City. Calif	
Dial Reading: 690 Kc.—534.5 Met. Dial Reading: 700 Kc.—428.3 Met. Dial Reading: 710 Kc.—423.3 Met. Dial Reading: 720 Kc.—416.4 Met.	CFAC 5000 CFCN 1800 CHCA 250 CKCO 100 CNRC 500 CNRO 500 CYO 100 KFVD 250 WLW 50000	Calgary. Alta. Calgary. Alta. Calgary. Alta. Calgary. Alta. Calgary. Alta. Ottawa, Ont. Calgary. Alta. Ottawa, Ont.  Mexico City, Mexico. *Culver City. Calif. Harrison, Ohio.	
Dial Reading: 690 Kc.—534.5 Met. Dial Reading: 700 Kc.—428.3 Met. Dial Reading: 710 Kc.—423.3 Met. Dial Reading:	CFAC 5000 CFCN 1800 CHCA 25 CJCJ 25 CKCO 100 CNRC 500 CNRO 500 CYO 100 KFVD 250 WLW 50000 WOR 5000	Calgary. Alta Calgary. Alta Calgary. Alta Calgary. Alta Calgary. Alta Calgary. Alta Ottawa, Ont  Calgary. Alta Ottawa, Ont  Mexico City, Mexico. *Culver City. Calif Harrison, Ohio  Newark, N. J  Chicago, Ill  Montreal, Que Vancouver, B. C Montreal, Que Vancouver, B. C	
Dial Reading: 690 Kc.—534.5 Met. Dial Reading: 700 Kc.—428.3 Met. Dial Reading: 710 Kc.—423.3 Met. Dial Reading: 720 Kc.—416.4 Met. Dial Reading: 730 Kc.—410.7 Met.	CFAC 5000 CFCN 1800 CHCA 250 CKCO 100 CNRC 500 CNRO 500 CYO 100 KFVD 250 WLW 50000 WGN 15000  CFCF 1650 CHLS 50 CKCD 150 CKCD 50	Calgary. Alta. Calgary. Alta. Calgary. Alta. Calgary. Alta. Calgary. Alta. Calgary. Alta. Ottawa, Ont.  Calgary. Alta. Ottawa, Ont.  Mexico City, Mexico. *Culver City. Calif. Harrison, Ohio.  Newark, N. J.  Chicago, Ill.  Montreal, Que. Vancouver, B. C. Montreal, Que. Vancouver, B. C.	
Dial Reading: 690 Kc.—534.5 Met. Dial Reading: 700 Kc.—428.3 Met. Dial Reading: 710 Kc.—423.3 Met. Dial Reading: 720 Kc.—416.4 Met. Dial Reading: 730 Kc.—410.7 Met. Dial Reading:	CFAC 5000 CFCN 1800 CHCA 25 CJCJ 25 CKCO 100 CNRC 500 CNRO 500 CYO 100 KFVD 250 WLW 50000 WGN 15000  CFCF 1650 CHYC 750 CKAC 1200 CKCD 50 CKMO 50 CKMO 50 CKMO 50 CKMO 50 CKMO 50 CKMMJ 10000 KMMJ 10000	Calgary. Alta. Calgary. Alta. Calgary. Alta. Calgary. Alta. Calgary. Alta. Calgary. Alta. Ottawa, Ont.  Calgary. Alta. Ottawa, Ont.  Mexico City, Mexico. *Culver City. Calif. Harrison, Ohio.  Newark, N. J.  Chicago, Ill.  Montreal, Que. Vancouver, B. C. Montreal, Que. Montreal, Que. Montreal, Que. Vancouver, B. C. Mexico City. Mexico. Mexico City. Mexico. Mexico City. Mexico.	Durham Life Ins. Co. (C. P. 10,000).  Calgary Herald W. W. Grant. Ltd Alberta Publishing Co., Ltd Radio Service and Repair Shop. Ltd Dr. G. M. Geldert (for Ottawa Radio. Association) Canadian National Railways Canadian National Railways W. J. and C. I. McWhinnie Crosley Radio Corp L. Bamberger and Co Chicago Tribune Canadian Marconi Co W. G. Hassel Northern Electric Co., Ltd La Presse Publishing Co., Ltd Vancouver Daily Province United Church of Canada Sprott-Shaw Radio A. Holstead and Wm. Hanlon The M. M. Johnson Co Cornell University Atlanta Journal Co.
Dial Reading: 690 Kc.—534.5 Met. Dial Reading: 700 Kc.—428.3 Met. Dial Reading: 710 Kc.—423.3 Met. Dial Reading: 720 Kc.—416.4 Met. Dial Reading: 730 Kc.—410.7 Met. Dial Reading: 740 Kc.—405.2 Met. Dial Reading: 750 Kc.—399.8 Met.	CFAC 5000 CFCN 1800 CHCA 250 CHCA 250 CHCA 250 CKCO 100 CNRC 500 CNRO 5000 WLW 50000 WGN 15000  CFCF 1650 CHYC 750 CKAC 1200 CKCD 50 CKMO 50 CKMO 50 CKMO 50 CKMO 50 CKMO 50 CKMO 50 CKMMJ 10000 WGN 10000  CYJ 2000 CYJ 500 CYJ 500 CYU 4000 CYJ 500 CYV 400	Calgary. Alta. Calgary. Alta. Calgary. Alta. Calgary. Alta. Calgary. Alta. Calgary. Alta. Ottawa, Ont.  Calgary. Alta. Ottawa, Ont.  Mexico City, Mexico. *Culver City. Calif. Harrison, Ohio  Newark, N. J.  Chicago, Ill.  Montreal, Que. Vancouver, B. C. Montreal, Que. Vancouver, B. C. Vancouver,	Durham Life Ins. Co. (C. P. 10,000).  Calgary Herald W. W. Grant. Ltd Alberta Publishing Co., Ltd Radio Service and Repair Shop. Ltd Dr. G. M. Geldert (for Ottawa Radio. Association) Canadian National Railways Canadian National Railways W. J. and C. I. McWhinnle Crosley Radio Corp L. Bamberger and Co Chicago Tribune Canadian Marconi Co W. G. Hassel Northern Electric Co., Ltd La Presse Publishing Co., Ltd Vancouver Daily Province United Church of Canada Sprott-Shaw Radio A. Holstead and Wm. Hanlon The M. M. Johnson Co Cornell University Atlanta Journal Co.

780 Kc.—384.4 Met. Dial Reading:	Call Letters CKY CNRW KELW KNRC WBSO WMC WPOR- WTAR WSEA	500 500 500 500 250 250	Winnipeg, Man. Winnipeg, Man. Burbank, Calif. Santa Monica, Calif. *Wellesley Hills, Mass. Memphis, Tenn.	Owner Manitoba Tele. System. Canadian National Railways. Earl L. White. Pickwick Broadcasting Corp. Babson's Statistical Org., Inc. Memphis Commercial Appeal. Reliance Electrical Co., Inc. Virginia Broadcasting Co., Inc.
790 Kc.—379.5 Met. Dial Reading:	KGO WGY	10000 50000	Oakland, Calif*Schenectady, N. Y	General Electric Co. General Electric Co.
800 Kc.—374.8 Met. Dial Reading:	CYH KTHS WBAP WSAI	100 10000 50000 5000	Mexico City, Mexico.  Hot Springs, Ark	_Carter Publishing Inc.
810 Kc.—370.2 Met. Dial Reading	WCCO WPCH	10000 500	Minneapolis, Minn*New York, N. Y	Washburn-Crosby Co. Concourse Radio Corp.
820 Kc.—365.6 Met. Dial Reading:	WHAS	5000	Louisville, Ky	_Courier Journal & Louisville Times.
830 Kc.—361.2 Met. Dial Reading:	HHK KOA WHOH	1000 12500 1000	Port au Prince, Haiti. Denver, Colo	
840 Kc.—356.9 Met. Dial Reading:	CFCA CHCT CKLC CKOW CNRT	500 1000 1000 500 500	Red Deer, Alta	Star Publishing and Printing Co. G. F. Tull and Ordeke, Ltd. Alberta Pacific Grain Co., Ltd. Nestle's Food Co. of Canada. Canadian National Railways.
850 Kc.—352.7 Met. Dial Reading:	KFQZ KWKH WWL	1000 5000 5000	*Hollywood, Calif Kennonwood, La New Orleans, La	_W. K. Henderson,
860 Kc.—348.6 Met. Dial Reading:	CZE WABC 20K 7SR	500 5000 100 500	Mexico City, Mexico. New York, N. Y Havana, Cuba. Elia, Cuba.	_Atlantic Broadcasting Co.
870 Kc.—344.6 Met. Dial Reading:	WENR WLS	50000 50000	Chicago, Ill	Great Lakes Rad. Broadcasting Co. Sears-Roebuck and Co.
880 Kc.—340.7 Met. Dial Reading:	CHCS CHML CHRC CKCI CKCV CKOC CNRQ KFKA KPOF KLX WCOC WGBI WQAN 6XW	$\begin{array}{c} 10 \\ 500 \\ 5 \\ 221 / 2 \\ 50 \\ 100 \\ 500 \\ 500 \\ 500 \\ 500 \\ 250 \\ 250 \\ 250 \\ 100 \\ \end{array}$	Hamilton, Ont	Maple Leaf Radio Co., LtdE. FontaineLe "Soleil." LtdG. A. VandryWentworth Ra. & Auto Sup. Co., LtdCanadian National RailwaysColorado State Teachers' CollegePillar of Fire, IncTribune Publishing CoCrystal Oil Co.
	CHML CHRC CKCI CKCV CKOC CNRQ KFKA KPOF KLX WCOC WGBI WQAN	500 5 221½ 50 100 50 500 500 500 250 250 100 50	Mt. Hamilton, Ont.  Quebec, Que. Quebec, Que. Quebec, P. Q Hamilton, Ont. Quebec, P. Q Greeley, Colo. Denver, Colo. Oakland, Calif. Columbus, Miss. Scranton, Pa. Tuincu, Cuba.  St. John, N. B.	Maple Leaf Radio Co., LtdE. FontaineLe "Soleil." LtdG. A. VandryWentworth Ra. & Auto Sup. Co., LtdCanadian National RailwaysColorado State Teachers' CollegePrillar of Fire, IncTribune Publishing CoCrystal Oil CoScranton Broadcasters, IncScranton Times.  C. A. Munro, LtdHenry Field Seed CoFirst Church of NazareneUniversity of South DakotaGeorgia School of TechnologyThe Outlet CoHolt Rowe Co.
Dial Reading:	CHML CHRC CKCI CKCV CKOC CNRQ KFKA KPOF KLX WCOC WGBI WQAN 6XW CFBO KFNF KGJF KGJF KGJF KGJAW WGST WJAR	500 500 500 500 500 500 500 500	Mt. Hamilton, Ont. Quebec, Que. Quebec, Que. Quebec, Que. Quebec, Que. Hamilton, Ont. Quebec, P. Q. Hamilton, Ont. Quebec, P. Q. Greeley, Colo. Denver, Colo. Oakland, Calif. Columbus, Miss. Scranton, Pa. Scranton, Pa. Tuincu, Cuba.  St. John, N. B. Shenandoah, Iowa Little Rock, Ark. Vermilion, S. D. Atlanta, Ga. Providence, R. I. Fairmont, W. Va. Macon, Ga.  Los Angeles, Calif. Ketchikan, Alaska Pocatello, Idaho Syraeuse, N. Y. Oklahoma City, Okla. *Stevens Point, Wis. Martinsville, N. Y.	Maple Leaf Radio Co., LtdE. FontaineLe "Soleil." LtdG. A. VandryWentworth Ra. & Auto Sup. Co., LtdCanadian National RailwaysColorado State Teachers' CollegePillar of Fire, IncTribune Publishing CoCrystal Oil CoScranton Broadcasters, IncScranton Times. C. A. Munro, LtdHenry Field Seed CoFirst Church of NazareneUniversity of South DakotaGeorgia School of TechnologyThe Outlet CoHolt Rowe CoMercer UniversityDon Lee. IncAlaska Radio and Service CoKSEI Broadcasting CorpThe Onondago CoWKY Radiophone CoWKY Radiophone CoWMAK Broadcasting System.
Dial Reading:  890 Kc.—336.9 Met. Dial Reading:	CHML CHRC CKCV CKCV CKCV CKCV CKFVA KFOF KLX WCOC WGBI WQAN KFNF KGJF KUSD WGST WJAR WMMX WMAZ KHJ KGBU WFBL WKY WLBL WMALA	500 500 500 500 500 500 500 500	Mt. Hamilton, Ont. Quebec, Que. Quebec, Que. Quebec, Que. Quebec, Que. Hamilton, Ont. Quebec, P. Q. Hamilton, Ont. Quebec, P. Q. Greeley, Colo. Denver, Colo. Oakland, Calif. Columbus, Miss. Scrauton, Pa. Scranton, Pa. Tuincu, Cuba.  St. John, N. B. Shenandoah, Iowa Little Rock, Ark. Vermilion, S. D. Atlanta, Ga. Providence, R. I. Fairmont, W. Va. Macon, Ga.  Los Angeles, Calif. Ketchikan, Alsaka Pocatello, Idaho Syracuse, N. Y. Oklahoma City, Okla. *Stevens Point, Wis. Martinsville, N. Y.  Clearwater, Fla. Saskatoon, Sask. London, Ont. Saskatoon, Sask. London, Ont. Saskatoon, Sask.	Maple Leaf Radio Co., LtdE. PontaineLe "Soleil." LtdG. A. VandryWentworth Ra. & Auto Sup. Co., LtdCanadian National RailwaysColorado State Teachers' CollegePillar of Fire, IncTribune Publishing CoCrystal Oil CoScranton Broadcasters, IncScranton Times. C. A. Munro, LtdHenry Field Seed CoFirst Church of NazareneUniversity of South DakotaGeorgia School of TechnologyThe Outlet CoMercer UniversityDon Lee. IncAlaska Radio and Service CoKSEI Broadcasting CorpThe Onondago CoWKY Radiophone CoWKY Radiophone CoWisconsin Department of MarketsWMAK Broadcasting SystemChamber of CommerceElectric ShopLondon Free Press Ptg. Co., Ltd.

930 Kc.—322.4 Met. Dial Reading:	Call       Letters     Power       CHNS     100       CHNS     500       CYQ     100       KFWI     500       KGBZ     500       KMA     500       WBRC     500       WDBJ     500       WIBG     50	Halifax, N. S. Halifax, N. S. Tampico, Mexico. San Francisco. Calif. Oakland. Calif. York. Nebr. Shenandoah. Iowa Birmingham, Ala.	Radio Entertainments, Inc. Oakland Educational Society. Federal Live Stock Remedy Co. May Seed and Nursery Co. Birmingham Broadcasting Co. Richardson-Wayland Electric Corp.
940 Kc.—319 Met. Dial Reading:	KFEL 250 KGU 500 KOIN 1000 WCSH 500 WFIW 1000	Denver, Colo. Honolulu, H. T. Portland, Oreg. Portland, Me. Hopkinsville, Ky.	KOIN, Inc. Congress Square Hotel Co.
950 Kc.—315.6 Met. Dial Reading:	KFWB 1000 KGHL 500 KLDS- KMBC 500 KPSN 1000 WHB 1000 WRC 500	Independence, MoPasadena, Calif	Warner Bros. Broadcasting Corp. North Western Auto Supply Co. Midland Broadcasting Co. Pasadena Star-News Publishing Co. Sweeney Auto School Ca. Radio Corporation of America.
960 Kc. Dial Reading:	CFCY 100 CFRB 1000 CHCK 30 CHWC 15 CJBR 500 CKCK 500 CKGW 5000 CNRR 500 CYU 100	Charlottetown, P. E. I.  King, Ont.  Charlottetown, P. E. I.  Regina, Sask.  Regina, Sask.  Regina, Sask.  Bowmanville, Ont.	-Island Radio Co. -Stan. Radio Manufacturing Corp. -W. E. Burke. -R. H. Williams and Sons. Ltd. -Sask. Co-op. Wheat Producers. Ltd. -Leader Publishing Co., Ltd.
970 Kc.—309.1 Met. Dial Reading:	CZF 250 KJR 5000 WCFL 1000	Chiluohua. Mexico. Seattle, Wash. Chicago, III.	_North West Badio Service Co. _Chicago Federation of Labor.
980 Kc305.9 Met.	<b>KDKA</b> 50000	Pittsburgh, Pa	Westinghouse E. and M. Co.
990 Kc.—302.8 Met. Dial Reading:	WBZA 15000 WBZA 500	E. Springfield, Mass Boston, Mass	Westinghouse E. and M. Co. Westinghouse E. and M. Co.
1000 Kc.—299.8 Met. Dial Reading:	CYA 500 KFKX- KGFH 250 WHO 5000 WOC 5000	Mexico City, Mexico.  *Glendale, Calif*  *Des Moines, Iowa*  *Davenport, Iowa*	
1010 Kc.—296.9 Met. Dial Reading:	CFLC 50 CJRM 500 CJRW 500 CKCR 50 CKSH 50 KGGF 500 KQW 500 WHN 250 WSIS 250 WNAD 500 WPAP- WQAO 250 WRNY 250	Fleecing, Sask. Brantford, Ont. St. Hyacinthe, P. Q. Picher, Okla. San Jose, Calif. New York, N. Y. Sarasota, Fla. Norman, Okla.	Jas. Richardson and Sons. Ltd. Jas. Richardson and Sons, Ltd. John Patterson. City of St. Hyacinthe. D. L. Connell. M. D. First Baptist Church. Marcus Loew Booking Co. Financial Journal, Inc.
1020 Kc.—293.9 Met. Dial Reading:	KYW 5000 WRAX 250 KYWA 5000	Chicago, III. Philadelphia, Pa. Chicago, III.	Hinois Publishing and Printing Co. Berachah Church, Inc. W, E. and M. Co.
1030 Kc.—291.1 Met. Dial Reading:	CJOR 50 CNRV 500	Sea Island, B. CVancouver, B. C	_G. C. Chandler. _Canadian National Railways.
1040 Kc.—288.3 Met. Dial Reading:	<b>KRLD</b> 5000 <b>WFAA</b> 5000 <b>WKAR</b> 500 <b>WKEN</b> 750	Dallas, Texas Dallas, Texas *East Lansing, Mich. Buffalo, N. Y.	_Dallas Morning News.
1050 Kc.—285.5 Met. Dial Reading:	KNX 5000 WFBM 25000	Hollywood, Calif* *Indianapolis, Ind*	Western Broadcasting Co. Indianapolis Light & Power Co.
1060 Kc.—282.8 Met. Dial Reading:	KWJJ 500 WBAL 5000 WJAG 500	Portland, OregBaltimore, MdNorfolk, Nebr	_Cons. Gas, Elec. Light & Power Co.
1070 Kc.—280.2 Met. Dial Reading:	WAAT 250 WCAZ 100 WDZ 100 WEAR 1000 WTAM 3500	*Carthage, Ill*Tuscola, Ill	James L. Bush.
1080 Kc.—277.6 Met. Dial Reading:	WBT 5000 WCBD 5000 WMBI 5000	Charlotte, N. CZion, Ill	C. C. Coddington (C. P. 10,000), Wilbur Glen Voliva, Moody Bible Institute

	Call			
	Call Letters	Power	Location	Owner
1090 Kc275.1 Met.	CYB KMOX	500 5000	Mexico City, Mexico. St. Louis, Mo	Noise of the Toric Tori
Dial Reading:	6JK	100	Tuineu, Cuba.	-voice of St. Louis, Inc.
1100 Kc.—272.6 Met.	KJBS	100		Julius Brunton and Sons Co.
Dial Reading:	WLWL WPG	5000 5000	Atlantic City, N. J.	-Missionary Society of St. Paul. -Municipality of Atlantic City.
1110 Kc.—270.1 Met.	WRVA	5000		Sioux Falls Broadcast'g Association.
Dial Reading:	KSOO	1000	*Sioux Falls, S. D	Larus and Bros. Co., Inc.
1120 Kc.—267.7 Met.	CFJC	15	Kamloops, B. C.	N. S. Dalgleish,
Dial Reading:	CFMC CFRC	$\frac{20}{500}$	Kingston, Ont.	_Monarch Battery Co.
Dial Reading.	CHGS	25	Summerside, P. E. I	-R. T. Holman, Ltd.
	CJOC CKPR	50 <b>50</b>	Lethbridge, Alta Midland, Ont	E. O. Swan.
	KFSG KMIC	$\frac{500}{250}$	Y1	Echo Park Evangelistic Assn. James R. Fouch.
	KRSC KUT	50 500	*Seattle, Wash	Radio Sales Corporation.
	WAAD	250	Milwaukee, Wisc.	-Marquette University.
	WBAO WCOA	$\frac{100}{500}$	*Seattle, Wash  Austin, Texas  Milwaukee, Wisc  *Decatur, Ill  Pensacola, Fla  Wilmington, Del  Milwaukee, Wis  Callege Station, Texas.	_James Milliken University. _City of Pensacola.
	WDEL WISN	$\frac{250}{250}$	Wilmington, Del.	-WDEL, Inc. Evening Wisconsin Co
	WTAW	500	College Station, Texas	Agri, and Mech. College of Texas.
1130 Kc.—265.3 Met.	CYF	100	Oaxaca, Mexico.	
Dial Reading:	KFKB KSL	5000 5000	*Milford, Kans Salt Lake City, Utah	_Radio Service Corporation of Utah.
	wov	1000	*New York, N. Y	International Broadcasting Corp.
1140 Kc.—263.0 Met.	KVOO WAPI	1000 5000	Tulsa, Okla	-Southwestern Sales Corp. -Alabama Polytechnic Institute,
Dial Reading:	******	5500	, , , , , , , , , , , , , , , , , , , ,	
	KODM	=0	*Charlitan Calif	Is is Doffer
1150 Kc.—260.7 Met.	KGDM WHAM		*Stockton, Calif. Rochester, N. Y	E. F. Peffer,Stromberg-Carlson Telegraph Co.
Dial Reading:	6B Y	200	Cienfuegos, Cuba.	
1160 Kc.—258.5 Met.	WEAN	500	*Providence, R. I	The Shepard Co.
Dial Reading:	WOWO WWVA		Wheeling, W. Va	_Main Auto Supply Co. _West Virginia Broadcasting Corp.
1170 K - 050 2 M - 1	KTNT	5000		
1170 Kc.—256.3 Met.	WCAU	5000	Muscatine, Iowa Philadelphia, Pa	_Norman Baker. _Universal Broadcasting Co.
Dial Reading:	WCAU	5000	Philadelphia, Pa	_Universal Broadcasting Co.
	WCAU KEX KOB		Portland, OregState College, N. M.	_Universal Broadcasting Co.  _Western Broadcasting Co.  _New Mexico College Agril, & Arts.
Dial Reading:	WCAU KEX KOB WGBS	5000 5000	Portland, OregState College, N. M	_Universal Broadcasting Co.  _Western Broadcasting CoCow Mexico College Agril. & ArtsCimbel Bros., Inc.
Dial Reading:  1180 Kc.—254.1 Met.  Dial Reading:	KEX KOB WGBS WJJD	5000 5000 10000 500 20000	Philadelphia, Pa  Portland, Oreg State College, N. M Astoria, L. I  *Mooseheart, Ill	_Universal Broadcasting Co.  _Western Broadcasting CoNew Mexico College Agril. & ArtsGimbel Bros., IncLoyal Order of Moose.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met.	KEX KOB WGBS WJJD KRLD WOAI	5000 5000 10000 500 20000 5000 5000	Philadelphia, Pa	_Universal Broadcasting Co.  _Western Broadcasting CoNew Mexico College Agril. & ArtsGimbel Bros., IncLoyal Order of MooseDallas Times-HeraldSouthern Equipment Co.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:	WCAU KEX KOB WGBS WJJD KRLD WOAI WRR	5000 5000 500 500 20000 5000 5000 5000	Philadelphia, Pa	_Universal Broadcasting Co.  _Western Broadcasting CoNew Mexico College Agril. & ArtsGimbel Bros., IncLoyal Order of MooseDallas Times-HeraldSouthern Equipment CoCity of Dallas.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	KEX KOB WGBS WJJD KRLD WOAI WRR	5000 5000 10000 500 20000 5000 5000 5000 100	Philadelphia, Pa	_Universal Broadcasting Co. Western Broadcasting CoNew Mexico College Agril. & ArtsGimbel Bros., IncLoyal Order of MooseDallas Times-HeraldSouthern Equipment CoCity of DallasWestern State College of ColoradoMarshall Electric Co.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:	KEX KOB WGBS WJJD KRLD WOAI WRR KFJB KFKZ	5000 5000 500 20000 5000 5000 5000 5000	Philadelphia, Pa	_Universal Broadcasting Co. Western Broadcasting CoNew Mexico College Agril. & ArtsGimbel Bros., IncLoyal Order of MooseDallas Times-HeraldSouthern Equipment CoCity of DallasWestern State College of ColoradoMarshall Electric CoNE Wissonvi State Teach, College
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	KEX KOB WGBS WJJD KRLD WOAI WRR KFJB KFKZ	5000 5000 5000 5000 20000 5000 5000 5000 5000 100 5000 100 1	Philadelphia, Pa	_Universal Broadcasting Co. Western Broadcasting CoNew Mexico College Agril. & ArtsGimbel Bros., IncLoyal Order of MooseDallas Times-HeraldSouthern Equipment CoCity of DallasWestern State College of ColoradoMarshall Electric CoNE Wissonvi State Teach, College
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD  KRLD WOAI WRR  KFHA KFJB KFKZ KFWC KFWF	5000 5000 5000 500 20000 5000 5000 5000 5000 100 100	Philadelphia, Pa	_Universal Broadcasting Co. Western Broadcasting CoNew Mexico College Agril. & ArtsGimbel Bros., IncLoyal Order of MooseDallas Times-HeraldSouthern Equipment CoCity of DallasWestern State College of ColoradoMarshall Electric CoN. E. Missouri State Teach. CollegeJames R. FonchSt. Louis Truth Conter, IncMandan Radio AssociationJaren Drug Co.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD  KRLD WOAI WRR  KFHA KFJB KFKZ KFWC KFWC KGDE KGDY	5000 5000 5000 5000 5000 5000 5000 5000 5000 100 1	Philadelphia, Pa	_Universal Broadcasting Co. Western Broadcasting CoNew Mexico College Agril. & ArtsGimbel Bros., IncLoyal Order of MooseDallas Times-HeraldSouthern Equipment CoCity of Dallas. Western State College of ColoradoMarshall Electric CoN. E. Missouri State Teach. CollegeJames R. FouchSt. Louis Truth Conter, IncMandan Radio AssociationJarren Drug CoJahlert Leesch
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD WRLD WOAI WRR  KFHA KFKZ KFWC KFWC KGDE KGDY KGCU KGDY KGEN	5000 5000 5000 5000 5000 5000 5000 5000 5000 100 1	Philadelphia, Pa	Universal Broadcasting Co. Western Broadcasting CoNew Mexico College Agril. & ArtsGimbel Bros., IncLoyal Order of MooseDallas Times-HeraldSouthern Equipment CoCity of DallasWestern State College of ColoradoMarshall Electric CoN. E. Missouri State Teach. CollegeJames R. FouchSt. Louis Truth Conter, IncMandan Radio AssociationJaren Drug CoJ. Albert LoeschBeehler Electric Equipment CoE. R. Irey and F. M. Bowles.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD  KRLD WOAI WRR  KFHA KFJB KFKZ KFWC KFWF KGDE KGDY KGDE KGDY KGEN KGEN	5000 5000 5000 5000 20000 5000 5000 5000 5000 100 100	Philadelphia, Pa	Universal Broadcasting Co. Western Broadcasting CoNew Mexico College Agril. & ArtsGimbel Bros., IncLoyal Order of MooseDallas Times-HeraldSouthern Equipment CoCity of DallasWestern State College of ColoradoMarshall Electric CoN. E. Missouri State Teach. CollegeJames R. FouchSt. Louis Truth Conter, IncMandan Radio AssociationJaren Drug CoJ. Albert LoeschBeehler Electric Equipment CoE. R. Irey and F. M. Bowles.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD  KRLD WOAI WRR  KFHA KFKZ KFWC KFCU KGDE KGDE KGDE KGEN KGEN KGEN KGEN	5000  5000  5000  5000  5000  5000  5000  5000  5000  100	Philadelphia, Pa	Universal Broadcasting Co. Western Broadcasting CoNew Mexico College Agril. & ArtsGimbel Bros., IncLoyal Order of MooseDallas Times-HeraldSouthern Equipment CoCity of DallasWestern State College of ColoradoMarshall Electric CoN. E. Missouri State Teach. CollegeJames R. FouchSt. Louis Truth Conter, IncMandan Radio AssociationJaren Drug CoJ. Albert LoeschBeehler Electric Equipment CoE. R. Irey and F. M. Bowles.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD WRLD WOAI WRR  KFHA KFFBZ KFWC KGGEW KGGEW KGEN KGEN KGEN KGEN KGEN KGFY KMJ KPPC	5000  5000  5000  5000  5000  5000  5000  5000  5000  100  100  100  50  100  100  50  100  100  50  100  100  50  100  100  100  100  100  100  100  100  100  100  100	Philadelphia, Pa	Universal Broadcasting Co. Western Broadcasting CoNew Mexico College Agril. & ArtsGimbel Bros., IncLoyal Order of MooseDallas Times-HeraldSouthern Equipment CoCity of DallasWestern State College of ColoradoMarshall Electric CoN. E. Missouri State Teach. CollegeJames R. FouchSt. Louis Truth Conter, IncMandan Radio AssociationJaren Drug CoJ. Albert LoeschBeehler Electric Equipment CoE. R. Irey and F. M. Bowles.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD WRAID WRA  KFHA KFHZ KFWC KFWC KGDE KGEW KGEN KGEN KGEN KGEN KGY KMJ KPPC	5000 5000 5000 5000 5000 5000 5000 500	Philadelphia, Pa	. Western Broadcasting Co.  . Western Broadcasting Co New Mexico College Agril. & Arts Gimbel Bros., Inc Loyal Order of Moose Loyal Order of Moose Dallas Times-Herald Southern Equipment Co City of Dallas Western State College of Colorado Marshall Electric Co N. E. Missouri State Teach. College . James R. Fouch St. Louis Truth Conter, Inc Mandan Radio Association Jaren Drug Co J. Albert Loesch Beehler Electric Equipment Co E. R. Irey and F. M. Bowles City of Ft. Morgan Kittson County Enterprise . St. Martins College The Fresno Bee Pasadena Presbyterian Church Santa Maria Valley R. R. Co L. Kessler Portable Wiraless Talegraph, Co.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD WRAID WRA  KFHA KFHZ KFWC KFWC KGDE KGEW KGEN KGEN KGEN KGEN KGY KMJ KPPC	5000 5000 5000 5000 5000 5000 5000 500	Philadelphia, Pa	. Western Broadcasting Co.  . Western Broadcasting Co New Mexico College Agril. & Arts Gimbel Bros., Inc Loyal Order of Moose Loyal Order of Moose Dallas Times-Herald Southern Equipment Co City of Dallas Western State College of Colorado Marshall Electric Co N. E. Missouri State Teach. College . James R. Fouch St. Louis Truth Conter, Inc Mandan Radio Association Jaren Drug Co J. Albert Loesch Beehler Electric Equipment Co E. R. Irey and F. M. Bowles City of Ft. Morgan Kittson County Enterprise . St. Martins College The Fresno Bee Pasadena Presbyterian Church Santa Maria Valley R. R. Co L. Kessler Portable Wiraless Talegraph, Co.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD WRAID WRA  KFHA KFHZ KFWC KFWC KGDE KGEW KGEK KGEN KGEN KGEN KGEN KGEN KGEN KGEN	5000 5000 5000 5000 5000 5000 5000 500	Philadelphia, Pa	. Western Broadcasting Co.  . Western Broadcasting Co New Mexico College Agril. & Arts Gimbel Bros., Inc Loyal Order of Moose Loyal Order of Moose Dallas Times-Herald Southern Equipment Co City of Dallas Western State College of Colorado Marshall Electric Co N. E. Missouri State Teach. College . James R. Fouch St. Louis Truth Conter, Inc Mandan Radio Association Jaren Drug Co J. Albert Loesch Beehler Electric Equipment Co E. R. Irey and F. M. Bowles City of Ft. Morgan Kittson County Enterprise . St. Martins College The Fresno Bee Pasadena Presbyterian Church Santa Maria Valley R. R. Co L. Kessler Portable Wiraless Talegraph, Co.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD  KRLD WOAI WRR  KFHA KFHZ KFWC KGDE KGDE KGDE KGDE KGDE KGEFN KGEW KGEFN KGEW KGEF KWJ KGEF KWJ KMJ KPPC KSMR KVOS WABI WABI WABI WBBW	5000 5000 5000 5000 5000 5000 5000 500	Philadelphia, Pa	. Western Broadcasting Co.  . Western Broadcasting Co New Mexico College Agril. & Arts Gimbel Bros., Inc Loyal Order of Moose Loyal Order of Moose Dallas Times-Herald Southern Equipment Co City of Dallas Western State College of Colorado Marshall Electric Co N. E. Missouri State Teach. College . James R. Fouch St. Louis Truth Center, Inc Mandan Radio Association Jaren Drug Co J. Albert Loesch Beehler Electric Equipment Co E. R. Irey and F. M. Bowles City of Ft. Morgan Kittson County Enterprise . St. Martins College The Fresno Bee Pasadena Presbyterian Church Santa Maria Valley R. R. Co L. Kessler Portable Wireless Telegraph Co First Universalist Church Coliseum Place Baptist Church Coliseum Place Baptist Church R. E. Martin Ruffner Junior High School. Washington Light Infantry
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD  KRLD WOAI WRR  KFHA KFKZ KFWF KGCU KGDE KGDY KGEK KGEW KGEK KGEW KGEW KGEW KGEW KGEW	5000 5000 5000 5000 5000 5000 5000 500	Philadelphia, Pa	. Western Broadcasting Co.  . Western Broadcasting Co New Mexico College Agril. & Arts Gimbel Bros., Inc Loyal Order of Moose Loyal Order of Moose Dallas Times-Herald Southern Equipment Co City of Dallas Western State College of Colorado Marshall Electric Co N. E. Missouri State Teach. College . James R. Fouch St. Louis Truth Center, Inc Mandan Radio Association Jaren Drug Co J. Albert Loesch Beehler Electric Equipment Co E. R. Irey and F. M. Bowles City of Ft. Morgan Kittson County Enterprise . St. Martins College The Fresno Bee Pasadena Presbyterian Church Santa Maria Valley R. R. Co L. Kessler Portable Wireless Telegraph Co First Universalist Church Coliseum Place Baptist Church Coliseum Place Baptist Church R. E. Martin Ruffner Junior High School. Washington Light Infantry
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD WRLD WRR  KFLB KFKZ KFWC KGCU KGDE KGFK KGEEW KGEEW KGEEW KGEEW KGKF KGPPC KSWG KWBEW WABZ WRBL WABZ WRBL WBBY WCAT	5000  5000  5000  5000  5000  5000  5000  5000  5000  100  100  100  50  100	Philadelphia, Pa	. Western Broadcasting Co.  . Western Broadcasting Co New Mexico College Agril. & Arts Gimbel Bros., Inc Loyal Order of Moose Loyal Order of Moose Dallas Times-Herald Southern Equipment Co City of Dallas Western State College of Colorado Marshall Electric Co N. E. Missouri State Teach. College . James R. Fouch St. Louis Truth Conter, Inc Mandan Radio Association Jaren Drug Co J. Albert Loesch Beehler Electric Equipment Co E. R. Irey and F. M. Bowles City of Ft. Morgan Kittson County Enterprise . St. Martins College The Fresno Bee Pasadena Presbyterian Church Santa Maria Valley R. R. Co L. Kessler Portable Wireless Telegraph Co First Universalist Church Coliseum Place Baptist Church R. E. Martin Ruffner Junior High School Washington Light Infantry C. L. Carrell South Dakota State School of Mines University of Vermont.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	KEX KOB WGBS WJJD KRLD WOAI WRR  KFHA KFHZ KFWC KGDE KGDY KGEK KGEW KGEY KGEY KMJ KPPC KSMR KVOS WABI WABI WABI WABI WABI WABI WABI WABI	5000 5000 5000 5000 5000 5000 5000 500	Philadelphia, Pa	Western Broadcasting Co.  Western Broadcasting Co New Mexico College Agril. & Arts Gimbel Bros., Inc Loyal Order of Moose Loyal Order of Moose Dallas Times-Herald Southern Equipment Co City of Dallas Western State College of Colorado Marshall Electric Co N. E. Missouri State Teach. College James R. Fouch St. Louis Truth Center, Inc Mandan Radio Association Jaren Drug Co J. Albert Loesch Beehler Electric Equipment Co E. R. Irey and F. M. Bowles City of Ft. Morgan Kittson County Enterprise St. Martins College The Fresno Bee Pasadena Presbyterian Church Sunta Maria Valley R. R. Co L. Kessler Portable Wireless Telegraph Co First Universalist Church Coliseum Place Baptist Church Ruffner Junior High School Washington Light Infantry C. L. Carrell South Dakota State School of Mines University of Vermont C. E. Whitmore. Matheson Radio Co. Inc.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD  KRLD WOAI WRR  KFHA KFKZ KFWF KGCU KGDE KGDY KGEKF KGCU KGDE KGDY KGEKF KGCU KGEWF KGEWF KGEWF KGEWF KGEWF KWJ KPPC KSMR KVOS WABI WABI WRBL WBBY WBBY WCAX WCLO WFBE	5000 5000 5000 5000 5000 5000 5000 500	Philadelphia, Pa	. Western Broadcasting Co.  . Western Broadcasting Co New Mexico College Agril. & Arts Gimbel Bros., Inc Loyal Order of Moose Dallas Times-Herald Southern Equipment Co City of Dallas Western State College of Colorado Marshall Electric Co, . Marshall Electric Co, . Marshall Electric Leguipment Co James R. Fouch St. Louis Truth Conter, Inc Mandan Radio Association Jaren Drug Co J. Albert Loesch Beehler Electric Equipment Co E. R. Irey and F. M. Bowles City of Ft. Morgan Kittson County Enterprise . St. Martins College The Fresno Bee Pasadena Presbyterian Church Santa Maria Valley R. R. Co L. Kessler Portable Wireless Telegraph Co First Universalist Church R. E. Martin Ruffner Junior High School Washington Light Infantry C. L. Carrell South Dakota State School of Mines University of Vermont C. E. Whitmore Matheson Radio Co. Inc First Baptist Church Parkview Hotel.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD KRLD WOAI WRR  KFHA KFKZ KFWF KGCU KGEV KGEV KGEV KGEV KGEW KGEW KGEW KGEW KGEW KGEW KGEW KGEW	5000 5000 5000 5000 5000 5000 5000 500	Philadelphia, Pa	. Western Broadcasting Co.  . Western Broadcasting Co New Mexico College Agril. & Arts Gimbel Bros., Inc Loyal Order of Moose Dallas Times-Herald Southern Equipment Co City of Dallas Western State College of Colorado Marshall Electric Co Marshall Electric Co Mandan Radio Association Jaren Drug Co J. Albert Loesch Beehler Electric Equipment Co E. R. Irey and F. M. Bowles City of Ft. Morgan Kittson County Enterprise . St. Martins College The Fresno Bee Pasadena Presbyterian Church Santa Maria Valley R. R. Co L. Kessler Portable Wireless Telegraph Co First Universalist Church Colliseum Place Baptist Church R. E. Martin Ruffner Junior High School Washington Light Infantry C. L. Carrell South Dakota State School of Mines University of Vermont C. E. Whitmore Matheson Radio Co Inc First Baptist Church Parkview Hotel St. John's Catholic Church.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD WRA  KFLB KFWC KFCU KGDEY KGDEY KGGEW KGKF KGKF KGKF KWG KGKF KWGE KWABI WABI WABI WABI WABI WABI WABI WABI	5000  5000  5000  5000  5000  5000  5000  5000  5000  5000  100  100  100  100  100  250  100  10	Philadelphia, Pa	. Western Broadcasting Co.  . Western Broadcasting Co New Mexico College Agril. & Arts Gimbel Bros., Inc Loyal Order of Moose Dallas Times-Herald Southern Equipment Co City of Dallas Western State College of Colorado Marshall Electric Co Marshall Electric Co Mandan Radio Association Jaren Drug Co J. Albert Loesch Beehler Electric Equipment Co E. R. Irey and F. M. Bowles City of Ft. Morgan Kittson County Enterprise . St. Martins College The Fresno Bee Pasadena Presbyterian Church Santa Maria Valley R. R. Co L. Kessler Portable Wireless Telegraph Co First Universalist Church Colliseum Place Baptist Church R. E. Martin Ruffner Junior High School Washington Light Infantry C. L. Carrell South Dakota State School of Mines University of Vermont C. E. Whitmore Matheson Radio Co Inc First Baptist Church Parkview Hotel St. John's Catholic Church.
Dial Reading:  1180 Kc.—254.1 Met. Dial Reading:  1190 Kc.—252.0 Met. Dial Reading:  1200 Kc.—249.9 Met.	WCAU  KEX KOB WGBS WJJD  KRLD WOAI WRR  ZFHA KFFEZ KFWCF KGDEY KGDEY KGDEY KGEW KGEFEN KGEW KGEW KGEFEN KGEW KGEW KGEW KGEW KGEW KGEW KGEW KGEW	5000 5000 5000 5000 5000 5000 5000 500	Philadelphia, Pa	. Western Broadcasting Co.  . Western Broadcasting Co New Mexico College Agril. & Arts Gimbel Bros., Inc Loyal Order of Moose Loyal Order of Moose Dallas Times-Herald Southern Equipment Co City of Dallas Western State College of Colorado Marshall Electric Co N. E. Missouri State Teach. College . James R. Fouch St. Louis Truth Center, Inc Mandan Radio Association Jaren Drug Co J. Albert Loesch Beehler Electric Equipment Co E. R. Irey and F. M. Bowles City of Ft. Morgan Kittson County Enterprise . St. Martins College The Fresno Bee Pasadena Presbyterian Church Santa Maria Valley R. R. Co L. Kessler Portable Wireless Telegraph Co First Universalist Church Coliseum Place Baptist Church Coliseum Place Baptist Church R. E. Martin Ruffner Junior High School Washington Light Infantry C. L. Carrell South Dakota State School of Mines University of Verniont C. E. Whitmore Matheson Radio Co. Inc First Baptist Church Parkview Hotel St. John's Catholic Church.

1200 Kc.—249.9 Met.  Dial Reading:	Call Letters Power WJBW 30 WKBE 100 WKJC 100 WLAP 30 WLBG 100 WMAY 100 WMBO 15 WNBW 5 WNBW 5 WNBX 10 WPRC 100 WQBJ 65 WRAF 100 WWAE 100	New Orleans, La. Webster, Mass. Lancaster, Pa. Okalona, Ky. Petersburg, Va. St. Louis, Mo. Washington, Pa. Carbondale, Pa. Springfield, Vt. Harrisburg, Pa. Clarksburg, W. Va. La Porte, ind.	Kirk Johnson CoAmerican Broadcasting Corp. of KyAmerican Broadcasting Corp. of KyRobert Allen GambleKingshighway Presbyterian ChurchJohn Brownlee SpriggsHome Cut Glass and China CoFirst Congregational Church CorpWilson Printing and Radio CoJohn RaikesThe Radio Club, IncRacine Broadcasting Corp.
1210 Kc.—247.8 Met. Dial Reading:	CFCO CFNB 50 CHWK 50 CHWK 50 CHWK 50 CHWK 50 CHWC 150 KFEY 100 KFEY 100 KFVS 100 KFVS 100 KGDP 100 KWEA 100 WCBS 100 WCOH 100 WCWW 100 WEBS 100 WCOH 100 WEBS 100 WEBS 100 WEBS 100 WEBS 100 WEBS 100 WGBB 100 WHBF 100 WHBT 100 WHBT 100 WHBU 100 WHBU 100 WHBU 100 WJBT 100 WJB	Cobalt, Ont. Preston, Ont. Devils Lake, N. D. Kellogg, Idaho Lincoln, Nebr. Cape Girardeau, Mo. Brookings, S. D. Pueblo, Colo. Seattle, Wash. Seattle, Wash. Shreveport, La. Wilkes-Barre, Pa. Springfield, Ill. Greenville, N. Y. Chicago, Ill. Cranston, R. I. Cambridge, Ohio. Harrisburg, Ill. Chicago, Ill. Preeport, Miss. Rock Island, Ill. Anderson, Ind. Madison, Wis. Bayshore, N. Y. Redbank, N. J. Lewisburg, Pa. Gadsden, Ala. Mansfield, Ohio. Ithaca, N. Y. Columbus, Ohio. Richmond, Va. Tampa, Fla. Jamestown, N. Y. Manitowoe, Wis. Pawtucket, R. I. Greenville, Miss. Gastonia, N. C. Chicago, Ill. Springfield, Tenn	J. S. Neill and SonsChilliwack Broadcasting Co., LtdR. L. McAdamWallace RussRadio Electric CoUnion High SchoolHoward A. ShumanHirsch Battery and Radio CoCutler's Broadcasting ServicePueblo Coun. Boy Scouts of AmerPacific Coast Biscuit CoArchie Taft and Louis WasmerWilliam B. AntonyJohn H. Stenger. JrH. L. Dowing and Chas. MossterWestchester Broadcasting CorpClinton R. WhiteD. W. Flint & Lincoln Studios, IncRoy W. WallerTate Radio CoEmil Denemark. IncHarry H. CarmanGulf Coast Music CoBoardsley Specialty CoCitizens' BankCap. Times-Strand Theatre StationRadiotel Manufacturing Co. IncRobert S. JohnsonBucknell UniversityElectric Consumer CoMansfield Broadcasting AssnLutheran Association of IthacaW. E. HoskittHavens and Martin, IncF. J. ReynoldsA. E. NewtonMikadow TheatreFrank Crook, Inc.
1220 Kc.—245.6 Met. Dial Reading:	KFKU 1000 WCAD 500 WCAE 500 WREN 1000	Lawrence, Kans*Canton. N. Y Pittsburgh, Pa Lawrence, Kans	_St. Lawrence UniversityKaufman and Baer Co.
1230 Kc.—243.8 Met. Dial Reading.	KFIO 100 KFQD 100 KYA 1000 WBIS- WGL 500 WNAC 500 WPSC 500 WSBT 500	*Spokane, Wash	North Central High SchoolAnchorage Radio ClubPacific Broadcasting CorpAllen Wayne CoThe Shepard StoresPennsylvania State College.
1240 Kc.—241.8 Met. Dial Reading:	KTAT 10000 WGHP 750 WIOD 1000 WJAD 1000 WQAM 750 WRBC 500	Waco, Texas Miami, Fla.	Texas Air Transport B'cast Co. George H. Phelps, Inc. Isle of Dreams Broadcasting Co. Frank P. Jackson. Electric Equipment Co. Immanuel Lutheran Church.
1250 Kc239.9 Met. Dial Reading:	KEJK     500       KFAU     1000       KFMX     1000       KFOX     1000       KXL     500       WAAM     250       WGCP     500       WGMS-WLB     1000       WODA     1000       WRHM     1000	Northfield, Minn. Long Beach, Calif Portland, Oreg Newark, N. J Northfield, Minn Newark, N. J Minneapolis, Minn Paterson, N. J	Ind. School District of Boise CityCarleton CollegeNichols and Warinner, IncKXL Broadcasters, IncWAAM, IncSt. Oldr CollegeMay Radio Broadcasting CorpUniversity of Minnesota.

	Call			
	Letters	Power		Owner
1260 Kc.—238.0 Met.	KOIL KRGV	1000 500	Council Bluffs, Iowa Harlingen, Texas	Mona Motor Oil Co.
Dial Reading:	KWWG	500	Brownsville, Texas	Chamber of Commerce.
	WJAX WLBW	1000 500	Jacksonville, Fla. Oil City, Pa.	City of Jacksonville.
1270 Kc.—236.1 Met.	KOL	1000	Seattle, Wash.	
	KFUM	1000	Colorado Springs, Colo	W. D. Corley.
Dial Reading:	KGCA <b>KTW</b>	50 1 <b>0</b> 00	*Decorah, Iowa Seattle, Wash.	
	$\frac{\text{KWLC}}{\text{WASH}}$	$\frac{50}{250}$	*Decorah, IowaGrand Rapids, Mich	Luther College,
	WDSU	1000	New Orleans, La.	Joseph H. Uhalt.
	WFBR WOOD	$\frac{250}{500}$	Baltimore, Md. Grand Rapids, Mich.	Baltimore Radio Show. Walter R. Stiles, Inc.
1280 Kc.—234.2 Met.	WCAM	500	Camden N I	City of Camden
Dial Reading:	WCAP WDAY	500 1000	Asbury Park, N. J Fargo, N. D	Radio Industries Broadcasting Co.
Dial Reading .	WDOD	1000	Chattanooga, Tenn.	Chattanooga Radio Co. Inc.
	WEBC WOAX	1000 500	Superior, Wis.	Head of the Lakes Broadcasting Co. Franklyn J. Wolff.
	WRR	500	Dallas Texas	City of Dallas.
1290 Kc.—234.4 Met.	KDYL	1000 500	Salt Lake City, Utah	Intermountain Broadcasting Corp.
Dial Reading:	KFUL KLCN	50	Galveston, Texas	Daily Courier News.
	KTSA WJAS	1000 1000	San Antonio, Texas	Lone Star B'casting Co.
	WNBZ	10	*Saranac Lake, N. Y	Pittsburgh Radio Supply House. Smith and Mace.
1300 Kc.—230.6 Met.	KFH KFJR	1000 500	Wichita, Kans.	Hotel Lassen.
Dial Reading:	KGEF	1000	Portland, Oreg.  Los Angeles, Calif.	Trinity Methodist Church.
	KTBI KTBR	1000 500	Los Angeles, Calif Portland, Oreg	Bible Institute of Los Angeles.
	WBBR WEVD	1000	Rossville, N. Y.	Peoples Pulpit Association.
	WHAP	500 <b>1000</b>	Woodhaven, N. Y New York City	Defenders of Truth Society Inc.
	WHAZ WIBW	500 <b>1000</b>	Troy, N. Y	Rensselaer Poly, Institute.
1310 Kc.—228.9 Met.	KFBK	100	Sacramento, Calif.	
	KFCB KFGQ	100 10	Phoenix. Ariz Boone, Iowa	Nielson Radio Supply Co.
Dial Reading:	KFJY	100	Ft. Dodge, Iowa	C. S. Tunwall.
	KFPL KFPM	15 15	Pt. Dodge, Iowa Dublin, Texas Greenville, Texas	C. C. Baxter, The New Furniture Co
	KFUP	100 30	Denver, Colo	Fifzsimimons General Hospital
	KFXF KFXR	100	Oklahoma City, Okla.	Pikes Peak Broadcasting Co. Exchange Avenue Baptist Church.
	KGEZ KGFI	$\frac{100}{100}$	San Angelo, Texas	Flathead Broadcasting Association. San Angelo Broadcasting Co. Bates Radio and Radio Co.
	KGGH KGHG	50 50	Cedar Grove, La.	Bates Radio and Radio Co.
	KRMD	50	McGeehee, Ark	Robert M. Doen
	KWCR WABY	$\frac{100}{50}$	Cedar Rapids, Iowa Philadelphia, Pa. Royal Oak, Mich. Detroit. Mich.	Harry F. Paar. John Magaldi Jr
	WAGM WBMH	50 100	Royal Oak, Mich.	Robert L. Miller,
	WBOW			
	WBRE	100 100	Wilkes-Barre, Pa	Louis G. Baltimore, WCLS Inc.
	WDAH WEBR	100 100	Wilkes Barre, Pa.  Joliet, Ill.  El Paso, Texas  Buffalo, N. Y.	Trinity Methodist Church.
	WEHS WFBG	100	Evanston, III. Altoona, Pa.	H. H. Howell. Victor C. Carlson.
	WFDF	$100 \\ 100$	Altoona, Pa Flint, Mich	William F. Gable Co. Frank D. Fallain
	WFKD WGAL	50 15	Frankford, Pa	Foulkrod Radio Eng. Co.
	WGH	100	Newport News, Va	Lancaster Elec. Supply and Cons. Co. Virginia Broadcasting Co., Inc.
	WHBP	$\frac{100}{100}$	Johnstown, Pa.	Johnstown Auto Co.
	WIAD WIBU	100 100	Philadelphia, Pa,	Goodson and Wilson, Inc. Howard R. Miller. The Electric Farm. J. A. Kautz (Kokomo Tribune). Laconia Radio Club. Sanders Bros., Inc. H. L. Ansley. Fred Schoenwolf. Parmil N. Nalson
	WJAK	50	Kokomo, Ind.	J. A. Kautz (Kokomo Tribune).
	$f WKAV \ WKBB$	$\begin{array}{c} 50 \\ 100 \end{array}$	Joliet. III	Laconia Radio Club. Sanders Bros. Inc.
	WKBC WKBI	10 50	Birmingham, Ala.	H. L. Ansley.
	WKBS WLBC			
	WLBO	50 100	Muncie, Ind. Galesburg, Ill.	Donald A. Burton. Fred A. Trebbe. Jr
	WMBL WMPC	100 -30	Lakeland, Fla.	Bentord's Radio Studio.
	WNAT	100	Philadelphia, Pa	First Methodist Protestant Church. Lennig Bros. Co.
	WNBH WNBJ	$\frac{250}{50}$	Nour Bodford Mass	Now Dollford Proplemating Co.
	WOBT WOL	15 100	Union City, Tenn.	Lansdale Baptist Church.  Tittsworth's Radio and Music Shop.  American Broadcasting Co.  Ave. Radio and Electric Shop.  Kent's Furniture Store.
	WRAW	100	Reading, Pa.	American Broadcasting Co. Ave. Radio and Electric Shop.
	WRBI WRBW	$\frac{20}{100}$	Tifton, Ga	Kent's Furniture Store:
	WRK WSAJ	100	Hamilton. Ohio	P. S. Pearce. S. W. Doron and John C. Slade.
	WSMD	100 100	Grove City, Pa	Grove City College. Tom F. Little,
	WTHS	100	Atlanta. Ga	Atlanta Technical High School.

				Old Change Telling Billion
1320 Kc.—227.1 Met. Dial Reading:	Call Letters KGHB KGHF KGIO KGIQ WADC WSMB	Power 250 250 250 250 250 1000 750	Location  Honolulu, Hawaii Pueblo, Colo. Idaho Falls, Idaho Twin Falls, Idaho Akron, Ohio New Orleans, La.	Curtis P. Ritchie, J. W. Duckworth, Jr. Stanley M. Soule.
1330 Kc.—225.4 Met. Dial Reading:	KSCJ WDRC WTAQ	1000 500 1000	Sioux City, Iowa New Haven. Conn	Doolittle Radio Corn
1340 Kc.—223.7 Met. Dial Reading:	KEPW KMO KVI WSPD	50 500 1000 500	*Sulphur Springs, Ark Tacoma, Wash Tacoma, Wash Toledo, Ohio	KMO. Inc. Puget Sound Radio Broadcast's Co.
1350 Kc.—222.1 Met. Dial Reading:	KWK WBNY WCDA WKBQ WMSG	1000 250 250 250 250 250	St. Louis, Mo New York, N. Y New York, N. Y New York, N. Y New York, N. Y	Greater St. Louis Broadcasting Corp. Baruchrome Corp. Italian Educational Broadcast'g Co. Standard Cahill Co Inc. Madison Sq. Garden Brdestg. Corp.
1360 Kc.—220.4 Met. Dial Reading:	KFBB KGB KGIR WBET WGES WJKS WMAF WQBC	250 250 250 500 500 500 500 300	Butte, Mont. Boston, Mass. Chicago, Ill.	Southwestern Broadcasting Co.
1370 Kc.—218.8 Met. Dial Reading:	KFBL KFEC KFJI KFJI KFJI KFJR KGAR KGGB KGGER KGGER KGGER KGGEL WFBJ WHBD WHBD WHBD WHBD WHBD WHBD WHBD WHBD	50 100 50 100 100 100 100 100 100 50 100 10	Memphis, Tenn.	Meir and Frank Co. George Kincaid. Henry Clay Allison. G. R. Clough. Perry Building Co. Citizens Publishing Co. Citizens Publishing Co. Citizens Publishing Co. Chiberto Radio Sales. Home Auto Co. C. Merwin Dobynes. Full Gospel Church, N. L. Cotter. Jay Peters. M. L. Cates. E. J. Roth. Jay Peters Inc. H. H. Hanseth. First Congregational Church. Wilson Duncan Broadcasting Co. Leon P. Tenney. Grace Covenant Presbyt'n Church. Hotel Chateau. W. J. Buttfield. St. Johns University. First Presbyterian Church. First Presbyterian Church. First Presbyterian Church.
1380 Kc.—217.3 Met. Dial Reading:	KQV KSO WCSO WHBL WKBH	500 1000 500 1000 1000	Pittsburgh, Pa	Berry Seed Co. Wittenberg College. Press Publishing Co.
1390 Kc.—215.7 Met. Dial Reading:	KOW KFPY KLRA KWSC KUOA WDGY WHDI WHK	500 500 1000 500 1000 500 500 1000	Spokane, Wash, Little Rock, Ark, Pullman, Wash, Fayetteville, Ark, Minneapolis, Minn.	Arkansus Broadcasting Co. State College of Washington. University of Arkansas. Dr. George W. Young. Dunwoody Industrial Institute.
1400 Kc.—214.2 Met. Dial Reading:	WBAA WBBC WCGU WCMA WKBF WLTH WSDA- WSGH	500 500 500 500 500 500 500	LaFayette, Ind. Brooklyn, N. Y. Sea Gate, Coney Island, N. Y. Culver, Ind. Indianapolis, Ind. Brooklyn N. Y. Brooklyn N. Y.	Culver Military Academy. Noble Butler Watson. Voice of Brooklyn, Inc.

	Call	T)	† anatian	0
1410 Kc.—212.6 Met.	Letters :	500 500	Rockford, Ill.	Owner  Swedish Evang, Mission Church.
Dial Reading:		1000 1000	Amarillo, Texas	Cish Badia Samios
triar Redding .	WBCM	500	Bay City, Mich.	-World's Star Knitting Co.
1420 Kc.—211.1 Met.	KFIF	50	Portland, Oreg.	Benson Polytechnic School. Fond du Lac Commonwith Reporter.
Dial Reading:	KFIZ K <b>FQ</b> U	$\frac{100}{100}$	Holy City Colif	W E Rikor
	KFQW KFXD	100 50	Seattle. Wash.  Jerome. Idaho. Flagstaff. Ariz. Abilene. Texas.	KFQW, Inc. Service Radio Co.
	KFXY KFYO	100 100	Flagstaff. Ariz.	_Mary M. Costigan.
	KGCN KGCX	50 10	Concordia, Kans.	LConcordia Broadcasting Co.
	KGFF	100	Vida, Mont	_Earl L. Hampshire.
	KGFJ KGFW	$\frac{100}{50}$	Los Angeles, CalifRavenna, Nebr	Otto F. Sothman.
	KGHD KGIW	50 100	Miccoula Mont	Elmara Noch Brandanating Com-
	KGKX KGTT	15 50	Sandpoint, Idaho	Trinidad Creamery CoC. E. TwissGlad Tidings Temple & Bible Inst*Red Oak Radio Corp*City of Seattle Harbor Dept.
	KICK KKP	100 15	Red Oak, Iowa	_*Red Oak Radio Corp.
	KOCW	100	CHICKASHA. OKR	Okianoma Conege for Women.
	KORE KTAP	$100 \\ 100$	San Antonio, Texas	Eugene Broadcasting Station. R. B. Bridge.
	KTUE KXRO	5 75	Houston, Texas	_Uhalt Electric Co.
	WAAD WEDH	25 30	Aberdeen, Wash Cincinnati, Ohio	Ohio Mechanics Institute.
	WHDL	10 10	Erie, Pa. Tupper Lake, N. Y. New York, N. Y. *Ottumwa, Iowa	.G. F. Bissel.
	WIAS	100	*Ottumwa, Iowa	Poling Electric Co.
		50 1000	St. Louis, Mo	_Missouri Broadcasting Corporation.
	$f WKBP \ WLBF$	$\begin{array}{c} 50 \\ 100 \end{array}$	Battle Creek, Mich Kansas City, Kan	Enquirer News Co. Everett L. Dillard
	WLBH	30 100	Farmingdale, N. Y Lexington. Mass.	Joseph J. Lombardi.
	WMBC WMBH	100 100	Detroit, Mich	.Michigan Broadcasting Co., Inc.
	WMRJ	10	Jamaica, N. Y.	Peter J. Prinz.
	$\begin{array}{c} \mathbf{WQBZ} \\ \mathbf{WSRO} \end{array}$	$\frac{60}{100}$	Middletown, Ohio	J. H. Thompson. _Harry W. Farhlander.
	${f WSSH} \\ {f WTBO}$	100 50	Boston, Mass. Cumberland, Md.	Letter J. Prinz. Letter J. Prinz. L.J. H. Thompson. Harry W. Farhlander. Letteront Temple Baptist Church. Cumberland Electric Co.
1430 Kc.—209.7 Met.	WBAK	500		
Dial Reading:	WBRL WCAH	500 250	Harrisburg. Pa	Booth Radio Laboratories.
z iii mining i	WGBC WICC	500 500	iMemphis, Tenn.	Commercial Radio Service Co. First Baptist Church.
	WMBS	<b>50</b> 0	Lemoyne, Pa	Bridgeport Broadcast'g Station, Inc. Mack's Battery Co.
	WNBR	500	Memphis, Tenn	
1440 Kc.—208.2 Met.	$rac{ ext{KLS}}{ ext{WABF}}$	$\frac{250}{250}$	Oakland, Calif Kingston, Pa	Warner Bros.
Dial Reading:	WABO- WCBA			
	WHEC	500 500	Rochester, N. Y.	- Hickson Electric Co.
	WMBD	500	Peoria Heights, Ill.	Peoria Heights Radio Laboratories.
	WNRC WOKO	500 500	Mt. Beacon, N. Y.	.B. B. Musselman Hickson Electric Co Clive B. Meredith Peoria Heights Radio Laboratories Wayne M. Nelson Harold E. Smith.
	$egin{array}{c} \mathbf{WSAN} \\ \mathbf{WTAD} \end{array}$	$\frac{250}{500}$	Anentown, Fa.	Call Pub. Co. _III. Stock Medicine Brdcstg. Corp.
1450 Kc.—206.8 Met.	KSBA	1000	Shreveport. La	
Dial Reading:	WBMS WFJC	250 500	Fort Lee, N. J.	_WBMS Broadcasting Corp.
Date Rending .	WIBS	250	Elizabeth, N. J	_W. J. Jones Broadcasting Inc. _New Jersey Broadcasting Corp.
	WJAY WKBO	$\frac{500}{250}$	Jersey City, N. J Newark, N. J	_Cleveland Radio Broadcasting CorpCamith Corp.
	WNJ WSAR	$\frac{250}{250}$	Newark, N. J	-Herman Lubinsky, -Doughty & Welch Electric Co., Inc.
	WTFI	500	Toccoa, Ga.	Doughty & Welch Electric Co., Inc. Toccoa Falls Institute.
1460 Kc.—205.4 Met.		0 <b>000</b>	Westcott, Minn.	National Battery Broadcasting Co.
Dial Reading:	Wast D	0000	Mt. Vernon, Va.	_Independent Publishing Co.
1470 Kc.—204.0 Met.		5000	Oklahoma City, Okla	National Radio Manufacturing Co.
Dial Reading:		5000 5000	Spokane, Wash	_Northeast Radio Service Co. _Churchill Evangelistic Assn., Inc.
		5000	Gainesville, Fla.	University of Florida.
1480 Kc.—202.6 Met.		5000 5000	Deerfield, Ill.	Radiophone Broadcasting Corp.
Dial Reading			Mt. Prospect, Ill	Lenun Kadio Corp. Peoples Pulpit Association.
1490 Kc.—201.6 Met.	KPWF 5		Westminster, Calif	Pacific West. B'casting Federation.
Dial Reading:		5000 5000	Nagnville, Tenn.	-Waldrum Drug Co. -Life and Casualty Insurance Co.

1500 Kc.—199.9 Met. Dial Reading:	Call Letters KFCR KFCR KGHI KGHI KGHI KGHI KGHI KGHI KGHI KGHI	Power 100 50 100' 100 100 100 100 100 100 15 100 100 100	Santa Barbara, Calif.  Edgewater, Colo.  San Antonio, Texas.  Little Rock, Ark.  Richmond, Texas.  Little Rock, Ark.  Richmond, Texas.  Prescott, Ariz.  Long View, Wash.  Seattle. Wash.  Seattle. Wash.  Portland. Oreg.  Santa Ana, Calif.  Detroit. Mich.  Willow Grove. Pa.  Long Beach. N. Y.  Philadelphia, Pa.  Montgomery, Ala.  Wilmington, Del.  Brookville. Ind.  Long Island City.  Chelsea. Mass.  Newport, R. I.  Memphis, Tenn.  Brooklyn, N. Y.	_Joe. B. McShaneBerean Bible ClassFt. Bend County School BoardEagle Publishing CoFrank WilburnFred W. Lovejoy and R. W. KerfootArthur C. DaileySchaeffer Radio CoPacific Broadcasting FederationAlbert B. Parfet CoAlbert A. WalkerArthur FaskeD. R. KienzleAlexander D. TrumDelaware B'casting CoKnox Battery and Electric CoK. L. AshbackerJohn N. BrahyWilliam S. PoteLeRoy Joseph BeebeSeventh Day Adventist ChurchPaul J. Gollhofer.
	WMBA	100	Newport, R. I.	LeRoy Joseph Beebe. Seventh Day Adventist Church.
	WMBQ WMES WNBF WNBQ WOO WPSW WRBJ WWRL	50 50 15 100 50 10	Brooklyn. N. Y Boston. Mass Binghamton, N. Y Rochester, N. Y Philadelphia Pa	Paul J. Gollhofer. Massachusetts Educational Society. Howitt-Wood Radio Co. Gordon P. Brown. John Wanamaker. Philadelphia School of Wireless Tel. Woodpuff Furniture Co.

#### AMERICAN SHORT WAVE BROADCASTING STATIONS

Call	Meters	Kilo- cycles	Power	Location	Owner
1XAA	200	1500	7.5		S. N. Read
1XAB	63.79	4700	250	Portland, Me	Henry P. Rines
2XAC	105.9	2833	50	New York, N. Y	Atlantic Broadcasting Corp.
2XAD	10 to 50	meters	40000	Schenectady, N. Y	General Electric Co.
2XAF	10 to 50	meters	25000	Schenectady, N. Y	General Electric Co.
2XAL	30.91	9700	500	New York	Experimenter Publishing Co.
2XBA	65.18	4600	50	Newark, N. J.	WAAM, Inc.
2XBH	54.02	5550	225	Brooklyn, N. Y	Chas. G. Unger
2XE	106	2498	500	New York	Atlantic Broadcasting Corp.
3XL	59.96	5000	30000	Boundbrook, N. J	Radio Corporation of America
4XA	125	2400	5000	Whitehaven, Tenn	WREC, Inc.
4XA	120	2500	5000	Whitehaven, Tenn	WREC, Inc.
4XE	Vari	able	2000	Winter Park, Fla	
6XAD	53.07	5650	100	Avalon, Calif	Lawrence Mott
6XAI	107.1	2801	100	Los Angeles, Calif	Los Angeles Radio Club
6XAI	66.04	4540	50	Los Angeles, Calif	Los Angeles Radio Club
6KAK	108.2	2773	50	Eureka, Calif	F. W. Morse
6XAN	105.9	2830	250	Los Angeles, Calif	Freeman Lang
6XAR	Vari	able	50	San Francisco	J. Brunton & Sons
6XBH	106.6	2814	50	Holy City, Calif	W. E. Riker
6XBX	105	2857	50	Venus, Calif	McWhinnie Electric Co.
7XAB	105.9	2833	100	Spokane, Wash	Symons Investment Co.
7XA0	53.54	5603	100	Portland, Oreg	Wilbur Jerman, Inc.
7XO	54.02	5553	100	Spokane, Wash	N. W. Radio Service Co.
8XAL	52.69	5690	<b>25</b> 0	Cincinnati, Ohio	Crosley Radio Corp.
8XAO	32	9370	75	Detroit, Mich	WJR, Inc.
8XF	66.04	4540	500	Cleveland, Ohio	Radio Air Service
8XJ	54.02	5553	50	Columbus, Ohio	Ohio State University
8XK	Varia	able		Pittsburgh	Westinghouse E, & M. Co.
8XP	Varia	able		Pittsburgh	Westinghouse E. & M. Co.
9XAB	105	2857	50	Omaha, Nebr	R. J. Rockwell
9XU	61.06	4910	50		Mona Motor Oil Co.
				2522-2	

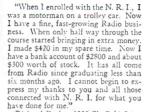
#### TONIGHT'S CHAIN PROGRAM (Continued from 2d Cover)

11:00-12:00	Radio-K	eith-Ornl	neum Hoi	ır (NBC)	P. M.				
KOA	WCAE	WFI	WKY	WSM	10:00-10:30				
KPRC KSD	WCSH WDAF	WGR WGY	WMC WOAI	WTAG WTAM	KOA KSD	WCSH WDAF	WFI WGN	WJAR WMC	WSAI WSB
KSL KSTP	WEAF WEBC	WHAS WHO	WRC WRVA	WTIC WTMJ	KVOO WBT	WEAF WEEI	WGR WGY	WOAI WOW	WTAG WTIC
KYW	WEEI	WJAR WJAX	WSB	WWJ	WCAE	WFAA	WHAS	WRC	WTMJ
WBT					10:00-10:30 KMBC	WAIU	s and Me WJBL	mories (C WKRC	WMAQ
7:30-8:00 T		ednesda		VRC)	KMOX KOIL	WCAO WCAU	WGHP WHK	WMAF WMAK	WNAC WOR
WCAE	WEEL	WGY	WTAG	WTIC	WABC	wcco	WICC	WMAL	wowo
WCSH WEAF	WGR	WJAR	WTAM	WWJ	WADC 10:30-11:00	WFAN Thirty N	WJAS Jiputa M	en (CBS)	
8:00-8:30 S					KMBC	WAIÚ	WJBL	WKRC	WMAQ
KSD WCAE	WDAF WŁAF	WGR WJAR	WOC	WTAG WTIC	KMOX KOIL	WCAO WCAU	WGHP WHK	WMAF WMAK	WNAC WOR
WCSH	WEEL	WLIT	WRC	WWJ	WABC WADC	WCCO WFAN	WICC WJAS	WMAL	wowo
8:30-9:00 Sy KDKA	/Ivania r WBZ	WGN	(NBC) WJR	WLW	WADC		Friday		
KWK WBAL	WBZA	WHAM	WJZ	WREN	7:30-8:00 D				
9:00-9:30 Ip	ana Tro	ubadours	(NBC)		KDKA KYW	WBT WBZ	WHAS WJR	WLW WMC	WSB WSM
KOA KPRC	WCSH WDAF	WGY WHAS	WOW	WTAG WTAM	WBAL	WBZA	WJZ	4	
KSD	WEAF	WJAR	WSAI	WTIC	8:00-9:00 C KOA	ities Serv WCAE	ice Orche WEEI	estra (NB) WLIT	C) WSAI
WBAP WBT	WEEI	WMC WOAI	WSB WSM	WTMJ WWJ	KSD	WDAF	WFAA	wow	WTAM
WCAE 9:00-9:30 Sr	WGR	thore (NI	3 <i>C</i> )		KVOO KYW	WEAF	WGY	WRC	WWJ
KDKA	WBAL	WBZA	WJR	WLW	8:00-8:30 Ir				
KWK KYW	WBZ	WHAM	WJZ	WREN	KDKA KYW	WBT WBZ	WHAM WHAS	WJZ WLW (	WREN WSB
9:30-10:30 F					WBAL 8:30-9:00 T	WBZA	WJR	WMC	WSM
KFI KGO	KSD KVOO	WEEI WFAA	WJAX WLIT	WSB WSM	KDKA	WBT	WHAS	WLW	WRHM
KGW	WBT WCAE	WGN WGR	WMC WOAI	WTAG WTAM	KWK KYW	WBZ WBZA	WJR WJZ	WMC WREN	WSB WSM
KHQ KOA	WCSH	WGY	wow	WTIC	WBAL	WHAM			
KOMO KPRC	WDAF WEAF	WHAS WJAR	WRC WSAI	WTMJ WWJ	9:00-9:30 A KSD	n Evenin WEAF	g in Pari	WRC	WTAG
10:00-11:00	Balkite l	Hour (NB	C)	******	WCAE WCSH	WEEI WFI	WJAR WJR	WSAI WTAM	WTIC WWJ
KDKA KWK	WBAL WBZ	WBZA WENR	WHAM WJR	WJZ WLW	WDAF	WGN			** *** 5
KYW 10:00-10:30	Kalatar	Radio Ho	ur (CRS)		9:00-10:00 \ KDKA	Wrigley b KOMO	Review (N WBT	BC) WHAS	WMC
KMBC	WAIU	WJBL	WKRC	WMAQ	KFI	KSL	WBZ	WJAX	WREN
KMOX KOIL	WCAO WCAU	WGHP WHK	WMAF WMAK	WNAC WOR	KGO KGW	KSTP KWK	WBZA WEBC	WJR WJZ	WRVA WSB
WABC	WCCO WFAN	WICC WJAS	WMAL	wowo	KHQ KOA	KYW WBAL	WHAM	WLM	WSM
WADC 10:30-11:00			estra (NE	BC)	9:00-10:00	True Stoi	ry Hour (	CBS)	
KFI KGW	KSD KSL	WEAF WEEI	WJAR WKY	WRC WSB	KMBC KMOX	WAIU WCAO	WJBL WGHP	WKRC WMAF	WMAQ WNAC
KHQ	KSTP	WFAA	WLIT	WSM	KOIL WABC	WCAU WCCO	WHK WICC	WMAK WMAL	WOR WOWO
KOA KOMO	KYW WBT	WGO WGR	WMC WOAI	WTAG WTAM	WADC	WFAN	WJAS		
KPO KPRC	WCAE WCSH	WGY WHAS	WOC WOW	WTIC WWJ	9:30-10:00 S KFD	Schraderi WDAF	town Bra: WGN	ss Band (. WJAR	NBC) WTAG
10:30-11:00	The Buc	caneers (	CBS)		WCAE WCSH	WEAF WEEI	WGR WGY	WLIP WOW	WTIC WWJ
KMBC KMOX	WAIU WCAO	WJBL WGHP	WKRC WMAF	WMAQ WNAC	9:30-10:00				*****
KOIL WABC	WCAU WCCO	WHK WICC	WMAK WMAL	WOR WOWO	KDKA KOA	KYW WBAL	WBZA WHAM	WJZ WLW	WOW WRC
WADC	WFAN	WJAS			KPRC	WBAP	WHAS	WMC	WREN
	<b>T</b>	hursday	•		KSTP KVOO	WBT WBZ	WHO WJR	WOAI WOC	WSB WTMJ
8:00-8:30 TI					10:00-11:00	National	Broadca	sting and	Concert
WCAE	WEAF WFI	WJAR WOW	WSAI WTAG	WTIC WTMJ	Bureau	ı Hour (N	NBC)	2	
WCSH WDAF	WGR WGY	WRC WRHM	WTAM	WWJ	KSD WCAE	WDAF WEAF	WGN WGR	WRC WSAI	WTIC WTMJ
8:00-8:30 Le	hn and	Fink Sere		NBC)	WCSH	WEEI	WLIT	WTAG	WWJ
KDKA KPRC	KWK KYW	WBZ WBZA	WHAM WJR	WLW WOAI	10:00-10:30 KDKA	WBAL	erg-Cariso WFAA	on Sextet	WREN
KVOO	WBAL	WFAA	WJZ	0.11	KPRC KVOO	WBT WBZ	WHAM WHAS	WLW WMC	WSB WSM
8:30-9:00 H	WEAF	WGN	WOW .	WSM	KWK	WBZA	WJR	WOAI	WTMJ
KVOO WCAE	WEEI WFAA	WGY WHAS	WRC WSAI	WTAM WWJ	10:30-11:00	United 9	Salon Ord	chestra (C	CBS)
WDAF	WFI	WMC	WSB	WWJ	KMBC	WAILI	WJBL	WKRC `	WMAQ
8:30-9:00 Cl KDKA	nampion WBAL	Sparkers WBZA	(NBC) WJR	WLW	KMOX KOIL	WCAO WCAU WCCO	WGHP WHK	WMAF WMAK	WNAC WOR
KWK	WBZ	WHAM	WJZ	WREN	WABC WADC	WCCO WFAN	WICC WJAS	WMAL	wowo
9:00-9:30 Se	iberling	Singers (	NBC)			Sa	aturday		
KFI KGO	KPRC KSD	WEAF WEEI	WHAS WJAR	WSB WSM	9:00-10:00		•	a (NBC)	
KGW	KVOO	WFAA	WOAI	WTAM	KOA KSD	WCSH WEAF	WFI WGR	WHAS	WTIC
KHQ KOA	WBT WCAE	WFI WGR	WOW WRC	WTIC WTMJ	WCAE	WEEI	WGY	WRC	WWJ
KOMO KPO	WCSH WDAF	WGY	WSAI	WWJ	10:00-11:00		Strike	Dance O	rchestra
9:30-10:00 N	Maxwell 1				Hour ( KFI	KPRC	WDAF	WHAS	WSAI
KDKA KOA	KYW WBAL	WDAF WHAM	WJR WJZ	WOW WRHM	KGO KGW	KSD KSL	WEAF WEEI	WJAR WJAX	WSB WTAM
KPRC KSD	WBAP WBT	WF'AS WHO	WLW WMC	WSB	KHQ	KVOO	WFAA	WMC	WTIC
KSTP	WBZ	WJAX	WOC	WSM WTMJ	KOA KOMO	WBT WCAE	WFI WGN	WOAI WOW	WTMJ WWJ
KVOO	WBZA				KPO	WCSH	WGR	WRC	



to date. My profit during the last two months amounts to \$700. I am making good and I have not finished my N. R. I. course yet. I am grateful for your training and co-operation to date and look forward to still bigger success when I graduate.'

Clarence Heffelfinger, Temple, Penna,



Richard Butler, 3535 Sheffield Si Philadelphia, P "In addition to my regular work in what I believe to be the largest and best equipped Radio Shop in the Southwest, I am now operating KGFI. I am proud of the fact that I installed and put of the fact that I mistance and put KGFI on the air without help of any-one except the N. R. I. I am averaging \$450 per month."

Frank M. Jones, 922 Guadalupe St San Angelo, Tex.



# EAD what Bi my men make in

\$350, \$450, \$500 a month. That's making real money. \$350, \$450, \$500 a month. That's making real money. What business other than Radio offers such opportunities after six to twelve months training? None that I know of. More proof—last year electricians, farmers, mechanics, clerks, railroad men, book-keepers, preachers, doctors, and men from 78 other trades and professions enrolled with me to prepare for the Radio field.

#### Big Growth Making Many Big Jobs

A WONDERFUL business, you will say, to make men trained for other fields, give them up for dio. Yes, but they had their eyes wide open. They know what you and I know—that big growth makes big jobs and many opportunities to earn big money. big joes and many opportunities to each high mines the Heffelfinger, Jones, and Butler couldn't make anything like this money before, although they probably worked just as hard—maybe harder. Trained men are needed for the big jobs the amazing growth of Radio is creating.

#### Salaries Up To \$250 a Week

WHY go along at \$25, \$30, \$35 a week when the good Radio jobs pay \$50 to \$250 a week? Cut loose from drudgery, small pay, no-future jobs. Get into a live-wire field that offers you a real chance. You don't need a high school or college education to become a Radio Expert. Many of my most successful graduates didn't finish the grades.

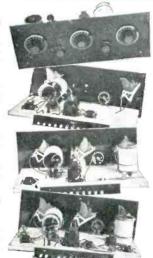
#### **Practical Experience With Course**

I GIVE you six big outfits of Radio parts. With them you can build and experiment with one hundred different circuits—learn the "how" and "why" of practically every type of set made. This makes learning easy, interesting, fascinating, your training complete. Nothing else equais my method.

#### TELEVISION also Included

YOUR knowledge of Radio will be right up to the ninute with Radio's progress and inventions when u take my training. Television, the new field for you take my training. Television, the new field for Radio experts, is included. Not one system for sending and receiving pictures by Radio, but all of them—Jenkin's, Cooley's, Bell's, Baird's, Belin's, Alexanderson's.

Television can easily and quickly become as large as the whole Radio industry is today. Broadcasting stations will soon need trained men, so will manufacturers for the designing and building of sending and receiving sets. It won't wait for you. Get ready quick.



WITH THEM YOU CAN BUILD 100 CIRCUITS. 4 YOU BUILD ARE SHOWN HERE. MY BOOK **EXPLAINS THIS** PRACTICAL FASCINATING WAY OF LEARNING RADIO

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### I Will Train You at Home in Your

Spare Time NEED to leave home one-half to one hour a day

of your spare time. In six to twelve months can be a trained Radio Expert, ready to step into

a new job with a real future.
\$10 to \$30 a Week While Learning

MANY of my students make \$10, \$20, \$30 a week extra while learning. I teach you to begin making money shortly after you enroll. G. W. Page, 1807 21st St., Nashville, Tenn., made \$935 in his spare time.

Money Back If Not Satisfied

KNOW the kind of training you need. I have put hundreds of men and young men ahead. I am so sure that I can satisfy you too that I will agree to refund your money if you are not satisfied when you complete my course,

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MY 64-page book explaining where the big jobs are and what you can make is FREE. Mail coupon. No obligation. Address: Dept. 9PW J. E. Smith, Pres., Nat'l Radio Institute, Washington, D. C.



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Name ..... Age...... Age.....