THE DECEMBER 1929

RADEX

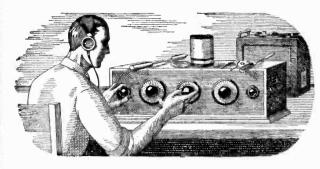
The Radio Fan's Own Magazine



That Schoolgirl's Complexion

To			
	A Verv	Merry	Christmas
			New Jear

From.



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

I Thought Radio Was a Plaything

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

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

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

If you'd told me a year ago that in twelve months' time I would be making \$100 and more every week in the Radio business — whew! I know I'd have thought you were crazy. But that's the sort of money I'm pulling down right now — and in the future I expect even more. Why, only today —

But I am getting ahead of my story. I was hard up a year ago because I was kidding myself, that's all—not because I had to be.

When broadcasting first became the rage, I first began dabbling with Radio. There's a fascination—something that grabs held of a fellow—about twirling a little knob and suddenly listening to a voice speaking a thousand miles away!

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

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

"You're kidding me," I said.
"I'm not," he replied. "Take a look at this ad."

He pointed to a page ad in a magazine I'd seen many times but just passed up. This time I read the ad carefully. It told of many hig opportunities for trained men to succeed in the great new Radio field. With the advertment was a coupon. I sent the coupon in, and in a few days received a handsome 64-page book, telling about the opportunities in the Radio field and how a man can prepare quickly and easily at home to take advantage of these opportunities. Well, it was a revelation to me. I read the book carefully, and when I finished it I made my decision.

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

Since that time I've gone right on up. They would have given me just as much help, too, if I had wanted to follow some other line of Radio besides building my

own retail business — such as broadcasting, manufacturing, experimenting, sea operating, or any one of the score of lines they prepare for you. And to think that until that day I sent for their eye-opening book, I'd been wailing, "I never had a chance."

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

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

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

Take another tip — No matter what your plans are, no matter how much or how little you know about Radio—clip the coupon below and look their free book over. It is filled with interesting facts, figures, and photos, and the information it will give you is worth a few minutes of anybody's time. You will place yourself under no obligation—the book is free, and is gladly sent to anyone who wants to know about Radio. Just address J. E. Smith, President, National Radio Institute, Dept. 9291. Washington, D. C.

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~
J. E. SMITH, President, National Radio Institute, Dept. 9291. Washington, D. C.	

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

																			•
Address															-	-	-	_	-
Town			-						-										-
~																			

# THE DECEMBER 1929





#### FRED CLAYTON BUTLER Editor and Publisher



IXTH	YEAR Contents	NUMBER	34
Front	ispiece—That Schoolgirl's Complexion Olive Palmer of Palm Olive		
	bles of B-Eliminators, by Enno R. HaanAnd How to Remedy Them		
Like	Mother Used to Make, by Cai Clement Billy Believed the Radio	3	
Catch	ting Criminals Red-Handed, by Ralph L. Peters Radio's New Task	3	
The I	Puzzle Page Another Tantalizing Cross-Calls	9	
"Dea	3.6 73.14		
Dea	r Mr. Editor—" Interesting Letters From Readers	5	
The I	Kentucky Hill-Billies Mountain Folk Who Broadcast		
	Question Mill, Conducted by Enno R. Haan Answers to Your Problems		
Radio	Carols, By Lee McCrae A Charming Christmas Custom and Cure of Microphonics	15	
	Another Article on Noise Elimination	<b>21</b>	
	lcasting Stations of the World  A List of the Principal Foreign Stations		
What	's On the Air Tonight? Hour-by-Hour Index to Chain Programs	24	
Table	of Air-Line Distances		
Broad	casting Map of U. S. A.	34	
A Con	nplete Index by Frequencies Cross-Indexed by Dial Numbers and Wave Le	engths 36	
A Con	nplete Index by States and Cities With Key to Location of Station on Broadcast	ting Map	
A Con	A Log for 750 Stations	56	

Subscription Price, \$1.75 per year (Ten Issues) Published Monthly excepting July and August.

## THE RADEX PRESS

1367 East 6th Street

Cleveland, Ohio

Copyright 1929 by F. C. Butler. Printed in U. S. A.

# Troubles of B-Eliminators

Simple Remedies for Their Cure By E. R. HAAN

(Continued from November issue)

T has been found that motorboating can often be remedied by shunting resistors and condensers across the output terminals of the eliminator. In some cases it will be found helpful to shunt a glow lamp, such as a UX874 or CX374 across the B-negative and the B-90 or intermediate terminals, which supply the radio-frequency tubes. This controls the voltage applied to the radio-frequency tubes and permits them to operate uniformly at all times. Proper control and adjustment of their plate voltage, and that of the detector, is necessary, as excessive plate voltage on these tubes may cause motorboating. The voltages applied by the eliminator should therefore be checked up occasionally, and it is advisable for the fan to provide himself with a high-resistance voltmeter of the type specially used for this purpose, as an ordinary voltmeter will not give correct output readings of eliminator voltages. With the aid of a high-resistance voltmeter, however, the fan can readily adjust the output voltages of his eliminator correctly according to the exact requirements of the various tubes.

An effective remedy for motorboating consists in connecting a radio-frequency choke coil in series with the detector plate and the first resistor in case of a resistance-coupled receiver, and between the detector plate and the P-terminal of the transformer in case of a transformer-coupled receiver. Substituting a 1 or 2-megohm resistor for the usual .1-megohm resistor in the plate circuit of the detector, in case of a resistance coupled receiver, will also help materially to reduce the trouble.

If a UX112 or CX112 power tube is used in the last stage of audio, the resistor in its grid circuit should be of .25-meg. value. In resistance-coupled receivers not having a three-stage amplifier-unit of the Daven or similar type, it will be found that the substitution of a well-

designed transformer or impedance unit will usually be quite effective in preventing the trouble. When making this change, however, care must be taken to wire the transformer or impedance unit up correctly, according to the markings on the terminals.

If the remedies just mentioned are not entirely effective, connect a 30 to 100-microhenry choke coil, which is the size used for radio-frequency purposes, and also a 4 to 8-mfd. condenser across the B-negative and the maximum B-positive terminals of the eliminator.

In case of a super-heterodyne or other large receiver, it will be found advantageous to make use of a separate B-battery to supply detector-plate voltage. Of course, this plan partly defeats the purpose of B-eliminators, but it may nevertheless be the best remedy for motor-boating. It must be taken into consideration that one remedy may work better than another, depending on the type of receiver, and the best cure for motor-boating in any particular set can best be found by trying out the various methods outlined in this section, one by one, until the trouble disappears.

If no improvement is noticed after trying all the methods already mentioned, then the trouble may be found in the receiver itself, which should be gone over thoroughly. Incorrect grid bias, or voltage on the grids of the various tubes. is a condition in the receiver that is especially conducive to motorboating. sure to have the correct C-negative voltage on the grid of the power tube. This voltage is given on the sheet of instructions accompanying the tube when it is purchased, or is printed on the carton in which the tube is sold. In general, it must be borne in mind that radio-frequency and audio-frequency tubes should have a negative bias, while the detector usually has a positive bias. It is a good idea to connect a variable resistor, such

(Continued on page 10)

# Like Mother Used to Make

By CAL CLEMENT

THE turning point in Billy Grant's young life came with the breaking of his best front tooth on a pebble that reposed in a piece of raisen pie he had got at Nonine's Inn. It came to Billy suddenly that for years and years he had been tired of cafes, hotels, hot dogs, chop suev and weak coffee and now. as he gazed at the broken tooth how

he vearned for a dear, little homecooking wife-one who would make a Paradise on earth for him. A Paradise filled with pies, doughnuts. biscuits, roasts and mashed potatoes like mother used to make.

But alas, when Billy checked over the list of girl friends he discovered that the paragon he was looking for was greatly in the minority.

Peg Arnold had too much money and she admitted that she did not know how to boil water. And she was proud of it.

Kitty Blake danced, swam, golfed, climbed peaks and wrote poetry. But she was dumb. She believed in Santa Claus.

Flo Caton had taken up the Secret of Soul Breath with the Great Mahutma and was living on peanuts, prunes and watercress. No good.

All the rest were crazy about Calories and Vitamines. Raving about pineapple juice, lamb chops, raw tomatoes and Lost Pounds. Billy fancied the slim model, but he shied at meals that an angle worm would have starved on.

Running down the list in the little red book Billy came to the name "Edie

Williams." There the finger rested. Edie was a shy, faun-like creature, a hang-over from the days of the bustle and eighteen-inch waists. Her hair was long, her feet flat and her form inadequate. But she could cook.

Billy had not called on Edie for six months, but he would do so this very night, propose and they could be mar-

ried next week.

Alas! When Billy arrived at the Williams', Edie's mother was having hysterics. She sobbed on Billy's neck that she had just received a wire from Edie saving that she had eloped with Miska, the Russian dancer. that she had shingled her hair and bought a make-up hox.

This bitter blow gave Billy the headache, so next morning he telephoned the office he would not be down.

After breakfast and the

"Scribbler," being lonesome, Billy turned to the radio for solace.

He dialed here and there for a while, listened to a jazz band, a talk on how to reduce and how to get rid of ants. Then he found station H.O.N. A caressing. girlish voice was on the air. Billy drew closer to the cabinet.

"Take the yok of three eggs, a heaping cupful of sugar, a cup of butter and of cream."

Billy's mouth watered.

"Pour this mixture into a baked shell, cover with meringue and brown. Dear listeners, this is my own, tested recipe." The voice was gone.

Billy was thrilled. He had to meet



Meet the end-men of the Dutch Masters Min-strels, Al Bernard and Paul Dumont (left and right respectively). Tuesdays at 9:30 p.m. over the WJZ chain.

that voice. He prayed that there was no

husband in the way.

Feverishly he scanned the radio news. "Cooking classes con-There it was. ducted by Cordelia Crane." Nothing should daunt him. Next Thursday at this hour.

Billy conveniently had the toothache on the Great Day and two o'clock found him in the Scribbler's lecture room. wedged between two fat women and being pounded on the back with a chicken bone in the hands of a friendly baby.

Suddenly Cordelia appeared.

pretty and blonde.

Billy heard nothing. He only saw-She smiled, Billy smiled. Cordelia. Cordelia succumbed in a month.

They bought a bungalow, an electric dish-washer, a self-starting vacuum cleaner and a heat control kitchen range.

Honolulu, honeymoon, Aloah, home. They landed Saturday afternoon, too late to arrange for meals at home over the week-end. The Beverly Hills was

Billy let Cordelia sleep late Monday morning. He crept from the bungalow on all fours and breakfasted at the He telephoned to Cordelia cafeteria. five times during the day about the first dinner at home. Cordelia was busy making "Otsa good fings for nice, big man."

When Billy arrived at six p.m. Cordelia met him at the door with the fervor befitting a bride. She did know how to kiss.

Billy sniffed, smelled nothing.

"Dinner is on the table, darling."

When Billy sat down he stared at what should have been the steaming roast. He said "dam" and looked at Cordelia. She shriveled to pint size and burst into sobs. Billy took another look at the cold boiled ham, potato salad and cream puffs.

Hysterics. Billy was cruel, selfish, a brute. Cordelia had tried, oh, so hard.

Sob. sob.

I'll—I'll—have—to—have—time—to learn," quavered Cordelia.

"Learn what?" Billy asked with some curiosity.

Then the ghastly secret. She had only

read recipes over the radio. She didn't know a rutabaga from a radish. She had meant to have roast beef but the meat was so red it frightened her. She was so fond of the little cows. It would have been like eating one's relatives.

The dream was over. Billy sighed and took a slice of ham.

Then Cordelia crept into his arms and cuddled up under his chin. When he felt her warm tears on his throat he forgot the cream puffs. He lifted Cordelia's lips to his own. She did know how to kiss.

## Station Changes

In order to lessen interference, the Radio Commission has made a number of changes this month, principally in Florida, California and the Chicago A number of shifts in the district. Florida district were also made in November which were to take effect on November 15th. Some of the stations changed at that time are again changed this month. It is probable that similar shifts will take place from time to time in order to remedy defects that are showing up in the reallocation of November 11th, 1928.

Among the major changes this month we are calling the attention of our readers to the following at the request of several who, like James S. Massey, of Philadelphia, find that the changes fool him and make him think his set is not performing properly.

CJSC, Toronto from 580 to 690.
WSUI, Iowa City, from 580 to 600.
WOQ, Kansas City, from 610 to 1300.
WDAE, Tampa, from 620 to 1240.
WDBO, Orlando, from 620 to 1120.
KFVD, Culver City, from 710 to 1000.
KFEL and KFXF, Denver, from 940 to 630.
KPSN, Pasadena, from 950 to 1360.
WCFL. Chicago, from 970 to 1280.
KPLA LOS Angeles, from 1000 to 1430. WCFL. Chicago, from 970 to 1280.
KPLA, Los Angeles, from 1000 to 1430.
KEJK, Los Angeles, from 1170 to 710.
WMT, Waterloo, from 1200 to 600.
WFLA, Clearwater, from 1240 to 620.
WSUN, St. Peterburg, from 1240 to 620.
WJAX, Jacksonville, from 1260 to 900.
WDAY, Fargo, from 1280 to 940.
WEBC, Duluth-Superior, from 1280 to 1290.
WIBW, Topeka, from 1300 to 580.
WHFC, Cicero, from 1310 to 1500.
WKBI, Chicago, from 1310 to 1500.
KKBI, Chicago, from 1310 to 1500.
KGB, San Diego, from 1360 to 1330. KGB, San Diego, from 1360 to 1330. KGER, Long Beach, from 1370 to 1360 WTOC, Savannah, from 1410 to 1250. KGFJ, Los Angeles, from 1420 to 1200. KXRO, Aberdeen, from 1420 to 1310.



ground is of

the utmost importance to clear and distant reception. The best possible ground is the cold water pipe, preferably at the point it enters the earth. Where such a ground is not available a substitute must be found. One of our readers has tried an interesting experiment which has proven most successful. We will let him tell the story. "I was reading in RADEX of some one who could not get a good ground," writes W. Gould, of Hudson, Mass., "and I would like to tell about a ground that I made.

"I dug a hole in the earth just outside the house and about four feet deep and I put in about one-third of a bushel of charcoal and a few handfuls of rock salt. Then I got a hundred feet of heavy copper wire and placed on top of the charcoal. I soldered on a lead-in wire carrying it to the set. Then I put on the coiled wire two-thirds of a bushel of charcoal and about a peck of salt and covered the whole thing with dirt, tramping it down hard. I have used that ground for over four years and it is the best ground that I ever had. Perhaps it will do someone some good to know about this."

The logic of Mr. Gould's unique idea is that the salt drew the moisture and the charcoal retained it. The coil of wire acted as a metal mass which drew the signals from the earth. The plan is worth trying where a more convenient ground is not available.

#### Lower-power DX

In a recent issue we published a letter from a reader who was having a hard time convincing his friends that he had received a 250-watt station, KFEL of Denver. Several readers have rushed to his defense. "This past Sunday morning," writes J. P. Neill, of San Antonio, Texas, "I was awakened by a heavy rain

once, I reached over and put on the old ear-phones and twirled the dial in the dark. Imagine my surprise when the first station I tuned in was KFEL. Reception was clear without any fading." Mr. Neill asks that we advise him the most economical wet-cell-battery set on the market. We receive many letters asking our advise as to the best set to buy. It is quite impossible for us to recommend any particular set. the standard, advertised sets are good. It is much as though we were asked what automobile is the best to buy. That, of course, depends upon just what one wants and what one wishes to pay. Naturally, the more one pays the more one gets.

"This spring I received KFEL almost every morning at about 6 a.m." says Ralph R. Turner, of Connersville, Ind. "On January 20th last, at 3:30 a.m. I brought in CKWX, of Vancouver, B. C., who were using 100 watts. This I verified." Mr. Turner also lists a number of other fifty and one hundred-watt stations he has received. He adds "With the help of RADEX I have logged 205 stations from the east to the west coast and from Winnipeg to Mexico City. May we never be without RADEX!"

#### More Low-Power Reception

Elmer E. Wilson, York, Penna., also has received KFEL and verified it. "More unusual yet," he writes, "I tuned in CFCY, Charlottetown, Prince Edward Island, whose power is listed at 100 watts. This reception was confirmed."

And A. D. Rice, of Detroit, writes regarding the reception of a fifty-watt station, WCLO, at that time located at Camp Lake, Wis.

Several readers have written to inquire about the reception of two Cuban stations which are not listed in RADEX

(nor in any other publication so far as we can find). One of these stations comes in on 730kcys. and this has been identified by Cyril P. Engelmeier, of Pittsburgh, Pa., as CMK, Havana, broadcasting from the Hotel Plaza. Mr. Engelmeier adds, "Since February 22, 1928, I have logged 321 stations."

"What is the greatest number of stations received by anyone and who is he?" asks L. J. Lipke, of Syracuse, N. Y. We have had peanut-pushing and flag-pole-sitting, and ice-cream-eating contests, but as yet no one has set forth the claim to being the world's champion DX-er. It would be interesting to know, but obviously it is not a claim that can very well be established. Mr. Lipke states that he has received 383 stations in 41 states and five provinces of Canada and two stations in Cuba. His best record is KGER, of Long Beach, California, a hundred-watter.

#### Ground vs. Aerial

Mr. Lipke asks, "Why is it that when I interchange the ground and aerial wires, I get twice as much volume as I do when I have them on right? When I have them transposed I get much more distance and hardly any static." We doubt if there is any understandable explanation of such an incident. course, it makes no difference whatever whether ground and antenna are attached as the binding-posts read or vice versa. The extremely faint antenna signal current merely flows through the set and into the ground, just as water flows through a pipe and obviously it makes no difference which way water flows The set manufacturer into a pipe. probably marks the binding post the way he believes the best results will be obtained, but if the owner finds upon experimenting that contrariwise brings better effects, then the wires may be transposed.

"I have made the wave-trap which was described in the September issue and it works pretty fair," writes Peter J. Moshinski, of St. Clair, Pa. "Also thanks to J. C. Weller, of Elyria, Ohio, for the idea of two condensers on the house-line. I tried it and it cut off a lot of noise."

#### Friendly Comment

"Last spring I was fortunate in purchasing, in Gadsden, Alabama, where I was working, the May issue of RADEX. That was my first and only copy of your publication that I have been able to purchase around here since that time." Thus writes H. A. Carpenter, of Jacksonville, Ala. "I am extremely interested in radio and anything that lends itself to improving radio reception is certainly appreciated and I find RADEX so complete in every detail that it is to be most applauded."

"Your little guide is fine—couldn't do without it. It helps a lot in DX. Stations can be identified much easier. The best part of it, it gets better every issue which makes it, as they say on the stage, 'a wow.' Good wishes for its continued success." This letter is from Martin J. Waskiewicz, of Plainfield, N. J.

When Fred L. Hinkley, of Springfield, Mass., renewed his subscription he added this postscript: "Your RADEX is the best index I have seen and I have had five other publications. Your listing and arrangement of stations has helped to identify 280 stations since November 11, 1928. The fact that you seem to keep pretty hot on the trail of changes in channel locations, transmitting power, etc., makes your monthly edition idea most valuable."

"After six years of DXing, I have found your magazine most helpful in identifying the stations," writes Ralph K. Ziegler, of Philadelphia. "I løgged KNX, which is 2400 miles away, entirely through the use of RADEX."

And from Bob Glick, Huntington, W. Va., "The night of October 15th, I stayed up to see how many stations I could log. With the help of RADEX I brought in 90 stations. This exceeded by far any number of stations I had ever logged in one night. The RADEX is a great help for DX fans."

## Boys!

Don't forget that offer in the November RADEX to send you free a fine Rugby Cowhide Football for only two yearly subscriptions to RADEX.

# Catching Criminals Red-Handed

Radio's New Task By RALPH L. PETERS

THIS is Station WCK. Attention Cruiser No. 10. Burglars have just broken into a grocery store near the corner of X and Y Streets."

(Three minutes later.) "Attention WCK. This is Cruiser No. 10. We caught one of the burglars. Two others jumped through the glass window and escaped. Have all cruisers look for two young men probably badly cut."

"Attention all cruisers. Pick up two boys probably cut and bleeding. Bring them in. This is Station WCK, Detroit

Police Department."

"Attention WCK. This is Cruiser No. 9. Just arrested two fellows whose faces and hands were badly cut. They could not explain and finally admitted being the pair who escaped from burglary."

* * *

Protecting millions of America's citzen's from the preying of criminals is radio's new task—a task the importance of which is receiving nation-wide attention.

Radio has become an efficient, timetested and proved police weapon—an ally whose silence and swiftness have enabled police work to achieve a pace heretofore believed impossible. Arrests have become a matter of seconds as one police department after another has added radio to its crime-fighting equipment.

Powerful and speedy police automobiles—equipped with receiving sets and loud speakers—are dispatched to the scenes of actual or reported crimes four to six seconds after the reports of those crimes reach police headquarters.

Scattered about the city on roving patrol duty, they are enabled by radio's warning flash to reach the designated spots within 15 to 90 seconds, in most instances, after receiving their orders from the police radio station.

Their swiftness has enabled their crews to trap burglars in scores of residences and stores; to halt hit-run drivers and return them to where they left hapless victims lying in the streets; to capture or kill bandits; to capture racketeers and gunmen in breath-taking time and to arrest slayers and other law-violators before they could flee from the scene of their crimes.

Evil-doers in Detroit, Chicago, Cleveland, Highland Park, Mich., Berkeley,

Cal., and other cities where radio has or is being put into use by the police, never know when a radioequipped police car is going to roar up to the scene and trap them in such a manner that escape of conviction becomes practically impossible so weighty is the evidence.

Roving police automobiles, termed scout cars, cruisers or squad cars, are not new



"A thief has just snatched a woman's purse-"

in police work. They have been in use for several years in most of the country's large cities. Their use was forced as the criminal began using the automobile as a means of getaway. The automobile enabled the police to speed up their work and to better cope with the criminal. But there were still drawbacks.

The crews of the patrol cars had no way of receiving reports of crimes in their territories until one of their number called into the precinct stations at regular intervals for orders. The car might be within a few blocks of a holdup, burglary or other crime but would have no way of knowing of it unless perchance the patrol car happened along at the spot the crime was being committed or shortly after the crook had fled.

Radio has changed all of this. The efficiency of the patrol cars has become a thing uncanny. One or more of the cars is ordered to the scene of the crime within a few seconds after the crime is reported and all the others receive the

flash simultaneously.

Crews of all the cars jot down the license numbers of a car fleeing the scene of a crime, the description of the men involved and other pertinent information. If the fleeing criminals come into the territory of the other radio-equipped cars, they will find the police waiting for them. Precinct boundary lines are forgotten when a chase is involved or when a reported crime is near the boundary line of two or more precincts.

While a patrol car is still heading toward the scene of a crime, the police dispatcher or radio operator may broadcast additional information that will enable the police car to change its route and head off the escaping criminals.

It frequently happens that while one of the cruisers or scout cars is at the scene of one crime, another crime will be reported a few blocks away. The crew of the cruiser or scout car is notified at once. A portion of the crew will be left at the scene of the first crime and the rest race off to the new address.

One evening the No. 10 cruiser was flashed a warning that two men were stripping a parked automobile of accessories and tires. Sixty seconds later the thieves were in custody.

Another time Cruiser No. 9 was told a prowler had forced his way into a house. Just fifty seconds later the home-owner was congratulating the police on the speedy capture of the burglar.

Again a thief snatched a woman shopper's purse. She hurriedly called the police. A cruiser arrived on the scene sixty seconds later, placed the woman in the car and sped down the street in the direction taken by the thief. There was an exclamation from the woman. She pointed to a man hurrying along the sidewalk. He was arrested, confessed and the woman's property recovered.

The Detroit Police Department has been the pioneer in the broadcasting of orders to radio-equipped police cars from a radio station devoted entirely to police work. More than 1,300 arrests have been made by the crews of the 35 cruisers and scout cars of the department. Most of these arrests have been made at an average time of slightly more than 60 seconds and the general average for all of them is approximately 90 seconds, the records of Station WCK, the police radio station, show.

The cruisers are seven-passenger touring cars, manned by a crew of four. The scout cars are light but fast touring cars manned by a crew of two. Each precinct has two or more radio-equipped cars

assigned to it.

The aerials of the cars are concealed in the tops of the cars. The receiving sets are enclosed in metal cabinets and locked in position, so that the crews can tune them to no other station. The crew has access only to the volume control. The loud speakers enable the crew to catch the orders clearly with their volume toned down.

All of the sets are built in the work-rooms of Station WCK. Quarter-hour tests insure the crew's knowing whether the sets are working. A "trouble shooting" car is ready at an instant's notice to speed to service or replace a set that has gone dead. The sets are turned on constantly while in the cars.

The police dispatcher, seated before the switchboard at Police Headquarters, plugs in on the radio station, located miles across the city, when he receives

(Continued on page 23)

# The Puzzle Page

THE answer to the puzzle in the November issue will not be published until January. We find that many readers are not able to get their solutions in by the time it is necessary for us to go to press with the first succeeding number. In future the correct solutions will be published in the second issue

There were thirty correct solutions to the October puzzle while a large number failed in one or more instances. Answers in the November cross-calls are still being received. One contestant calls to our attention the fact that No. 1 vertical may be either of two sta-We will therefore consider as correct the use

8 θ 10 11 13 16 17 18 19 20 21 22 23 25

and very much in the cross-calls. So in trying to make your magazine the greatest and best, I designed this puzzle, which I hope will be used. I am but fifteen years old and am a bug on radio. like to experiment on long and short wave receivers. I find RADEX the most convenient guide for my longwave reception." Here is the puzzle, the

correct solution of which will appear in February.

Unfortunately one of the stations used in the November puzzle was deleted in that issue. It will be found. however, in previous issues. Several puzzlers relied only on the November edition and hence failed on this station. In working out these puzzles, old copies of RADEX are very valuable.

of either of these two station calls.

The December puzzle which follows is much simpler than those in October and November. To each one solving this puzzle correctly we will mail an extra copy of the January RADEX which they may use as a gift to a friend.

A number of readers have sent in puzzles of their own devising for our use. Most of these were ingenious, but in several cases there were lines which could not be keyed. We are glad to receive original puzzles for each of which we will send one of those beautiful leatherette covers for RADEX. ideal puzzle will be symmetrical in form and every line will be capable of being keyed, that is practically every letter will be part of two calls, one reading horizontally and one vertically.

The puzzle this month was contributed by Mike Supitilov, of Kenosha, Wis., who writes: "I have been very much interested in your radio magazine

#### HORIZONTAL

- 1. In central Canada.
- 4. Located in I-14. Initials of station and owner are the same.
- Has been on 1160, 1350, 1420 and 1200 kcys.
   At the foot of the Cascades.
- 11. A hundred-watter in California.
- 12. In the great North-west. 13. At nearly 100 on most dials.
- 16. Daytime station on a cleared wave.
- 17. Formerly WLBV.
  19. "The Gateway to Wisconsin."
- 20. (Reversed) Last three letters of call are first three of city.
- 22. One of the fifty-thousand watters.
- 23. Owned by Jay Peters.
- 24. Home of the barn dance. 25. Its sister station adds the letter A.

#### VERTICAL

- 2. A thousand-watter sharing wave with four two-fifties.
- 3. (Reversed) On the Columbia chain.
- 4. On 249.9 meters.
- 5. Low-power from California. 7. "The Friendly Voice."
- 8. Johnson-Kennedy Radio Corp.
- 10. The thrill of radio.
- 11. Frequency measure.
- 14. City named for famous horticulturist.
- 15. Formerly in Kokomo.
- 16. Lots of people would like to get out of here.
- 17. Measured in meters. 18. On the banks of the Wabash.
- 19. Loyola University.
- 21. "Heart of America."

#### Troubles of B-Eliminators

(Continued from page 2)

as a Clarostat, in the grid circuits, so that the voltage can be correctly regulated. Too much grid voltage is likely to set up motorboating, and if a variable resistor is inserted in the line such excessive voltage can readily be reduced. Also be sure that the negative terminal of the C-battery connects to the grid terminal of the socket of the power tube.

#### Defective Condensers

Another cause of motorboating is a defective grid condenser, which slowly dissipates energy through its dielectric or insulation. To find out whether or not the grid condenser is defective, remove it from the set and short-circuit the two terminals together to discharge it. Then charge the condenser by connecting a C-battery to its terminals, being careful not to touch either the condenser terminals or the ends of the leads while doing this. A condenser should be able to hold such a charge for a few minutes. The cord tips of a headset are then touched to its terminals, care again being exercised not to touch the cord tips or the condenser terminals with the fingers, for this will discharge the condenser through the body, and then the test is incorrect. A sharp click in the phones at the moment the condenser terminals are touched shows that it is in good condition as the condenser holds its charge. If no click is heard or the click is very faint, the condenser is defective and should be replaced with a new one. Humidity conditions have considerable effect on open condensers, and in moist places the dielectric may absorb enough moisture to cause it to become leaky. The enclosed type of fixed condenser. such as is enclosed in a bakelite shell, is impervious to moisture. It is a good plan to substitute condensers of this kind for the open type, being sure that the new ones are of the same values as the discarded ones. Too high a value of grid resistance may contribute to the tendency to motorboat, and if this is the case, a resistor of lower value should be substituted.

Incorrect Wiring
Motorboating is sometimes caused by

a reversed condition of the primary winding of an audio-frequency transformer. This reversed condition may be attributed to incorrect internal connections between the winding and the terminals on the transformer shell. All that is necessary, in order to remedy this trouble, is to reverse the transformer connections on the outside, that is, the B-positive line will then connect to the P-terminal of the transformer, and the lead from the P-terminal on the preceding tube socket will connect to the B+ terminal on the transformer.

Motorboating can also be caused by a lack of matched impedance of the magnet winding of the loudspeaker and the plate of the last tube. Many loudspeaker manufacturers are trying to match the impedance of their speakers to that of the generally used power tubes, but power tubes have different characteristics and new ones are constantly coming out on the market, which makes it impossible to obtain perfect matching in this way. Besides, many fans have loudspeakers before they install power tubes in their sets, and it is therefore necessary for them to use other methods of overcoming motorboating caused in this way. There are several types of output transformers and output impedances which can be added to any In output transformers the receiver. plate output of the power tube is passed through the primary winding, and the loudspeaker terminals are connected to the secondary windings of the output device. An output impedance has the advantage of preventing possible coupling between the plate circuit of the last tube and that of the other tubes of the receiver through the medium of the output resistance devices of the eliminator.

Total Inoperation of B-Eliminator
In case no signals can be obtained from a receiver and there is no doubt that the receiver itself is in good condition, the trouble may be found in the eliminator. First see that the leads from the eliminator to the receiver are unbroken and are securely connected.

Examine the rectifier, for this may have become defective; if it is of the electrolytic type, the electrolyte may

(Continued on page 12)

# Kentucky Hill-Billies

ITH Kentucky just across the river, there's nothing synthetic about the "hill Billy" music offered to the audience of the Crosley radio station, WLW.

Among the chief protagonists of the native American balladry, who come up from the Kentucky mountains to perform, are the Aladdin Fiddlers, an orchestra composed of harmonica, jew's harp, guitar, banjo, and fiddle, with a supply of moun-

taineer voices thrown in for good measure.

Leader of the Aladdin Fiddlers is Charles MacCormick, better known to the WLW audience as "Harmonica Mac." MacCormick claims to possess 40 different harmonicas, one for each key in which he expects to play and an

extra supply for spaces.

"Harmonicas is pesky things," he says, "You can't always depend on the critters"

Except for the information that "Harmonica Mac" spends most of his days around the race track at Latonia, Ky., and that "Ma" MacCormick also likes to follow the horses, little is known about the Aladdin Fiddlers.

With a reticence common to the Kentuckians who come to the WLW studios, the members of the group never open their mouths except in songs.

Each one plays several musical instru-



ments so that they can offer an old-time fiddling contest, a full harmonica orchestra, or can play the "Pathetique Symphony" on combs and saws.

## Radio Watches

Radio signals which would automatically regulate watches in their owners' pockets are the objective of experiments being conducted here by the Elgin Watch Co.

Development of radio-controlled timepieces is still in the laboratory stage, but shows much promise, says Frank D. Urie, director of research. The Federal Radio Commission has granted a wavelength for experimental work.

The ultimate goal, Urie says, is commercial production of watches and clocks so devised that they will essentially be radio receivers capable of picking up signals sent by a central transmission station which would adjust them to the precise time.

Another possible method, he explained, would be for time signals to be picked up by a regular receiver with an attachment to which a watch could be connected for correcting purposes.

Intensive study of radio regulation of timepieces is being made in Russia and Germany, it is understood.

#### Troubles of B-Eliminators

(Continued from page 10)

have evaporated, or it may be too low for the proper operation of the device. The electrodes have perhaps become decomposed, which necessitates renewal. If the eliminator uses a filament-lighted tube rectifier, see whether or not it is lighting properly. It must be remembered that these tubes have a definite life and must be renewed sooner or later. Even the ionized-gas rectifying tubes, such as the Raytheon or the Q.R.S. tubes, which have an exceedingly long life, there being no filament to burn out, become exhausted eventually. Normally, they give off a bluish flash at the edge of the "cup" at the moment that the eliminator is turned on, and this flash can usually be noticed. Sometimes the tube may still be defective, even though it shows signs of life. It is perhaps the best practice for the fan to provide himself with two tubes, so that if he suspects that the one in use is defective, he can substitute the other one.

When purchasing a new rectifier, be sure to get one of the same type as the defective one. If you get one of a higher or lower capacity, the eliminator will not work properly, because the other parts are designed just for the amount of current produced by the original recti-For instance, many eliminators. especially the old models, were designed to operate on a type B Raytheon tube, which has an output of 60 milliamperes. When replacing one, some dealers will try to persuade the fan to use a type BH tube of the same make, telling him that it has a greater capacity than the old type and is more durable, etc. latter type, it is true, has a greater capacity, but if the eliminator is not designed for it, it will not give satisfactory results.

#### Open Circuits

After the rectifier has been carefully examined, listen for a slight transformer hum. This will tell whether or not the transformer is working. If no hum is noticeable, it is probable that the transformer winding is open-circuited or the transformer is not receiving current from the A.C. circuit. However, open-cir-

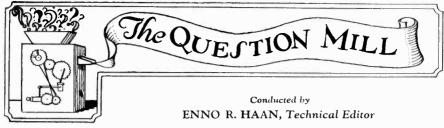
cuited transformers in eliminators are quite rare, as they are usually designed to stand up under heavy loads. To be certain that a transformer is defective or not, make a test for an open circuit. Some types of transformers used in eliminators have a separate winding to provide current for lighting the power tube of the receiver. In case the power tube does not light, and one is certain that the filament is not burned out, and also certain that the transformer is getting current from the lighting circuit. then the winding, which supplies the filament current for the power tube, may be open-circuited.

Lack of A.C. supply may often be the cause of trouble if a slight transformer hum is not noticeable, and no output voltage can be obtained from the eliminator. Test the light socket to determine whether or not the supply is being delivered to this point, for it is possible that a fuse of the lighting circuit has been burned out. If the fuse is in good condition, the light socket itself may be defective, even if it makes good contact with the plug occasionally. Sometimes the spring contact in the light socket does not make a good electrical connection with the end of the plug. In this case, turn off the current and pull the prong out so that it will make a better contact. If light can be obtained from the socket. there is perhaps a break in the cord connected to the eliminator, and such a break can usually be found at the plug end. If the cord is broken, it is an easy matter to repair it. Cut the wire at the break, bare both ends for about 2 inches. and splice them together, after which they are soldered to make them electrically and mechanically secure. tape is then wound over the splice to insulate and protect it.

#### Faulty Choke Coils

If a transformer hum is noticeable, but there is no output voltage across two or more of the eliminator terminals, which can be determined by the needle deflection of any 0 to 150-reading voltmeter held across the B-negative and the B-detector, B-intermediate and B-amplifier terminals successively, then the trouble

(Continued on page 16)



How far should I be able to receive stations on a five-tube tuned radio-frequency receiver?

Distance depends on several conditions: the location of the set, the quality and working order of the apparatus, and the skill of the operator. The average five or six-tube t.r.f. receiver should have a range of 2000 miles under good conditions. If you are located in a congested radio district, where several high-power stations may be broadcasting at the same time, it will be a difficult matter to tune in outside stations.

Would straight-line frequency condensers improve the selectivity of my tuned r.f. receiver?

Straight-line-frequency condensers will spread the stations out over the dial and will seem to make tuning easier on the lower part of the dial, but each station will cover a greater portion of the dial and will overlap the next station unless your set is of the type that can be made more or less selective by manipulation of a potentiometer controlling feed-back current. I suggest that you do not make the change as the slight advantage gained does not justify the cost.

Kindly give me information as to what tubes I could use to replace the following in my Sparton No. 69 A. C. receiver: Cardon rectifier tube No. 280, Cardon power tube No. 585 and Cardon A. C. tube No. 484. When a tube burns out I am at a loss to know what to buy to replace it as these numbers are peculiar to the set. I have tried to find the proper substitutes but have been unable to do so and your help would be appreciated.

Do not attempt to substitute tubes of any other make for the Cardon tubes which are used in the Sparton Equasonne Receiver No. 69. These tubes are especially designed for the set and the substitution of other tubes is only inviting trouble. It is quite an easy matter to get these tubes from mail-order houses in the larger cities. Undoubtedly you can get the Cardon tubes from them. If you desire you can also write to the manufacturers of your receiver and ask them where their nearest dealer is located, and he will be able to supply you.

My Majestic all-electric receiver stopped suddenly and upon investigation I found that none of the tubes would light, I have had them tested and found that they are in good condition. The socket where my radio connects should be all right as it lights a floor lamp connected to it. Can you advise me where the trouble could be located?

You have one of the following faults: defective plug where your radio connects to the electric socket, a loose or broken wire carrying a. c. current to the receiver, or a burned-out primary winding of the power transformer in the set.

I have an Atwater Kent Model 35 receiver and whenever a turn the rheostat knobs a grating sound is heard. How can I overcome this?

The trouble in the rheostat is due to natural wear of the resistance wire and can be easily overcome. Take a soft lead pencil and rub the graphite over the wire winding of the rheostat where the slider makes contact with it. This slight application of graphite lubricates the rheostat and in no way affects its electrical characteristics, which would be the case if you used oil or grease.

I have been experiencing trouble with my King radio receiver, Model 62, and would like to know if you can help me. My set stopped functioning suddenly and I discovered that the 1000-ohm resistor, located under the tube shelf directly behind the shielding cans, was burned out. I obtained a new one and as soon as I started the set, with the new resistor installed, it began to heat up and then burned out. Where is the trouble causing this?

Your trouble is undoubtedly caused by the breaking down of the by-pass condenser located on the inside of the shielding can on the right of the burned-out resistor. Simply remove the can cover and replace this condenser. The short-circuiting of this by-pass condenser puts a direct short of 90 volts potential on the resistor, which causes the overheating.

We have had a Zenith 27 electric receiver since 1928 and have had lots of satisfaction from it except for one thing: I simply must replace the UX 199 tubes every few weeks, which is quite expensive upkeep. This set is equipped with five UX 199 tubes fed in series from a power pack using a Raytheon type BH 80-milliampere tube. The B-supply also uses a BH tube. Can I do anything to overcome this trouble?

In localities where abnormal line voltage exists the life of the tubes in a receiver fed by alternating current is considerably shortened. It is particularly true in cases where the line voltage runs up to 140 volts. In your case the trouble can be overcome by mounting an ordinary porcelain light socket on the inside of your cabinet directly above the a.f. transformers. One of the parallel wires leading from the B-supply to the A-supply, should be cut and the socket connected to the two ends, which puts it in series. Considerable experimenting will be necessary to determine the exact size of lamp to use. Usually a 60-watt lamp will serve the purpose satisfactorily. A lamp of lower wattage will cut down the voltage applied to the tubes still more. The lamp will burn at a dull red glow and will not injure the set or cabinet in any way.

I have a Sparton Equasonne Model 930 receiver. At times the set has a low whistle that does not die out but continues for hours. Sometimes I don't notice it but at other times it is so bad that it ruins the program. I read somewhere that if the secondary leads of the speaker were reversed, the whistle would stop. I don't have the

slightest idea what the secondary leads are or where they are located. If you think that it is advisable to change them, please explain how to go about it. My aerial is about 100 feet long, including the lead-in wire. I have lots of static and plenty of volume for most stations, but can only reach a little over 1500 miles. Is this characteristic of the set? About the static, there is a factory about two blocks away from my location, in which 1300 electric motors are running so I suppose that my static is coming from them. Also my set is calibrated in kilocycles. On the lower end of the range, up to 800 kilocycles, the calibration on the set corresponds exactly to the station frequency, but above that it The frequency of KDKA is 980 kilocycles, but it comes in at a dial reading of 950. Kindly explain this.

Remove the r.f. tubes while the set is operating to determine whether or not the low whistle still persists. If so, you know that the trouble is caused in the a.f. stages. If the whistle stops when the r.f. tubes are removed, the trouble is evidently due to improperly balanced r.f. stages. Sometimes too high a plate voltage on the r.f. tubes causes such a whistle. Then again the grid-leak value may be incorrect. Your dial readings can be made to correspond more closely to the station frequency over the entire range by properly adjusting the antennacompensating condenser near the antenna and ground binding posts of the receiver. This adjustment should only be attempted by means of a bakelite screwdriver in order to prevent capacity effects of the tool. The "static" of which you speak is probably caused by the large number of electric motors in the During the winter nearby factory. months you may occasionally reach out farther than 1500 miles, although it should be borne in mind that most modern receivers are designed for good tone quality rather than for long-distant reception.

Would you please advise me if the new Rogers 45 push-pull tube will operate on a new Victor using ten tubes, including 245 tubes?

I have no material at hand concerning the Rogers 45 tube, which is of Canadian (Continued on page 17)

# Radio Carols

#### A Charming Christmas Innovation

A N entire neighborhood in a residential section of Pasadena, California, was awakened at dawn on Christmas morning by exquisite music. The old familiar carols were being sung by highly trained voices accompanied by harps, violins and cornets. Strangely, too, the strains seemed to come from all directions. It was as though an angel choir were floating above the city.

People lifted their heads to marvel at the sweetness of the singing, realizing that no band of wandering carollers could achieve such perfect harmony and lovely rendition, much less carry full orchestral to the broadcasting and half a dozen of them easily covered a block. And such a wondrous improvement over the music that might be furnished by any wellintentioned, but cold and footsore and untrained group of local carollers!

It must be but the beginning of a beautiful custom of our land, a land where there are 28,061,000 homes (according to official figures at the close of 1928) that have radio connection. Next Christmas should make one grand symphony of the angels' song over all America, even to the isles of the sea and the isolated spots.

How Many of These Famous Artists Do You Know.

Seated: Agnes Davis, Kathryn Meisle, Louise Homer, Kathleen Stewart.

Second row: Solon Alberti, Hazel Arth, Maria Kurenko, Nina Morgana, A. Atwaler Kent, Katharine Homer, Allen McQuhae, Alois Hvilla. At the microphone: Graham Mc Namee.

Third row: Reinald Werrenrath, Harry Spier, and Atwater Kent Quartette.



equipment. Doors and windows were heard to open up and down the block. All ears were attuned to listen as one after another of the glorious Christmas messages came over the still night air. It was thrilling!

Then, suddenly, the secret was out as the voice of a local radio announcer "signed off." They realized that a number of owners of fine radio sets had quietly arranged among themselves to have their loud speakers placed close to a front window all tuned in on a certain station that had promised an especially fine program of carols for the hour of dawn. Each instrument added its voice

## **Dead Spots**

Certain spots on the earth's surface are apparently impervious to radio signals and these are called "dead spots." About fifty of these have been charted in North America and they have usually been found accidentally so that it is probable that there are many more. One of the largest of these spots is located a little south of Hudson Bay in Canada; another is over the ocean off Atlantic City; while a third is in the vicinity of Camden, N. J. There are numerous dead spots in Mexico and the southwestern states.

#### Troubles of B-Eliminators

(Continued from page 12)

may be in a broken-down or open-circuited choke coil, although this is rarely the case. To find out which choke coil is at fault, get a pair of headphones and hook up a 22½-volt B-battery in series with the headphones. Before applying the free ends of the leads to the coils, remove the eliminator plug from the light Disconnect the choke coils if there is any possibility of a shunt circuit around them, for the coils should be tested separately and there should be no path for current over a shunt. After the coil to be tested has been disconnected, it is short-circuited to free it from any residual charge which it may hold. The free ends of the tester are touched to the ends of the coil, and a click should be heard in the phones. The absence of a click indicates an open circuit, and the coil must then be replaced with a new one of exactly the same design.

A punctured condenser may also prevent the eliminator from functioning. Broken-down condensers, which permit an unrestricted path for the current to flow directly through them, frequently cause eliminator troubles. To test a condenser, it is first removed from the eliminator. It is then discharged by holding a wire or a piece of metal across its terminals, for the charge it contains may cause a click in the phones, which will give a false impression that the condenser is short-circuited. If the condenser is in good condition, there will be little or no click the second time that its terminals are touched, but if it is short-circuited. a distinct click will be heard in the headphones each time the condenser terminals are touched, and again when the tips are removed. When making two or more tests on one condenser, be sure to hold the testing tips to the same terminals of the condenser each time. The absence of a click does not always prove that the condenser is in good condition, for there may be a slow leakage of charge through its insulation. To find such a leak remove the B-battery from the headphones and charge the condenser by holding the bared ends of the wires connected to a battery, to the terminals of

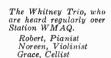
the condenser for a few seconds. careful not to touch either the condenser terminals or the bare ends of the wires, for this will dissipate the charge. After the condenser has been charged in this way, wait for a few moments and then touch the same tips of the headphones to the terminals of the condenser. If only a faint click is heard, or none at all, one may be reasonably certain that part of the charge has dissipated through the insulation. Faulty condensers should be replaced with new ones of the same capacity and make. If a condenser is entirely short-circuited it may be impossible to get any output voltages across two or more terminals, as there is then a complete path for the positive current emerging from the choke coils to return to the negative line, which is the path of least resistance. If, however, the condenser has a leaky insulation through which the charge gradually dissipates, it has lost its function to supply energy for an instantaneous overload, and in addition to this considerable fuzziness and distortion will often be evident. A short-circuited buffer condenser may cause a noticeable hum. At other times a crackling noise will be evident in the loudspeaker, resulting from the same cause. A new condenser is the remedy.

#### When Resistors Heat

Faulty resistors, which do not stand up under a heavy current and voltage. may cause crackling noises resembling static, or complete inoperation of the receiver. This is the case when they do not permit enough variation of the voltage. When the detector and radiofrequency resistors, and sometimes even the amplifier resistors, become hot, examine them to see whether part of their winding touches the metal case of the eliminator, or whether the resistor is of the correct capacity, a check which is necessary in case of homemade eliminators. In many eliminators employing a number of fixed resistors, in addition to the variable ones, it is possible that a variable resistor become short-circuited for some reason or other, and then a fixed resistor, in series with it, may be subjected to a greater pressure, with the result that it will become excessively

hot. Burned-out or open-circuited elements of resistors will of course cause total inoperation of the receiver. determine whether or not a resistor is open-circuited, make a headphone test. Touch one testing tip to the B-negative line and the other to the side of the resistor not connected to the B-positive line. If no click is heard, one can be certain that the winding is open-circuited although, perhaps, if another resistor, either fixed or variable, is connected in series to the one being tested, the trouble may be found in this one, which should be tested in the same way. There is one objection to the use of variable resistors in eliminators, namely, that it is difficult for the average fan to adjust them cor-

tube to indicate its similarity to the UX 245 tube. You can easily determine whether this tube can be used interchangeably with the 245-type tubes, by comparing the data of tube characteristics, which are usually printed on the carton, or on a separate sheet furnished with the tube, and the data on the UX 245 tube, which is as follows: Filament voltage, 2.5; filament current, 1.5 amperes; plate voltage, 180-250 volts; grid-bias voltage, 33-50 volts; plate current, 26-32 milliamperes. If you find that the filament voltage and plate voltage are the same in the case of the Rogers tube, it is quite possible that you can substitute the latter in any audio amplifier, whether push-pull or not.





rectly in order to get the proper plate voltages for the tubes. For this reason some manufacturers are making use of fixed resistors having a number of taps, these being designated as unit strips. A definite voltage can be obtained from each one of the taps.

## The Question Mill

(Continued from page 14)

manufacture. However, I find that these tubes are made by the Standard Radio Mfg. Corp. Ltd., of Toronto, and I have written to them for the tube data. Evidently the number 45 is given to the

Can I substitute a CX 381 rectifier tube for the CX 316B half-wave rectifier in my power supply?

Yes, you can substitute the CX 381 tube for the CX 316 B as the former will deliver about twice as much current as the latter without overloading. It would be a good idea to make this change if you have provided a power tube in the last audio stage to take the place of a 201A tube, as the power tube requires more cureent. If the set is overloaded, which may result in an a.c. hum, make the above change. However, if your receiver is in good condition and the old

rectifier tube still performs the change would be unnecessary.

Last year I built an "Infradyne" receiver but it apparently has not the "pep" it should have. When I use B-batteries instead of B-Eliminator, it works much better. Can you suggest what is urong with the eliminator or does it not produce sufficient current and voltage for the perfect operation of the set?

Have you correctly deducted where your trouble lies? The Infradyne, equipped with a UX 171 tube provided with 180 volts of plate potential, draws a B-current of 40 to 45 milliamperes. A B-Eliminator used with this set should be capable of furnishing at least 50 milliamperes, but preferably more, as it is advisable to have some reserve energy. Generally, it is best to furnish a B-supply which will provide at least 33 per cent more current than actually required by the receiver. If a UX 112 power tube were substituted for the 171 tube less plate current would be needed. The 112 takes about 30 milliamperes. Another indication of overload is hum. I suggest that you change the power tube, taking care to get the current plate and grid-bias or C-voltage on the new tube, or get an eliminator of greater capacity.

Is the 3-wire system for a radio antenna better than a single wire?

The advantage of three wires instead of one is so slight that it is not advisable. If you are located quite some distance from broadcasting stations, erect a single-wire antenna about 100 feet long, using stranded phosphor-bronze wire. Scrape off the enameled insulation, if it has any, and be sure to solder the lead-in wire to the aerial near one end. Use insulators and install with precautions against grounding.

I have built a small radio set of the nonregenerative type. It has a detector and one stage of a.f. I do not get enough volume to operate a pair of headphones on a station less than 50 miles away. What could be the trouble?

Assuming that the tubes and batteries are in good condition, which you should carefully check, the trouble may lie in a wrong size or defective grid leak or grid condenser, or an incorrect plate voltage,

especially on the detector tube. For a 201A detector use a 2-megohm grid leak.

I would like to add two stages of untuned r.f. before the first detector of my superheterodyne. Is this practical?

Experiments have been carried along these lines with too little success to warrant much popularity. The most common trouble seems to be a broadening of tuning, which makes the receiver extremely difficult to operate, especially in congested districts where several stations are operating simultaneously. This trouble is, however, not so great if the filter circuit is of the ultra-selective type. On the other hand, the addition of tuned r.f. stages ahead of the 1st detector has been found highly satisfactory by some experimenters. Selectivity is gained, distant reception possible, and a loop antenna can be used.

Kindly tell me how to build an underground antenna. I have heard that an antenna of this type has many advantages over a regular antenna, erected overhead.

It is claimed that an underground antenna picks up less atmospheric disturbance such as static than a regular aerial erected overhead. The length should be approximately 100 feet, and No. 14 weatherproof wire is used. Insulate one end thoroughly, coil the wire and bury it about one foot underground. The end not insulated is used as a lead-in. Some experimenters shield the lead-in from the point where it leaves the ground to the binding post of the receiver by slipping it into a lead tube, which is grounded. This type of antenna is also claimed to be non-directional.

Can I use a gas pipe for a ground connection? What size wire should I use for making a ground connection?

It is not advisable to use a gas pipe for a ground connection but a cold-water pipe is satisfactory. Gas pipes are often insulated at the meter. Besides, this method of grounding will not pass inspection of insurance companies. Use No. 14 rubber-covered wire for the ground lead, and provide a good ground clamp. Scrape all corrosion from the surface of the pipe before attaching the clamp.

How can I clean the prongs of the

tubes in my receiver, as this is said to help bring in better reception?

Good electrical contact between the tube tips and the socket prongs is essential. Take a piece of fine sandpaper or a nail file for cleaning off the ends of the tube tips, and a pencil or small wooden stick for getting into the sockets to clean the prongs. If you have sockets that have holes in the top for the insertion of the tube tips, it may be necessary to take the socket apart. When doing this be sure to disconnect the batteries. or the cord, which is connected to a nearby wall plug, in case your set is of the all-electric type.

I noticed your diagram of a wave trap in the September issue of RADEX and I would like to know if it can be successfully applied to a Stewart-Warner radio receiver No. 950, and what method you use in connecting it?

A wave trap of the kind described can be successfully used on the Stewart-Warner receivers, these being of the popular radio-frequency type. The best method of determining just where to connect a wave-trap to any particular receiver for best results, is to first cut it in the aerial line, in series with the set so that all the energy must pass through the wave trap before entering the set. The second method is to connect the wave trap across the aerial and ground lines, leaving both connected to the set. A third method is to disconnect the lead from the G or grid terminal of the detector-tube socket, bending the lead back slightly so that it will not make contact. Then run a wire from the G or grid terminal of the coil or r.f. transformer preceding the detector socket, to one terminal of the wave trap, and connect the second terminal of the wave trap to the G-terminal of the detectortube socket. After trying this method reconnect the loose wire to the G-terminal of the detector, leaving the other connections just made intact. three methods given above can be tried out to determine which one is most effective in your case.

Is a C-battery necessary with a resistance-coupled audio amplifier? C-voltages are required with the B-potential 90 and 135 valts?

A C-battery is advisable to conserve the current taken from the B-battery. but is not necessary of a B-eliminator is used. For 90 volts, provide a C-bias or 4½ volts, and for 135 volts, a C-bias of from 71/2 to 9 volt. In the case of power tubes it is always necessary to provide a C-battery supplying the correct potential for the operation of the You will find the amount of C-bias required on the tube carbon or sheet which accompanies it.

I have a 32-volt farm-lighting unit. CanI get filament current for my radio set from the battery of this unit? If so,

kindly tell me how to proceed.

Yes, it is a good idea to take your radio current from your farm-lighting unit battery. Of course, only three cells are used as the filament voltage required for the receiver is 5 volts. Run the negative filament lead to the negative side of one cell, and connect the positive lead to the positive terminal of the third cell above the one to which the negative lead is connected. It is well to use spring clips to make the connections as there will then be no need of loosening and tightening the lugs. By the word "above" in the previous sentence is meant the side toward the positive end of the entire battery, for as you will note, one extreme end is negative and the other is positive. The sixteen cells each give a pressure of approximately two volts, or a total of 32 volts. It is best to provide a doublepole, double-throw, knife switch in the lines to the radio set to permit disconnecting it from the battery while the unit is charging, for during a charge you will undoubtedly experience some interference from the unit. Do not use the same three cells for the A supply all the time, but change around so that the amount of drain will be equally distributed over the entire battery of the lighting unit.

We have purchased a new all-electric receiver and it works well with the exception that it becomes loud and soft at intervals without any apparent reason. What causes this and how can the trouble be overcome?

Your trouble is evidently voltage fluctuation of the house-lighting circuit. Although theoretically the voltage delivered by power companies is 110 volts, with a permissible variation of 5 per cent above and below this figure, actual tests have shown that the voltage in many cases varies between 90 and 130 volts, this being due to variations in load, improper regulation, poorly-designed feeders, etc. The resulting trouble in radio reception is exactly what you have experienced, namely, variation in volume. Besides this, the life of your tubes will be shortened if this condition is permitted to continue. Fortunately. there are on the market automatic voltage regulators, which are especially designed to provide a constant 110-volt current to the receiver regardless of line fluctuations between 90 and 130 volts. Such a regulator is an investment worth while and you will find this a practical solution of your trouble.

## Seven Stations to Censor Advertising

TANDARDS to govern broadcast advertising so that objectionable practices will be eliminated and to the end that radio as an advertising medium "will increasingly enjoy and deserve the confidence of the public," have been adopted by seven broadcasting stations in the Boston area, the Federal Radio Commission was informed October 19. These stations have subscribed to standards of practice and a plan of operation based on cooperation with the Better Business Bureau of Boston.

The stations subscribing to the standards are WBZA, WEEI, WNAC and WSSH, Boston, WHDH, Gloucester, and WLEX, Lexington.

The standards adopted, as transmitted to the Commission, are as follows:

"To the end that radio broadcast advertising will increasingly enjoy and deserve the confidence of the public, the radio stations have subscribed to the following standards:

"1. To prohibit broadcast advertising believed to be or which might be detrimental to the public interest, or injurious to radio broadcasting in general, or to any other accepted form of advertising, and to reject advertising by concerns whose other forms of advertising and practices may be objectionable or injurious to public interest.

"2. To prohibit broadcast advertising known to be untrue, deceptive, misleading, fraudulent, or grossly exaggerated, or which might, on reasonable investigation be ascertained to be untrue, deceptive, misleading, fraudulent, or grossly exaggerated.

Censorship Provided

"3. To take care to prevent the broadcasting of statements derogatory to other stations, to individuals, or to competing products or services, except where the law specifically provides that the station has no right of censorship.

"4. To make reasonable investigation concerning the financial responsibility and character of broadcast clients, so that no dishonest, fraudulent, or dangerous person, firm, organization or advertising may gain access to the radio public.

"5. To prohibit the advertising of products or services for treatment of disease or illness which are injurious to

health.

"6. To cooperate with the Better Business Bureau in all lawful manner in its purpose as outlined in the articles of incorporation, i. e., 'the furthering and promoting of honesty, truthfulness, and dependability in advertising, merchandising, and in all business methods and practices and fair competition in trade and business, thereby increasing public confidence in advertising, salesmanship, and business methods generally.'"

## Lighting Circuit Aerial

A form of inside aerial which has found much favor among radio owners, is a small screw-plug device which, when attached to any light socket, utilizes the wiring of the house as an aerial system. Such a device is merely a condenser, one terminal of which is connected to one side of the line and the other to the radio receiver, there being no connection between the receiver and the lighting circuit which, of course, obviates the possibility of electric shocks. When using one of these devices, try reversing the plug.

# Cause and Cure of "Microphonics"

LMOST every radio owner who uses a "hard" tube for a detector. has, at some time or other, experienced a loud, howling noise, which increases in volume and rises in pitch. making reception an impossibility. This is what is known as a "microphonic," a noise caused by one or more vibrating tubes, the detector usually being the offending one. You can make sure whether the trouble really is a microphonic by grasping the tube securely while the noise is heard; if it stops you have located the trouble. As just stated, the cause of a microphonic is vibration of the tube. There may, of course, be a number of sources of such vibration, and the removal of the source is the most positive remedy. This, however, is not always possible, for the source may be the loud speaker and without this you would have no reception at all. Then again, it may be the traffic passing your home; machinery in the building, or persons walking around.

The vibration is transmitted through the walls, floors, table or stand on which the receiver is placed, or it may even be transmitted through the air. Sometimes there seems to be no external source of vibration at all, and the tube just starts to produce noise seemingly of its own The quality of each tube is slightly different from that of another. and one tube is therefore apt to be much more microphonic than another, a variation of uniformity which can naturally be expected when tubes are manufactured by the thousands in rapid quantity production. Also, it will be found that the small, three-volt, dry-cell tubes have a greater tendency toward being microphonic than the large six-volt tubes.

Sometimes the trouble can be cured by merely "switching" tubes, or by decreasing the plate voltage of the detector. There are also many devices on the market for curing this trouble, and, these are usually heavy shields or weights to be placed on the tube, or some means of holding the tube rigidly in position. But it is better to arrest the vibration before it enters the set. This can be done in various ways. Get a few pieces of one-inch sponge-rubber and provide cushions of this material under both the receiver cabinet and the loud speaker, the latter being the most common cause of microphonic trouble. The provision of cushion sockets instead of rigid sockets will also be found an



Elsa Baklor, coloratura soprano, whose voice is often heard over WBAL in solo recitals and special programs. Mrs. Baklor has appeared as soloist with the Baltimore Symphony Orchestra and other important musical organizations.

effective method of eliminating this trouble. If this is not entirely effective, remove the loud speaker as far as possible from the set, preferable on another stand or table. Also be sure to turn the bell of the loud speaker away from the set, instead of toward it, for it has been found that the air vibration caused by reception, is transmitted to the tubes, and in many cases this alone is enough to cause them to vibrate.

These measures are certain to reduce the trouble considerably and in most cases will eliminate it entirely. But,

(Continued on page 23)

# Broadcasting Stations of the World

## A List of the Principal Foreign Stations

We suggest that you cut this list out and save it as it will not appear regularly

SOU	TH AMERIC	CA		Netherlands		Meters	Watts
Argentina	i	Meters	Watts	Hilversum	HDO	1060	1000
Buenos Aires	LOJ LOL	$\frac{270}{236}$	1000 2000	Spain			
	LON	210	5000	Barcelona	EAJ1 EAJ13	$\frac{344.8}{462}$	1000 1000
	LOO	252 261.8	1000 3000	Bilboa	EAJ19	434.8	1000
	LOQ LOR	344.8	1000	Cadiz	EAJ3	400	1000
	LOS	291.2	5000	Cartagena Madrid	EAJ16 EAJ7	330 375	$\frac{1000}{1200}$
	LOT LOV	$\frac{400}{361.5}$	1000 1000	San Sebastian	EAJ8	297	3000
	LOW	303	1000	Gd			
	LOX	380	1000	Sweden Motala	SASG	1380	30000
	$_{ m LOZ}^{ m LOZ}$	315.2 330	1000 1000	Stockholm	SASA	454.5	1000
La Plata	LOP	425	1000	0.24 = 1 = 1			
Brazil				Switzerland Zurich	H9XD	500	1500
Rio de Janeiro	SQAA	400	2000		110.11	000	1000
Sao Paulo	SOBO	225.4	1000	United Kingdom			
	SQAG	360	1000	Aberdeen Belfast	2BD 2BE	500 306.1	$\frac{1500}{1500}$
Chile				Birmingham	51T	326.1	1500
Concepcion	CMAI	345	1500	Bournemouth	6BM	491.8	1500
Santiago	CMAD	320	1000	Cardiff Daventry	5WA 5XX	353 1600	$1500 \\ 16000$
Peru				Glasgow	5SC	405.4	1500
Lima	OAX	360	1500	London	2LO	361.4	3000
T				Manchester Newcastle	2ZY 5NO	$\frac{384.6}{312.5}$	1500 1500
Uruguay Montevideo	CWOA	428.4	1000				
	CWOR	450.4	1000		ROPE-ASI	A	
Venezuela				Russia Artemovsk	RA56	790	1200
Caracas	AYRE	375	1000	Astrakhan	RA26	700	1000
				Baku	RA45	750	4000
Austria	EUROPE			Erivan Gomel	RA49 RA39	1050 925	$\frac{1200}{1200}$
Vienna	ORV	517.2	14000	Kharkov	RA43	475	4000
D. Late				Kiev	RA45	775 575	$\frac{1200}{1000}$
Belgium Brussels	BAV	508.5	1500	Koursk Kr <b>a</b> snodar	RA34 RA38	513	1000
brusseis	DAV	300.3	1900	Leningrad	RA42	1000	10000
Czechoslovakia				Minsk Moscow	RA18 RA1	860 1450	1200 40000
Brunn	окв	441.2	2400	Nizhni-Novgorod	RA13	840	1800
Kosice Prague	OKK OKP	263 384.9	2000 5000	Novorossisk Odessa	RA32 RA40	$\frac{1117}{975}$	$\frac{4000}{1200}$
_		00	****	Orenburg	RA25	640	1000
France Lyon	YN	480	1000	Petrozavodsk	RA46	765	2000
Lyon	YR	290	5000	Rostov-on-Don Samara	RA14 RA22	820 900	4000 1200
Paris	FL	500	20000	Stalino	RA77	730	1200
Toulouse	FPTT MRD	458 260	1000 1000	Stavropol Tashkent	RA20 RA27	$\frac{550}{715}$	$\frac{1200}{2000}$
				Tiflis	RA11	870	4000
Germany Berlin	AFT	2900	8000	Tver	RA44	690	1200
	23. 1	2000	0000	Vladivostok Vologda	RA17 RA41	480 875	$\frac{1500}{1200}$
Hungary Budapest	MT1	555.6	2000	· orogan	24.1.1	0.0	
Бицарея	WIII	333.0	2000		ASIA		
Irish Free State Cork	6CK	400	1000	China	0011	40.5	0000
Dublin	2RN	319.1	1500	Mukden	COMK	425	2000
				Chosen			
Italy Milan	IMI	315.8	7000	Seoul	JODK	357	1000
Naples	INA	333.3	1500	Hong Kong			
Rome	IRO	449	3000	Victoria	GOW	300	1500
Latvia		****	200-	Shanghai	KRC	329	5000
Riga	KCX	526.3	2000				

India		Meters	Watt
Bombay	7BY	357.1	3000
Cacutta	7CA	370.4	3000
Japan			
Dairen	JQAK	395	1000
Hiroshima	JOFK	353	10000
Keijo	JÓDK	366	1000
Nagoya	JOCK	370	1000
Osaka	JOBK	400	10000
Sapporo	JOIK	361	10000
Sendai	JOHK	390	10000
Tokio	JOAK	345	10000
Kwangtung			
Dairen	JQAK	395	5000
	OCEANIA		
Australia	002.1111		
Adelaide	5CL	392	1000
Brisbane	4QG	385	1000
Hobart	7ZL	525	3000
Melbourne	3LO	371	1000
Perth	6WF	1250	1000
Sydney	2BL	353	1000
•	2FC	442	2000
	2GB	326	1500

# Cause and Cure of "Microphonics"

(Continued from page 21)

should you still be annoyed, change the hard detector for a detector tube of the "soft" type. Such a tube is non-microphonic, will give better tone quality and is much more sensitive than a hard tube. With the popular use of consoles nowadays, much trouble from microphonics is experienced by the proximity of the built-in horn to the receiver, and its rigid attachment to the console, which only paves the way for this trouble. In such cases the speaker should be unfastened from the console, and then suspended less rigidly. If this does not help, it may be necessary to remove the speaker from the console entirely.

## Catching Criminals

(Continued from page 8)

the flash of a crime. This automatically throws the radio station on the air and he broadcasts direct to the cruisers and scout cars. His orders are repeated by the radio station operator to doubly insure their receipt.

The success attained by the Detroit Police Department has had a far-reaching effect. The Federal Radio Commission has granted permission for the construction of stations to: Chicago; Cleveland; Buffalo, N. Y.; Beaumont, Texas; Berkeley, Cal.; Pasadena, Cal.; Highland Park, Mich.; Miami; Cincinnati; Indianapolis; Philadelphia, and Tulare, Cal.

New York, Atlanta and other points are planning to establish police radio systems and police officials predict the time when the entire nation will be linked together in a network of police radio systems.

# Commission Not to Limit

HE proposal of Commissioner E. O. Sykes to regulate the broadcasting of chain programs over high-powered radio stations was rejected November 5 by the Federal Radio Commission. The vote was 3 to 2. Chairman Ira Robinson and Commissioner Sykes voting for the proposal.

The Commission's action followed opposition to the proposal by M. H. Aylesworth, president of the National Broadcasting Company, who recently told the Commission that this regulation would jeopardize the operations of the company's network. The proposed order would have required all stations subscribing to chain programs of 5,000 watts or more to obtain permission to broadcast them. The purpose, Judge Sykes explained, was to eliminate unnecessary duplication of chain programs on the listener's dials.

The proposed chain order rejected by the Commission follows in full text:

"It is hereby ordered that after January 30, 1930, no broadcasting station of 5,000-watt power or more will be permitted to regularly broadcast chain programs unless and until it has been authorized in writing to do so by the Commission.

"It is further ordered that no two stations of the above power located within the same States shall be permitted to broadcast the same chain program simultaneously unless the Commission shall be satisfied that the geographical separation in mileage or the character of transmission of the station or stations is such that there will be no objectional duplication of programs."

# WHAT'S ON THE AIR TONIGHT?

## A WEEKLY CALENDAR

# Leading Features of the Network Programs

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

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

ginning with WABC are the Columbia Broadcasting S	System.
Daily (Farmt Saturday and Sunday)	2:00-3:00 Patterns in Prints
Daily (Except Saturday and Sunday)	WABC WHK WKRC WADC WDOD
6:45-8:00 Tower Health Exercises WEAF WERI WCAR WFI WRC	WFAN WFBM WCAO WGHP WBBM WFBL WSPD WJAS WLBW WOWO
WEAF WEEL WCAE WFL WRC	WMAK WNAC WEAN WMAL WMAQ
8:00-8:15 Jolly Bill and Jane	WREC WDBJ WWNC KDYL KOIL
WEAF WEEL WGY WFI	KVI KMOX KFPY KLZ WLAC
8:00-8:30 Organ Reveille	3:30-4:00 For Your Information WABC WKRC WADC WISN WDOD
WABC WHK WEAN WREC WDBJ WWNC KMBC KOIL WLAC	WCAU WFBM WFBL WSPD WOWO
8:15-8:30 Morning Devotions	WMAK WMAL WMAQ WREC WDBJ
WEAF WCAE WRC WGY WGR	WWNC KDYL KOIL KVI KMOX KFPY KLZ WLAC WCAO
8:30-8:45 Morning Devotions	4:00-4:30 Musical Album
WABC WDÖD WFBL WMAK WEAN WREC WDBJ WWNC KMBC KOIL	WARE WERE WATE WISN WIGHT
WLAC WDBJ WWNC RMDC ROLL WLAC	WCAU WFBM WCAO WCCO WBBM WFBL WSPD WOWO WMAK WNAC
8:30-9:00 Cheerio	WFBL WSPD WOWO WMAK WNAC WEAN WMAL WMAQ WREC WDBJ
WEAF WEEL WCKY WRC WGY	WWNC KDYL KOIL KVI KMOX
WGR WHO WJAR WTAG WCSH WCAE WWJ WOW WDAF WTMJ	KFPY KLZ WLAC
WCAE WWJ WOW WDAF WTMJ KSTP WEBC WPTF WBT WAPI	4:00-5:00 Dancing Popularities WIZ WBAL WIR KWK
KVOO KPRC WIBO	WJZ WBÂL WJR KWK 4:30-5:00 The Tea Timers
8:45-9:00 Something for Everyone	WABC WHK WKRC WADC WISN
WABC WHK WDOD WCAU WFBL	WDOD WFAN WCAO WCCO WGHP
WJAS WMAK WEAN WREC WDBJ WWNC KOIL KMOX WLAC	WBBM WFBL WSPD WOWO WMAK
9:00-9:15 Milt Coleman	WNAC WEAN WMAL WMAQ WREC WDBJ WWNC KMBC KOIL KVI
WEAF WRC WWJ WOW	KMOX KFPY KLZ WLAC
9:15-10:00 Morning Melodies	5:30-6:00 The Lady Next Door
WEAF WRC WWJ WOW	WEAF WRC WWJ WAPI
9:30-10:00 Morning on Broadway WARC WHK WOOD WFBL WLBW	6:00-7:00 Black and Gold Orchestra WEAF WRC WCAE WLS WWJ
WABC WHK WDOD WFBL WLBW WOWO WKBW WMAL WREC WDBJ	WTAG
WWNC KDYL KOIL KVI KMOX	7:00-7:15 Amos 'n' Andy
WWNC KDYL KOIL KVI KMOX WLAC	7:00-7:15 Amos 'n' Andy WJZ WBZ WBZA WHAM KDKA
WWNC KDYL KOIL KVI KMOX WLAC 10:00-10:30 Ida Bailey Ailen	7:00-7:15 Amos 'n' Andy WJZ WBZ WBZA WHAM KDKA WIR KYW KWK WREN WTMJ
WWNC KDYL KOIL KVI KMOX WLAC 10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO	7:00-7:15 Amoa'n' Andy WJZ WBZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA KSL WDAF
WWNC KDYL KOIL KVI KMOX WLAC 10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK	7:00-7:15 Amos 'n' Andy WJZ WBZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA WRC WLW WMAQ
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW	7:00-7:15 Amos 'n' Andy WJZ WBZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA KSL WDAF WRC WLW WMAQ  Sunday
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WWO	7:00-7:15 Amos 'n' Andy WJZ WBZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA KSL WDAF WRC WLW WMAQ  Sunday
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery	7:00-7:15 Amos 'n' Andy WJZ WBZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA KSL WDAF WRC WLW WMAQ  Sunday  9:00-10:00 Morning Musicale WABC WDOD WCAU WOWO WNAC
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Allen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA	7:00-7:15 Amos 'n' Andy WJZ WBZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WEAN WREC WDBJ WWNC KMOX WLAC
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Allen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN  11:15-11:30 Radio Household Institute	7:00-7:15 Amos 'n' Andy WJZ WZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA KSL WDAF WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WEAN WREC WDBJ WWNC KMOX 10:00-11:00 Children's Hour
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN  11:15-11:30 Radio Household Institute WEAF WEEI WJAR WTAG WCSH	7:00-7:15 Amos 'n' Andy WJZ WBZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WEAN WREC WDDJ WCAU WEAN WREC WDBJ WLAC 10:00-11:00 Children's Hour WABC WDOD WCAU WNAC WEAN
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN  11:15-11:30 Radio Household WEAF WEEI WJAR WTAG WCSH WGR WCAE	7:00-7:15 Amos 'n' Andy WJZ WBZ WBZA WJR KYW KWK KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WEAN WREC WDBJ WLAC  10:00-11:00 Children's Hour WABC WDDD WCAU WREC WDBJ WWNC KMOX WLAC
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Allen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN  11:15-11:30 Radio Household Institute WEAF WEEI WJAR WLT WRC WGY WGR WCAE WTAM WWJ WSAI KSD WFKX	7:00-7:15 Amos 'n' Andy WJZ WBZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WOWO WNAC WEAN WREC WDBJ WWNC KMOX WLAC 10:00-11:00 Children's Hour WABC WDOD WCAU WNAC WEAN WREC WDBJ WWNC KMOX WLAC 12:30-1:00 Metropolitan Echoes WIZ WBAL KWK WRC
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Allen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN  11:15-11:30 Radio Household Institute WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WGR WCAE WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WPW WDAF  11:30-12:30 Columbia Noon Day Club	7:00-7:15 Amos 'n' Andy  WIZ WZ WBZ WBZA WHAM KDKA  WJR KYW KWK WREN WTMJ  KSTP WEBC KOA  WRC WLW WMAQ  9:00-10:00 Morning Musicale  WABC WDOD WCAU  WEAN WREC WDBJ WWNC KMOX  WLAC  10:00-11:00 Children's Hour  WABC WDOD WCAU WNAC WEAN  WREC WDBJ WWNC KMOX WLAC  12:30-1:00 Metropolitan Echoes  WJZ WBAL KWK WRC  1:00-1:30 National Broadcasting Program
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN  11:15-11:30 Radio Household Institute WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WGR WCAE WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WPW WDAF  11:30-12:30 Columbia Noon Day Club WABC WADC WDOD WFAN WCAO	7:00-7:15 Amos 'n' Andy WJZ WZ WBZ WBZA WJR KYW KWK KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WEAN WREC WDBJ WWNC KMOX WLAC  10:00-11:00 Children's Hour WABC WDOD WCAU WREC WDBJ WWNC KMOX WLAC  12:30-1:00 Metropolitan Echoes WJZ WBAL KWK WRC  1:00-1:30 National Broadcasting Program WEAF WCAE WWJ WHO
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Allen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN  11:15-11:30 Radio Household Institute WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WGR WCAE WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WPW WDAF  11:30-12:30 Columbia Noon Day Club WABC WADC WDOD WFAN WCAO WCCO WGHP WBBM WFBL WSPD	7:00-7:15 Amos 'n' Andy  WJZ WBZ WBZA WHAM KDKA  WJR KYW KWK WREN WTMJ  KSTP WEBC KOA KSL WDAF  9:00-10:00 Morning Musicale  WABC WDOD WCAU  WLAN WREC WDBJ WWNC KMOX  ULAC  10:00-11:00 Children's Hour  WABC WDOD WCAU WNAC WEAN  WREC WDBJ WWNC KMOX WLAC  12:30-1:00 Metropolitan Echoes  WJZ WBAL KWK WRC  1:00-1:30 National Broadcasting Program  WEAF WCAE WWJ WHO
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN  11:15-11:30 Radio Household Institute WEAF WEEI WJAR WLIT WRC WGY WGR WCAE WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WPW WDAF  11:30-12:30 Columbia Noon Day Club WABC WADC WDOD WFAN WCAO WCCO WGHP WBBM WFBL WSPD WJAS WLBW WOWO WMAK WNAC	7:00-7:15 Amos 'n' Andy WJZ WBZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WWNC KMOX WLAC 10:00-11:00 Children's Hour WABC WDOD WCAU WWNC KMOX WLAC 10:00-11:00 Metropolitan Echoes WJZ WBAL KWK WRC 1:00-1:30 National Broadcasting Program WEAF WCAE WJ WHO 1:00-1:30 The Nomads WJZ WBAL WJR WRC 1:30-2:00 The Pligrims WRC WRC WBG WRC 1:30-2:00 The Pligrims
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Allen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WIZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN  11:15-11:30 Radio Household Institute WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WGR WCAE WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WPW WDAF  11:30-12:30 Columbia Noon Day Club WABC WADC WDOD WFAN WCAO WCCO WGHP WBBM WFBL WSPD WJAS WLBW WOWO WMAK WNAC WEAN WMAL WREC WDBJ WWNC KOIL KVI KFPY KLZ WFBM	7:00-7:15 Amos 'n' Andy WJZ WZ WZA WBZA WHAM KDKA WJR KYW KWK WKW WTMJ KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WEAN WREC WDBJ WLAC 10:00-11:00 Children's Hour WABC WDOD WCAU WNAC WEAN WREC WDBJ WWNC KMOX WAEC WDBJ WWNC KMOX 1:30-1:30 Metropolitan Echoes WJZ WBAL KWK WRC 1:00-1:30 National Broadcasting Program WEAF WCAE WWJ 1:00-1:30 The Nomads WJZ WBAL WJR 1:30-2:00 The Pligrims WJZ WBAL WJR WSWBAL WJR
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN 11:5-11:30 Radio Household Institute WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WGR WCAE WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WPW WDAF  11:30-12:30 Columbia Noon Day Club WABC WADC WDOD WFAN WCAO WCCO WGHP WBBM WFBL WSPD WJAS WLBW WOWO WMAK WNAC WEAN WMAL WREC WDBJ WWNC KOIL KVI KFPY KLZ WFBM  1:00-1:45 National Farm and Home Hour	7:00-7:15 Amos 'n' Andy WJZ WZ WBZ WBZA WJR KYW KWK KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WEAN WREC WDBJ WWNC KMOX WLAC  10:00-11:00 Children's Hour WABC WDOD WCAU WABC WDOD WCAU WABC WDBJ WWNC KMOX WLAC  10:00-11:00 Metropolitan Echoes WJZ WBAL KWK WRC  1:00-1:30 The Nomads WJZ WBAL KWK WRC  1:00-1:30 The Nomads WJZ WBAL WJR WRC  1:30-2:00 The Pilgrims WJZ WBAL WJR WRC  1:30-2:00 Godfrey Ludlow
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Allen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WZ WBZA WHAM KDKA WLW KWK WREN WJR WGN 11:15-11:30 Radio Household Institute WEAF WEEI WJAR WLIT WRC WGY WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WYW WDAF 11:30-12:30 Columbia Noon Day Club WABC WADC WDOD WFAN WCAO WCCO WGHP WBBM WFBL WSPD WJAS WLBW WOWO WEAN WMAL WREC WDBJ WWNC KOIL KVI KFPY 1:00-1:45 National Farm and Home Hour	7:00-7:15 Amos 'n' Andy  WIZ WZ WZ WBZA WHAM KDKA  WJR KYW KWK WREN WTMJ  KSTP WEBC KOA  WRC WLW WMAQ  9:00-10:00 Morning Musicale  WABC WDOD WCAU  WEAN WREC WDBJ WWNC KMOX  U.00-11:00 Children's Hour  WABC WDOD WCAU  WABC WDOD WCAU  WABC WDOD WCAU  WREC WDBJ WWNC KMOX  12:30-1:00 Metropolitan Echoes  WJZ WBAL KWK WRC  1:30-1:30 The Nomads  WJZ WBAL KWK WRC  1:00-1:30 The Piligrims  WJZ WBAL WJR  1:30-2:00 The Piligrims  WJZ WBAL WJR  1:30-2:00 Godfrey Ludlow  WEAF WWJ WCAB WTAM KSD
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Allen WABC WGHP WMAL WFBL WEAN WNAC WFBL WEAN WNAC WFBL WEAN WNAC WFBL WEAN WNAC WADOW WEAN WADC WARC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WLW KWK WREN WJR WGN 11:15-11:30 Radio Household Institute WEAF WEEI WJAR WITAM WWJ WSAI KSD WTAM WWJ WSAI KSD WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WPW WDAF  11:30-12:30 Columbia Noon Day Club WABC WADC WDOD WADW WOOW WAS WLBW WOWO WMAK WNAC WEAN WMAL WREC WDBJ WWNC KOIL KVI KFPY L:00-1:45 National Farm and Home Hour WJZ WBZ WBZA WBAL WHAM KSTP WEBC WRVA WPBT WBT	7:00-7:15 Amos 'n' Andy  WJZ WBZ WBZA WHAM KDKA  WJR KYW KWK WREN WTMJ  KSTP WEBC KOA  WRC WLW WMAQ  9:00-10:00 Morning Musicale  WABC WDOD WCAU  WEAN WRE WDBJ WWNC KMOX  ULAC  10:00-11:00 Children's Hour  WABC WDDD WCAU  WREC WDBJ WWNC KMOX  12:30-1:00 Metropolitan Echoes  WJZ WBAL KWK WRC  1:00-1:30 National Broadcasting Program  WEAF WCAE WWJ  WEAF WCAE WWJ  1:30-2:00 The Pilgrims  WJZ WBAL WRC  1:30-2:00 Godfrey Ludlow  WEAF WJZ WBAL WRC  1:30-2:00 Godfrey Ludlow  WEAF WJ WCAB  KSTP WAPI WOW  WHO  2:00-2:30 Troiks Bells
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN  11:15-11:30 Radio Household Institute WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WGR WCAB WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WPW WDAF  11:30-12:30 Columbia Noon Day Club WABC WADC WDOD WFAN WCAO WCCO WGHP WBBM WFBL WSPD WJAS WLBW WOWO WMAK WNAC WEAN WMAL WREC WDBJ WWNC KOIL KVI KFPY KLZ WFBM  1:00-1:45 National Farm and WJZ WBZ WBZA WBZA WBAL WHAM KSTP WEBC WRVA WFKK WREN WIAX WIOD WHAS WSM WMC	7:00-7:15 Amos 'n' Andy WJZ WZ WZA WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WEAN WREC WDBJ WWNC KMOX WLAC  10:00-11:00 Children's Hour WABC WDOD WCAU WNAC WEAN WREC WDBJ WWNC KMOX WAC 10:01:00 Metropolitan Echoes WJZ WBAL KWK WRC 1:00-1:30 National Broadcasting Program WEAF WCAE WWJ WHO 1:00-1:30 The Nomads WJZ WBAL WJR WRC 1:30-2:00 The Pligrims WJZ WBAL WRC 1:30-2:00 The Pligrims WJZ WBAL WRC 1:30-2:00 Godfrey Ludlow WEAF WJ WCAE KSTP WAPI WOW 2:00-2:30 Troika Bells WEAF WWJ KSL KSD WLS
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN  11:15-11:30 Radio Household Institute WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WGR WCAE WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WPW WDAF  11:30-12:30 Columbia Noon Day Club WABC WADC WDOD WFAN WCAO WCCO WGHP WBBM WFBL WSPD WJAS WLBW WOWO WMAK WNAC WEAN WMAL WREC WDBJ WWNC KOIL KVI KFPY KLZ WFBM  1:00-1:45 National Farm and Home Hour WJZ WBZ WBZA KDKA WJR WLW KKKK WREN WJAK WIOD WHAS WSM WMC KYOO WKY KTHS KPRC WOAI	7:00-7:15 Amos 'n' Andy WJZ WBZ WBZA WHAM KDKA WJR KYW KWK KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WEAN WREC WDBJ WWNC KMOX WLAC  10:00-11:00 Children's Hour WABC WDOD WCAU WREC WDBJ WWNC KMOX WLAC  10:00-11:00 Metropolitan Echoes WJZ WBAL KWK WRC  1:00-1:30 National Broadcasting Program WEAF WCAE WWJ WHO  1:00-1:30 The Nomads WJZ WBAL WJR WRC  1:30-2:00 The Pilgrims WJZ WBAL WJR WRC  1:30-2:00 The Pilgrims WJZ WBAL WJR WRC  1:30-2:00 Godfrey Ludlow WEAF WWJ WCAB WTAM KSD KSTP WAPI WOW  2:00-2:30 Troika Bells WEAF WWJ KSL KSD WLS
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Allen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WEZ WBZA WLW KWK WREN WJR WGN 11:15-11:30 Radio Household Institute WEAF WEEI WJAR WLIT WRC WGY WGR WCAE WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WPW WDAF 11:30-12:30 Columbia Noon Day Club WABC WADC WDOD WFAN WCAO WCCO WGHP WBBM WFBL WSPD WJAS WLBW WOWO WMAK WNAC WEAN WMAL WREC KOIL KVI KFPY 1:00-1:45 National Farm and WJZ WBZ WBZA KDKA WJR WLW KFKX WREN WJAS WLBW WOWO WKY KTPS WHO WYAS WLBW WOWO WMAK WNAC WEAN WMAL WREC KOIL KVI KFPY 1:00-1:45 National Farm and Home Hour WJZ WBZ WBZA KDKA WJR WLW KFKX WREN KSTP WEBC WRVA WPTF WBT WJAX WIOD WHAS KYOO WKY KTHS KPRC WOAI	7:00-7:15 Amos 'n' Andy WJZ WZ WZA WBZA WHAM KDKA WJR KYW KWK KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WEAN WREC WDBJ WWNC KMOX WLAC  10:00-11:00 Children's Hour WABC WDOD WCAU WREC WDBJ WWNC KMOX WLAC  10:00-11:00 Metropolitan Echoes WJZ WBAL KWK WRC  10:01-1:30 Tational Broadcasting Program WEAF WCAE WWJ WHO  1:30-1:30 The Nomads WJZ WBAL KWK WRC  1:30-2:00 The Pilgrims WJZ WBAL WRC  1:30-2:00 Godfrey Ludlow WEAF WWJ WCAE KSTP WAPI WOW  2:00-2:30 Troika Bells WEAF WWJ KSL KSD WLS WCC  2:00-3:00 Roxy Symphony Concert WIZ WBZ WBZA WBAL KDKA
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Allen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN 11:15-11:30 Radio Household Institute WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WGR WCAE WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WPW WDAF 11:30-12:30 Columbia Noon Day Club WABC WADC WDOD WFAN WCAO WCCO WGHP WBBM WFBL WSPD WJAS WLBW WOWO WMAK WNAC WEAN WMAL WREC WDBJ WWNC KOIL KVI KFPY 1:00-1:45 National Farm and WJZ WBZ WBZA WDAF LWSPD WJAS WLBW WOWO WMAK WNAC WEAN WMAL WREC WDBJ WWNC KOIL KVI KFPY 1:00-1:45 National Farm and WJZ WBZ WBZA WBAL WHAM KSTP WEBC WRAW WPTF WJAX WIOD WHAS WSM WMC KVOO WKY KTHS KPRC WOAI 1:30-2:00 Harold Stern Orchestra WBAC WKRC WADC WISN WDOD	7:00-7:15 Amos 'n' Andy WIZ WEZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WEAN WREC WDBJ WWNC KMOX UAC  10:00-11:00 Children's Hour WABC WDOD WCAU WREC WDBJ WWNC KMOX WREC WDBJ WWNC KMOX WLAC  12:30-1:00 Metropolitan Echoes WJZ WBAL KWK WRC 1:30-1:30 The Nomads WJZ WBAL KWK WRC 1:00-1:30 The Nomads WJZ WBAL WJR WRC 1:30-2:00 Godfrey Ludlow WEAF WCAE WWJ WHO  1:30-2:00 Godfrey Ludlow WEAF WBJ WCAB KSTP WAPI WOW WEAF WWJ WCAB KSTP WAPI WOW WEAF WWJ KSL KSD WLS WOC  2:00-3:00 Roxy Symphony Concert WJZ WBZ WBZ WBAL KNW WJR
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN  11:15-11:30 Radio Household Institute WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WGR WCAE WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WPW WDAF  11:30-12:30 Columbia Noon Day Club WABC WADC WDOD WFAN WCAO WCCO WGHP WBBM WFBL WSPD WJAS WLBW WOWO WMAK WNAC WEAN WMAL WREC WDBJ WWNC KOIL KVI KFPY KLZ WFBM  1:00-1:45 National Farm and Home Hour WJZ WBZ WBZA WBAL WHAM KSTP WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC KVOO WKY KTHS KPRC WOAI  1:30-2:00 Harold Stern Orchestra WBAC WKRC WADC WISN WDOD WBAN WDOD WWAN WDOD WFAN WFM WUOD WJAS WBAC WHO WOW 1:30-2:00 Harold Stern Orchestra WBAC WKRC WADC WISN WDOD WFAN WFMS WCAO WGHP	7:00-7:15 Amos 'n' Andy WJZ WZ WZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WOWO WNAC WEAN WREC WDBJ WWNC KMOX WLAC  10:00-11:00 Children's Hour WABC WDOD WCAU WNAC WEAN WREC WDBJ WWNC KMOX WLAC  10:00-1:00 Morning Musicale WABC WDOD WCAU WNAC WAOX WAC  10:00-1:00 Children's Hour WABC WDBJ WWNC KMOX WLAC  10:00-1:00 Morning Musicale WABC WDOD WCAU WNAC WEAN WEAF WDDJ WWNC KMOX WLAC  10:00-1:30 National Broadcasting Program WEAF WCAE WWJ WHO  1:00-1:30 The Nomads WJZ WBAL WJR WRC  1:30-2:00 The Pilgrims WJZ WBAL WJR WRC  1:30-2:00 Godfrey Ludlow WEAF WWJ WCAE KSTP WAPI WOW WEAF WWJ WCAE KSTP WAPI WOW  2:00-2:30 Troika Bells WEAF WWJ KSL KSD WLS WOC  2:00-3:00 Roxy Symphony Concert WJZ WBZ WBZA WBAL WLW WTMJ KSTP KYW KDKA
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Allen WABC WGHP WMAL WFBL WEAN WNAC WFBL WEAN WADC WFRC WFBL WEAN WADC WFRC WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WIW KWK WREN WJR WFRN WFRN WFRN WFRN WFRN WFRN WFRN WFR	7:00-7:15 Amos 'n' Andy WJZ WZ WZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WOWO WNAC WEAN WREC WDBJ WWNC KMOX WLAC  10:00-11:00 Children's Hour WABC WDOD WCAU WNAC WEAN WREC WDBJ WWNC KMOX WLAC  10:00-1:00 Morning Musicale WABC WDOD WCAU WNAC WAOX WAC  10:00-1:00 Children's Hour WABC WDBJ WWNC KMOX WLAC  10:00-1:00 Morning Musicale WABC WDOD WCAU WNAC WEAN WEAF WDDJ WWNC KMOX WLAC  10:00-1:30 National Broadcasting Program WEAF WCAE WWJ WHO  1:00-1:30 The Nomads WJZ WBAL WJR WRC  1:30-2:00 The Pilgrims WJZ WBAL WJR WRC  1:30-2:00 Godfrey Ludlow WEAF WWJ WCAE KSTP WAPI WOW WEAF WWJ WCAE KSTP WAPI WOW  2:00-2:30 Troika Bells WEAF WWJ KSL KSD WLS WOC  2:00-3:00 Roxy Symphony Concert WJZ WBZ WBZA WBAL WLW WTMJ KSTP KYW KDKA
WWNC KDYL KOIL KVI KMOX WLAC  10:00-10:30 Ida Bailey Ailen WABC WGHP WMAL KMBC WCCO WFBL WEAN WNAC WBBM WMAK WCAU WCAO WJAS WADC WKRC KMOX KOIL WSPD WHK WLBW WISN WOWO  11:00-11:30 Forecast School of Cookery WJZ WBZ WBZA WHAM KDKA WLW KWK WREN WJR WGN  11:15-11:30 Radio Household Institute WEAF WEEI WJAR WTAG WCSH WLIT WRC WGY WGR WCAE WTAM WWJ WSAI KSD WFKX WTMJ KSTP WHO WPW WDAF  11:30-12:30 Columbia Noon Day Club WABC WADC WDOD WFAN WCAO WCCO WGHP WBBM WFBL WSPD WJAS WLBW WOWO WMAK WNAC WEAN WMAL WREC WDBJ WWNC KOIL KVI KFPY KLZ WFBM  1:00-1:45 National Farm and Home Hour WJZ WBZ WBZA WBAL WHAM KSTP WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC KVOO WKY KTHS KPRC WOAI  1:30-2:00 Harold Stern Orchestra WBAC WKRC WADC WISN WDOD WBAN WDOD WWAN WDOD WFAN WFM WUOD WJAS WBAC WHO WOW 1:30-2:00 Harold Stern Orchestra WBAC WKRC WADC WISN WDOD WFAN WFMS WCAO WGHP	7:00-7:15 Amos 'n' Andy WZ WZ WBZ WBZA WHAM KDKA WJR KYW KWK WREN WTMJ KSTP WEBC KOA WRC WLW WMAQ  9:00-10:00 Morning Musicale WABC WDOD WCAU WEAN WREC WDBJ WWNC KMOX UAC  10:00-11:00 Children's Hour WABC WDOD WCAU WREC WDBJ WWNC KMOX WAC  12:30-1:00 Metropolitan Echoes WJZ WBAL KWK WRC 1:30-1:30 National Broadcasting Program WEAF WCAE WWJ 1:00-1:30 The Nomads WJZ WBAL WJR WRC 1:30-2:00 Godfrey Ludlow WEAF WJE WBAL WRC 1:30-2:00 Godfrey Ludlow WEAF WWJ WCAB KSTP WAPI WOW WEAF WWJ WCAB KSTP WAPI WOW WEAF WWJ KSL KSD WLS WOC  2:00-3:00 Roxy Symphony Concert WJZ WBZ WBZA WBAL KDKA WLW WTMJ KSTP KYW WJR WRC WFAA WEBC KWK KFAB

3:00-4:00 The Jewish Hour	7:00-7:30 Heroes of the World
WEAF WIAR WCSH WRC WGR	WEAF WJAR WTAG WCSH WLIT
WCAE WWJ WSAI WCFL	WRC WGY WGR WCAE WTAM
3:00-4:00 National Youth Conference	WFJC WWJ WSAI WLS WOC
WJZ WBAL WRVA WPTF WJAX WMC WSB WOAI KFAR	WDAF WTMJ WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM
	WMC WSB WSMB KVOO WKY
3:00-4:00 Symphonic Hour	KPRC WOAI WEEI KSD WHO
WABC WHK WKRC WADC WISN WDOD WCAU WFBM WCAO WCCO	WAPI KOA
WDOD WCAU WFBM WCAO WCCO WGHP WFBL WSPD WJAS WOWO	7:30-7:45 French Trio
WKBW WNAC WEAN WMAL WMAQ	WABC WKRC WADC WISN WDOD
WAIU WREC WDBJ WWNC KDYL	WFAN WFBM WCAO WFBL WSPD
KMBC KOIL KVI KMOX KFPY	WJAS WLBW WMAL WMAQ WREC WDBJ WWNC KDYL KOIL KVI
KFH KLZ WLAC	WDBJ WWNC KDYL KOIL KVI KFPY KLZ
4:00-5:00 Cathedral Hour WABC WHK WKRC WADC WISN	
WABC WHK WKRC WADC WISN WDOD WCAU WFBM WCAO WCCO	7:30-8:00 At the Baldwin WJZ WBZ WBZA WBAL WHAM
WGHP WFBL WSPD WIAS WIRW	WJZ WBZ WBZA WBAL WHAM WJR WLW WREN KYW KWK
WOWO WKBW WNAC WEAN WMAL	WTMJ WEBC KSTP WHAS WSB
WMAC WMAQ WREC WDBJ WWNC	WSM KOA WMC KSL WSMB
KDYL KMBC KOIL KVI KMOX	7:45-8:00 "The World's Business"
KFPY KLZ WLAC 4:00-5:00 National Light Opera	WABC WKRC WADC WISN WDOD
WJZ WBAL KSTP WRC KFAB	WFAN WFBM WCAO WCCO WFBL
WTMJ	WJAS WLBW WNAC WMAL WMAQ
4:00-5:30 Cathedral Hour	WREC WDBJ WWNC KDYL KMBC
WEAF WGY WEEL WJAR WTAG	KOIL KVI KFPY KLZ
WCSH WGR WCAE WOW WRVA	7:30-8:30 Major Bowes' Family
WPTF WJAX WSM WMC WSB	WEAF WJAR WRC WGY WCAR WWJ WSAI KSD WOW WFJC
WKY WOAI KPO KGO KOMO	WWJ WSAI KSD WOW WFJC WIOD WHAS WMC WSB WKY
KFI KGW KHQ	WTAM KTHS WDAF WHO
5:00-5:30 Duo Disc Duo WJZ WBZ WBZA WBAL WLW	8:00-8:15 Enna Jettick Melodies
KVW KWK WPEN VEAD WID	WJZ WBZ WBZA WHAM WKY
5:00-5:30 McKesson News Reel WABC WNAC W AN WFBL WKBW	WIR KWK WLW WREN WFAA
WABC WNAC W AN WFBL WKBW	KPRC WOAI WHAS WSM WSB
WJAS WADC WKRC WGHP WOWO	WTMJ KSTP WMC KOA KDKS
KMBC KOIL WSPD WHK WLBW WMAL WHEC WDBJ WTAR WWNC	KYW WEBC WIOD WBT KVOO KTHS
WMAL WHEC WDBJ WTAR WWNC WLAC WDOD WBRC WREC KLRA	
KFJF KRLD KFH KTSA WCCO	8:00-8:30 La Palina Rhapsodizers WABC WNAC WCAU WEAN WFBL
WISH WEST REZ REYL RHI	WABC WNAC WCAU WEAN WFBL WCAO WJAS WADC WKRC WFBM
KFRC KOIN KVI KFPY WCAU	KMOX KMBC KOIL WLBW WMAL
WMAQ KMOX	WISN WMAK WGHP WOWO WSPD
5:30-6:00 Rev. Donald Grey Barnhouse WABC WMAL WKBW WEAN WNAC	WCCO WHK
WKRC WIAS WEBL WILBW WCALL	8:15-9:15 Collier's Radio Hour
WCAO WADC WMAO WOWO KOIL	WJZ WBZ WBZA WHAM KDKA
WIBM	WJR WLW KYW KWK WREN KOA KSL KGW KOMO KHQ
5:30-6:00 Gilbert Sports Revue WEAF WEEI WJAR WTAG WCSH	KPO KFI
WEAF WEEL WJAR WTAG WCSH WFI WRC WGY WGR WCAE	8:30-9:00 Chase & Sanborn Orchestra
	WEAF WTIC WJAR WTAG WCSH
KSD WHO WOW WDAF WTMJ	WRC WLIT WGY WGR WCAR
KSTP WEBC KSL KGO KOMÔ	WFJC WWJ WSAI KSD WOW
KGW KHQ KFI WOC	WLS WDAF WIOD WHAS WEBC
5:30-6:00 National Religious Service WJZ WBAL WBZ WBZA WHAM	WMC WSB WSMB WKY KTHS KPRC WOAI WOC KVOO
KFAB	
6:00-6:15 Echoes of the Orient	8:30-9:00 Sonatron Program WABC WCAU WEAN WFBL WCAO
6:00-6:15 Echoes of the Orient WEAF WCAE WRC WWJ KSD	WABC WCAU WEAN WFBL WCAO WJAS WADC WKRC WOWO KMOX
KOA WGY WOC WOW	KMBC KOIL WHK WLBW WMAL
6:00-6:30 Fox Fur Trappers WABC WCAU WNAC WHK	KLZ KDYL WBBM WNAC WGHP
6:15-6:30 Countees Olda Madalada Albani	WMAK WSPD WCCO WFBM KFRC
6:15-6:30 Countess Olga Medolago Albani	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY 9:00-9:15 "Our Government," David Lawrence
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY 9:00-9:15 "Our Government," David Lawrence WEAF WTIC WJAR WTAG WCSH
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC WHO WOW 6:30-7:00 Old Company's Songalogue WEAF WEEI WCSH WTAG WLIT	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY  9:00-9:15 "Our Government," David Lawrence WEAF WTIC WJAR WTAG WCSH WRC WGV WCAR KSD WHAS
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC WHO WOW. 6:30-7:00 Old Company's Songalogue WEAF WEEI WCSH WTAG WLIT WIAF WFC WGY WGP	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY  9:00-9:15 "Our Government," David Lawrence WEAF WTIC WJAR WTAG WCSH WRC WGV WCAR KSD WHAS
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC WHO WOW 6:30-7:00 Old Company's Songalogue WEAF WEEI WCSH WTAG WLIT WJAR WRC WGY WGR 6:30-7:00 1-T9:Calers	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY  9:00-9:15 "Our Government," David Lawrence WEAF WTIC WJAR WTAG WCSH WRC WGY WCAE KSD WHAS WKY WSAI WFJC WGR WSB WBT WMC WSM WFAA WOW
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC WHO WOW 6:30-7:00 Old Company's Songalogue WEAF WEEI WCSH WTAG WLIT WJAR WRC WGY WGR 6:30-7:00 1-7) Scalers WABC WIAS WNAC WEAN WHK	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY  9:00-9:15 "Our Government," David Lawrence WEAF WTIC WJAR WTAG WCSH WRC WGY WCAE KSD WHAS WKY WSAI WFJC WGR WSB WHY WMC WSM WFAA WOW WOAI WHO
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC WHO WOW 6:30-7:00 Old Company's Songalogue WEAF WEEI WCSH WTAG WLIT WJAR WRC WGY WGR 6:30-7:00 I-T]Scalers WABC WJAS WNAC WEAN WHK WSPD WCAU WFBL KOIL KMBC WKBW WADC WKRC WGHP WOWO	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY  9:00-9:15 "Our Government," David Lawrence WBAF WTIC WJAR WTAG WCSH WRC WGY WCAE KSD WHAS WKY WSAI WFJC WGR WSB WBT WMC WSM WFAA WOW WOAI WHO  9:00-10:00 Majestic Theatre of the Air WABC WCAU WNAC WEAN WFBL
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC WHO WOW 6:30-7:00 Old Company's Songalogue WEAF WEEI WCSH WTAG WLIT WJAR WRC WGY WGR 6:30-7:00 1-7)Scalers WABC WJAS WNAC WEAN WHK WSPD WCAU WFBL KOIL KMBC WKBW WADC WKRC WGHP WOWO WLBW WMAL KMOX	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY  9:00-9:15 "Our Government," David Lawrence WEAF WTIC WJAR WTAG WCSH WRC WGY WCAE KSD WHAS WKY WSAI WFJC WGR WSB WBT WMC WSM WFAA WOW WOAI WHO  9:00-10:00 Majestic Theatre of the Air WABC WCAU WNAC WEAN WFBL WMAK WCAO WIAS WADC WKRC
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC WHO WOW 6:30-7:00 Old Company's Songalogue WEAF WEEI WCSH WTAG WLIT WJAR WRC WGY WGR 6:30-7:00 I-T)Scalers WABC WJAS WNAC WEAN WHK WSPD WCAU WFBL KOIL KMBC WKBW WADC WKRC WGHP WOWO WLBW WMAL KMOX 6:30-7:00 Whittail Anglo-Persians	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY  9:00-9:15 "Our Government," David Lawrence WEAF WTIC WJAR WTAG WCSH WRC WGY WCAE KSD WHAS WKY WSAI WFIC WGR WSB WBT WMC WSM WFAA WOW WOAI WHO  9:00-10:00 Majestic Theatre of the Air WABC WCAU WNAC WEAN WFBL WMAK WCAO WJAS WADC WKRC WGHP WBBM WOWO KMOX KMBC
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC WHO WOW 6:30-7:00 Old Company's Songalogue WEAF WEEI WCSH WTAG WLIT WJAR WRC WGY WGR 6:30-7:00 I-T)Scalers WABC WJAS WNAC WEAN WHK WSPD WCAU WFBL KOIL KMBC WKBW WADC WKRC WGHP WOWO WLBW WMAL KMOX 6:30-7:00 Whittail Anglo-Persians	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY  9:00-9:15 "Our Government," David Lawrence WEAF WTIC WJAR WTAG WCSH WRC WGY WCAE KSD WHAS WKY WSAI WFJC WGR WSB WHY WMC WSM WFAA WOW WOAI WHO  9:00-10:00 Majestic Theatre of the Air WABC WCAU WNAC WEAN WFBL WMAK WCAO WJAS WADC WKRC WGHP WBBM WOWO KMOX KMBC KOIL WSPD WHK WLBW WLAC
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC WHO WOW 6:30-7:00 Old Company's Songalogue WEAF WEEI WCSH WTAG WLIT WJAR WRC WGY WGR 6:30-7:00 1-T)Scalers WABC WJAS WNAC WEAN WHK WSPD WCAU WFBL KOIL KMBC WKBW WADC WKRC WGHP WOWO WLBW WMAL KMOX 6:30-7:00 Whittall Anglo-Persians WJZ WBZ WBZA WBAL KDKA WLW WJR KYW KWK	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY  9:00-9:15 "Our Government," David Lawrence WEAF WTIC WJAR WTAG WCSH WRC WGY WCAE KSD WHAS WKY WSAI WFJC WGR WSB WOAI WHO  9:00-10:00 Majestic Theatre of the Air WABC WCAU WNAC WEAN WFBL WMAK WCAO WJAS WADC WKRC WGHP WBBM WOWO KMOX KMBC WGIL WSPD WHK WLBW WLAC WMAL WDBJ WTAR WWNC WDOD
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC WHO WOW 6:30-7:00 Old Company's Songalogue WEAF WEEI WCSH WTAG WLIT WJAR WRC WGY WGR 6:30-7:00 1-T)Scalers WABC WJAS WNAC WEAN WHK WSPD WCAU WFBL KOIL KMBC WKBW WADC WKRC WGHP WOWO WLBW WMAL KMOX 6:30-7:00 Whittall Anglo-Persians WJZ WBZ WBZA WBAL KDKA WLW WJR KYW KWK WTMJ KSTP WEBC KOA KSL KGO KOMO KHO KGW KFI	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY  9:00-9:15 "Our Government," David Lawrence WEAF WTIC WJAR WTAG WCSH WRC WGY WCAE KSD WHAS WKY WSAI WFJC WGR WSB WHY WMO WFAA WOW WOAI WHO  9:00-10:00 Majestic Theatre of the Air WABC WCAU WNAC WEAN WFBL WMAK WCAO WJAS WADC WKRC WGHP WBBM WOWO KMOX KMBC KOIL WSPD WHK WLBW WLAC WMAL WDBJ WTAR WWNC WDOD WBRC WRCE KLRA KFIF KRLD
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC WHO WOW 6:30-7:00 Old Company's Songalogue WEAF WEEI WCSH WTAG WJAR WRC WGY WGR 6:30-7:00 I-T)Scalers WABC WJAS WNAC WEAN WHK WSPD WCAU WFBL KOIL WKBW WADC WKRC WGHP WOWO WLBW WMAL KMOX 6:30-7:00 Whittail Anglo-Persians WJZ WBZ WBZA WBAL WHAM KDKA WLW WJR KYW KWK WTMJ KSTP WEBC KOA KSL KGO KOMO KHQ KGW KFI	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY  9:00-9:15 "Our Government," David Lawrence WEAF WTIC WJAR WTAG WCSH WRC WGY WCAE KSD WHAS WKY WSAI WFJC WGR WSB WHY WMO WFAA WOW WOAI WHO  9:00-10:00 Majestic Theatre of the Air WABC WCAU WNAC WEAN WFBL WMAK WCAO WJAS WADC WKRC WGHP WBBM WOWO KMOX KMBC KOIL WSPD WHK WLBW WLAC WMAL WDBJ WTAR WWNC WDOD WBRC WRCE KLRA KFIF KRLD
6:15-6:30 Countess Olga Medolago Albani WEAF WRC WCAE KSD WOC WHO WOW 6:30-7:00 Old Company's Songalogue WEAF WEEI WCSH WTAG WLIT WJAR WRC WGY WGR 6:30-7:00 1-T)Scalers WABC WJAS WNAC WEAN WHK WSPD WCAU WFBL KOIL KMBC WKBW WADC WKRC WGHP WOWO WLBW WMAL KMOX 6:30-7:00 Whittall Anglo-Persians WJZ WBZ WBZA WBAL KDKA WLW WJR KYW KWK WTMJ KSTP WEBC KOA KSL KGO KOMO KHO KGW KFI	WMAK WSPD WCCO WFBM KFRC KHJ KOIN KVI KFPY  9:00-9:15 "Our Government," David Lawrence WEAF WTIC WJAR WTAG WCSH WRC WGY WCAE KSD WHAS WKY WSAI WFIC WGR WSB WBT WMC WSM WFAA WOW WOAI WHO  9:00-10:00 Majestic Theatre of the Air WABC WCAU WNAC WEAN WFBL WMAK WCAO WJAS WADC WKRC WGHP WBBM WOWO KMOX KMBC KOIL WSPD WHK WLBW WLAC WMAL WDBJ WTAR WWNC WDOD WBRC WREC KLRA KFJF KRLD

9:15-9:45 D'Orsay's Parisienne Romance	5:00-5:30 Five o'Clock Sweethearts WABC WKRC WISN WDOD WFAN
WJZ WBZ WBZA WHAM KDKA WJR KYW KWK WREN WCKY	WABC WKRC WISN WDOD WFAN WCAO WCCO WGHP WBBM WFBL
	WSPD WOWO WMAK WMAL WMAQ
9:15-10:15 Atwater Kent Concert WEAF WEEI WRC WGY WGR	WREC WDBJ WWNC KMBC KVI
WCAE WTAM WWJ WSAI WGN	KMOX KFPY KFH KLZ
KSD WOW KSTP KOA KSL	6:00-6:30 Mormon Tabernacle Choir
KPO KGO KFI KGW KOMO	WJZ WBAL WSM WLW KWK
KHQ WSM WMC WSB WFAA	WRC KOA KSL KPO KGO KOMO KFAB WAPI
KPRC WOAI WKY WFI WSMB WOC	6:30-7:00 H. V. Kaltenborn
9:45-10:15 The Fuller Man	WABC WHK WKRC WISN WDOD
WJZ WBZ WBZA WHAM KDKA	WFBM WCAO WBBM WJAS WLBW
WJR KYW KWK WREN WCKY	WOWO WKBW WMAQ WREC WDBJ WWNC KVI KFPY KLZ KFRC
	7:00-7:30 Buck and Wing
10:00-10:30 Arabesque WABC WHK WKRC WISN WADC	WEAF WRC WCAE WOW
WDOD WFBM WCAO WFBL WSPD	7:30-8:00 Roxy and His Gang WJZ WBZ WBZA WHAM KDKA
WJAS WLBW WKBW WNAC WEAN WMAL WMAQ WREC WDBJ WWNC	WJZ WBZ WBZA WHAM KDKA WIR KWK WRC WSM WSB
WMAL WMAQ WREC WDBJ WWNC KDYL KMBC KVI KMOX KFPY	WJR KWK WRC WSM WSB WIOD WCFL WSMB WAPI WPTF
KLZ WLAC	WREN KFAB
10:15-10:45 Studebaker Champions	7:45-8:00 Back of the News
10:15-10:45 Studebaker Champions WEAF WTIC WTAG WCSH WFI WRC WGY WGR WCAE WTAM	WEAF WKY WOC WEBC WJAR
WRC WGY WGR WCAE WTAM	WCSH WGR WSAI KVOO KOA 8:00-8:30 Voice of Firestone
WWJ WGN KSTP WTMJ WEBC KOA KPO KGO KGW KOMO	WEAF WEEL WTIC WJAR WTAG
KFI KHQ WOW KSL WJAR	WOSH WLIT WRC WGY WGR
WHO WHO	WCAE WWJ KYW WSAI KSD
10:15-11:00 Master Musicians	WOC WOW WDAF WIOD KTHS WSMB KSTP WTMJ WEBC WJAX
WJZ WHAM KOA WRC KWK	WSMB KSTP WTMJ WEBC WJAX WHAS WSM WMC WSB WBT
10:30-11:00 Jesse Crawford	WRVA KVOO KPRC WOAI WKY
WABC WCAU WNAC WEAN WFBL	WFJC WTAM WFAA
WKBW WCAO WJAS WADC WKRC WGHP WMAO WOWO KMOX KMBC	8:30-9:00 Ingram Shavers
WGHP WMAQ WOWO KMOX KMBC KOIL WSPD WHK WLBW WMAL	WJZ WBZ WBZA WJAR WLW KWK WREN WHAM KDKA KYW
KLZ KDYL KHJ KFRC KOIN	WIOD WRVA WJAX WTMJ WMC
KVI KFPY	WSB WKY KŤHS KPRC KFAB
10:45-11:15 Sunday at Seth Parker's	WBT WOAI WEBC WSM WSMB
WEAF WCAE WHAS WJAX WOW	8:30-9:00 Ceco Couriers WABC WCAU WNAC WEAN WFBL
WKY WWJ WFJC WIOD WHO	WABC WCAU WNAC WEAN WFBL WMAK WCAO WJAS WADC WKRC
11:00-12:00 Back Home Hour WABC WCAO WKRC WISN WDOD	WGHP WMAQ KMOX KMBC KOIL
WCAU WFBM WGHP WFBL WSPD	WHK WLBW WMAL WCCO WSPD
WOWO WMAK WNAC WEAN WMAL	WFBM
WMAQ WREC WDBJ WWNC KOIL	8:30-9:30 A & P Gypsies WEAF WEEI WTIC WJAR WTAG
KVI KFPY KFH KLZ KDYL	WCSH WLIT WRC WGY WGR
11:15-11:45 South Sea Islanders	WCAE WWJ WSAI WGN KSD
WJZ KDKA WRC KWK	WOC WDAF WTAM
11:15-11:45 Christmas Club Program WEAF WEEI WTIC WJAR WTAG	9:00-9:30 Edison Program WJZ WBZ WBZA KDKA WJR
WEAF WEEI WTIC WJAR WTAG WCSH WFI WRC WGY WGR	KÝW WREN WEBC KSL KPO
WCAE WTAM WFJC WWJ KSD	KGO KOMO KFI KGW KHQ
WHO WOW WIMI KSTP WEBC	KOA KWK WHAM KSTP
WBT WJAX WIOD WHAS WSM WMC WSB WAPI WKY KTHS	9:00-9:30 Physical Culture Magazine Hour
WMC WSB WAPI WKY KTHS WBAP KPRC WOAI KOA KGO	WABC WCAU WNAC WFBL WMAK WCAO WJAS WADC WKRC WGHP
KGW KFI WCKY	WMAQ WGL KMOX KMBC KOIL
11:45-12:00 Sam Herman, Xylophonist	WSPD WHK WLBW WMAL WEAN
WEAF WOW KOA WOC WWJ	9:30-10:00 Chesebrough Real Folks
WBAP	WJZ WBZ WBZA WHAM KDKA
11:45-12:00 Armchair Quartet WJZ KDKA KWK WRC WREN	KWK KYW WREN WLW WJR
WJZ KDKA KWK WRC WREN	9:30-10:00 General Motors Family Party WEAF WEEL WTIC WJAR WCSH
Monday	WTAG WLIT WRC WGY WGR
Monday	WCAE WTAM WWI WGN KSD
9:30-10:00 Blue Monday Chasers	WOC WOW WDAF KSTP WTMJ
WABC WHK WDOD WFBL WLBW WOWO WMAK WMAL WREC WDBJ	WHAS WSM WMC WSB WBT WJAX WFAA KPRC WOAI WKY
WOWO WMAK WMAL WREC WDBJ WWNC KDYL KOIL KVI KMOX	WJAX WFAA KPRC WOAI WKY KOA KSL KPO KGO KFI
WLAC	KGW KOMO KHQ
10:30-11:00 Columbia Mixed Quartet	9:30-10:00 "An Evening in Paris"
WARC WADC WDOD WCAII WGHP	WARC WERL WEAN WISN WNAC
WBBM WFBL WJAS WLBW WOWO WMAL WREC WDBJ WWNC KMBC	WKRC WMAL WSPD WHK WADC WMAK WMAQ WLBW WOWO WJAS
WMAL WREC WDBJ WWNC KMBC KOIL KFPY KLZ WLAC	WMAK WMAQ WLBW WOWO WJAS WCAU KMOX KMBC KOIL WCAO
AULL REFI RLZ WEAC	
11.15-11.20 Fliggboth Follows' Mone Club	WGHP CFRB
11:15-11:30 Elizabeth Fellows' Menu Club WABC WDOD WCAU ECAO WBBM	
WABC WDOD WCAU ECAO WBBM WFBL WLBW WOWO WMAK WMAL	10:00-10:30 Cabin Nights WJZ WBZ WBZA WJR KYW
WABC WDOD WCAU ECAO WBBM	10:00-10:30 Cabin Nights

10:00-10:30 Panatela Country Club WABC WCAU WNAC WEAN WF	8:00-8:30 Blackstone Plantation
WABC WCAU WNAC WEAN WF	BL WABC WCAU WNAC WEAN WFRL
WMAK WCAO WJAS WADC WK WGHP WMAQ WOWO KMOX KM	RC WKBW WCAO WJAS WGHP KMBC BC KOIL WLBW WMAL WHP WHEC
KOIL WSPD WHK WLBW WM	AL WCCO
WFBM	8:00-8:30 Pure Oil Band
10:30-11:30 Voice of Columbia	WJZ WBAL WHAM KDKA WIR
WABC WHK WLAC WCCO WO' WGHP WCAO WISN WWNC WK	WO WLW KYW KWK WREN KSTP BN WTMJ WEBC WHAS WMC WBT
WGHP WCAO WISN WWNC WK WLBW WNAC WEAN WSPD WA	
WMAQ WMAL WDOD WFBM WB	8:30-9:00 Around the World
WJAS WKRC WCAU KFH KOI	L WJZ WBZ WBZA WBAL WHAM
KLZ KDYL WMAK KMOX KVI	KDKA WJR WLW KWK KYW
WREC WDBJ	WREN WHAS WSM WMC WSB WSMB KOA KSL KPO KGO
10:30-11:00 Empire Builders WJZ WBZ WBZA WHAM KDI	
WIR WOW KYW KWK WR	8:30-9:00 Prophylactic Program
WTMJ KSTP WEBC WKY WF	WEAF WEEL WCAE WIAR WTAG
KPRC WOAI KOA KSL KPC	WCSH WFI WRC WGY WGR
KGO KFI KOMO KHQ KGV	WSAI KSD WLS WHO WOW WDAF WWJ
11:00-12:00 New Yorker Hotel Orchestra	8:30-9:00 True Romances
WEAF WTIC WGR WFJC WW	WABC WCAU WNAC WEAN WFBI.
WMC WIJE WW	WKBW WADC WOWO KMOX KOIL
11:30-12:00 Abe Lyman's Orchestra	WHK WLBW WMAL WBBM KMBC WCAO WGHP WSPD WAIU WIAS
WARC WCCO WOWO WGHP WCA	U 0.00 0.20 I-lancan and I-lancan b
WISN WWNC WKBN WLBW WSF WMAL WDOD WFBM WBRC WKI	~ W17 W197 W1974 W154 W155 W1
WMAL WDOD WFBM WBRC WKI WCAU KFH KOIL KLZ KDY	KYW KWK WLW WREN WBAL
WKBW KVI WREC WDBJ	7.00-10.00 Evereauy Hour
	WEAF WEEI WFI WRC WGY WGR WCAE WTAM WWI WGN
Tuesday	WGR WCAE WTAM WWJ WGN KSD WHO WDAF KSTP WEBC
Tuesday	
11:00-11:30 Walter Kolomoku's Honolulus WABC WDOD WCAU WGHP WBE WFBL WSPD WLBW WOWO WKI	ns WOAI WJAR
WERL WSPD WIRW WOWO WEI	BM 9:00-10:00 Old Gold-Whiteman Hour BW WABC WCAU WNAC WEAN WFBL
WMAL WREC WIBI WWNE KVI	WABC WCAU WNAC WEAN WFBL WKBW WCAO WJAS WADC WGHP
KFPY KLZ WFBM	WKBW WCAO WJAS WADC WGHP WBBM WOWO KMOX KYBC KOIL
3:15-4:00 Matinee Gems WJZ KWK WRVA WJAX WIO	WSPD WHK WLBW WMAL WCCO
WJZ KWK WRVA WJAX WIO KOA WJR	
4:00-4:45 Columbia Symphony Orchestra	WWNC WLAC WDOD WBRC WREC KFJF KTSA WISN WDSU WFBM
4:00-4:45 Columbia Symphony Orchestra WABC WMAL WNAC WEAN WFE WOWO WADC WGHP WWNC WLA	M KRLD WKRC KFRC KHI KOIN
WOWO WADE WERP WWNE WEA	C KVI KFPY KFH
WKRC WIBW WKBW KOIL KFR WBBM WDBJ WREC WBRC WHI	C 9:30-10:00 Dutch Masters Minstrels
WBBM WDBJ WREC WBRC WHI WHP WISN WCAO WSPD WDG	
WCCO WCAII KIZ KMRC KDS	L WTMI
KFPY KMOX 4:45-5:15 The Rhythm Kings	10:00-10:30 Fada Orchestra
WABC WKRC WISN WDOD WFA	WABC WCAU WNAC WEAN WFBL
WCAO WCCO WBBN WFBL WSP	
WOWO WMAL WMAO WREC WDI	I KOIL WSPD WHK WIRW WMAI
WWNC KMBC KVI KMOX KFP	Y WFBM KLRA KFJF KRLD KTSA
KLZ 6:00-6:30 Show Folks	WCCO WISN WIBW
WABC WHK WKRC WOOD WIS	10:00-10:30 Clicquot Club Eskimos WEAF WEEI WCSH WJAR WFI
WFBM WCAO WCCO WBBM WLE	W WRC WGY WGR WCAE WWI
WOWO WEAN WMAQ WREC WDI WWNC KVI KFPY KLZ KFR	BJ WSAI WOW KYW KSD WHÔ
WWNC KVI KFPY KLZ KFR 7:00-7:15 Roads of the Sky	
WEAF WRC WIOD WSM KOA	WSB WOAI KOA KSL WTMJ KPRC WRVA WBT WJAX WKY
WHO WCSH WFI WTAG WTA	M KPO KGO KFI KGW KOMO
WPTF KVOO WOAI KSL WHA	AS KHO WEBC WBAP WTAG
WOW 7:00-7:30 Jeddo Highlanders	10:00-10:30 Williams Oilomatics
WJZ WBZ WBZA WHAM	WJZ WBZ WBZA WBAL WHAM KDKA KWK WREN WGN
7:15-7:30 Universal Safety Series	10:30-11:00 Freed Orchestradians
WEAF WJAR WTAG WCSH WRO	10:30-11:00 Freed Orchestradians WJZ WBZ WBZA WBAL WHAM
WSAI WDAF WRVA WPTF WBT WHAS WSMB WKY KTHS WOA	KDKA WJR KYW KWK WREN
WHAS WSMB WKY KTHS WOA KOA WFI WCAE WOW WEE	I KSTP KOA KSL KGO KOMO C KHQ KGW KFI
WJAX WIOD WSM KVOO KSL	10:30-11:00 Night Club Romance
KGO KOMO KGW WCKY	WABC WHK WLAC WOWO WGHP
7:30-7:45 Lew White Organ Recital WJZ WBAL WRC WKY WIO	WCAO WISN WHP WWNC WLBW
WJZ WBAL WRC WKY WIO WPTF WREN	WNAC WEAN WSPD WADC WMAL WDOD WFBM WBRC WJAS WKRC
7:30-8:00 Soconyland Sketches	WCAU KOIL KLZ KDYL KMBC
WEAF WEEL WIAR WTAG WCS	H WKBW KFPY KMOX KVI WREC
WGY WGR	WDBJ
8:00-8:30 Songs of the Season WEAF WTAG WFI WRC WGY	10:30-11:30 R-K-O Hour WEAF WEEL WJAR WTAG WCSH
WGR WWJ WSAI KSD WEE	

WFIC		
WRVA WPET WIAX WIOD WSAM WPMC WSB WAPI WSMB WFAA KPRC WPJ WK KK KRW KRE WCCO WOW WGHP WARD WARD WCCO WOW WGHP WARD WISN WPJ WWNC WLBW WRSW WSMB WKEC WCAU KFH KOIL KLZ KDYL KMBC WKBW KFPY KYI WREC WDJW WARL WDDU WFBM WBRC KYN WAPI WWNC WLBW WRAL WDDW WAAL WDDU WFBM WBRC WFAA KPR KOIL KLZ KDYL KMBC WKBW KFPY KYI WREC WDJW WAAL WDDW WRC WLBW WRAL WDDW WRC WLBW WRAL WDDW WRC WLBW WRAL WREN WBR WARD WCAL WRAC WBJ WARD WCAL WRAC WBAL WARD WCAL WRAC WBAL WARD WCAW WARD WARD WRAC WBAN WARD WCAU WRAC WBAN WARD WCAU WRAC WBAN WCAO WJS WAPI WWNC WMAL WFBM WBBM WISN WHAL WFBM WBBM WISN WHAL WWREN WWR WARD WARD WGHP WORD WARD WARD WARD WHAN KDRA WLW KWK WARD WHAL WWREN WBR WHAM KDRA WLW KWK WHAN KDRA WLW KWK WHAN KDRA WLW KWK WHAN KDRA WLW WWKW WHAL WFBM WBBM WISN WHAN KDRA WLW WWNC WHAL WFBM WBBM WISN WHAN KDRA WLW WWKW WHAL WWREN WBBM WISN WHAN KDRA WLW WWKW WHAN KDRA WLW WWW WHAN KDRA WLW WWKW WHAN KDRA WLW WWW WHAN WSMW WSBW WAPI WHAN KDRA WLW WWW WWNC WARD WARD WRAC WCOO WOW WARD WWAC WCOO WOW WARD WWAC WARD WORD WARD WWRO WAAL WREC WARD WOO WAAL WREC WARD WOO WAAL WREC WARD WOO WAAL WREC WARD WOO WAAL WREC WARD WRO WWAL WWO WARD WWRO WAL WREC WARD WRO WOO WAAL WREC WARD WRO WOO WAAL WREC WARD WRO WWAL WWO WARD WRO WWAL WWO WARD WWRO WWAL WREC WARD WRO WWAL WREC WARD WRO WWAL WRO WARD WRO WWAL WWO WARD WRO WWAL WRO WARD WRO WWAL WRO WARD WRO WAN WAL WRO WARD WRO WAN WAN WAL WRO WOO WAN WAN WAL WRO WRO WAN WAL WRO WOO WAN WAN WAL WRO WRO WAN WAL WRO WRO WAN WAL WRO WRO WAN	WFJC WWJ WSAI KSD WHO	8:00-8:30 Grand Opera Concert
WSM	WOW WDAF WTMJ KSTP WEBC	WARC WEAR WUNIC WIRW WNAC
ROA   RSL   RPO   KGW   KGW   RFT   KOMO KHQ   WIBO     RFT   KOMO KHQ   WIBO   WIBO     WIBO   WIBO   WIBO   WIBO     WIBO   WIBO   WIBO   WIBO     WIBO   WIBO   WIBO   WIBO     KLZ   KDYL   KMBC   WKBW   KFFY     KLZ   KDYL   KMBC   WKBW   WFFT     KLZ   KDYL   KMBC   WKBW   WFFT     KLZ   KDYL   KMBC   WKBW   WJ     WABC   WCCO   WWDW   WKBW   WFFT     WABC   WCCO   WWDW   WKBW   WFFT     WABC   WCCA   WFFT   WT     WABC   WCAS   WFFT     WEAF   WFFT   WFFT     WEAF   WFFT   WFFT     WABC   WCAS   WFFT     WABC   WCAS   WFFT     WABC   WCAS   WFFT     WABC   WCAS   WILT   WGY     WABC   WCAS   WILT   WGY     WABC   WCAS   WHAN   WKBC     WABC   WCAS   WILT   WGY     WABC   WC	WRVA WBT WJAX WIOD WHAS	WISH WAP WWINC WILL WOOD
ROA   RSL   RPO   KGW   KGW   RFT   KOMO KHQ   WIBO     RFT   KOMO KHQ   WIBO   WIBO     WIBO   WIBO   WIBO   WIBO     WIBO   WIBO   WIBO   WIBO     WIBO   WIBO   WIBO   WIBO     KLZ   KDYL   KMBC   WKBW   KFFY     KLZ   KDYL   KMBC   WKBW   WFFT     KLZ   KDYL   KMBC   WKBW   WFFT     KLZ   KDYL   KMBC   WKBW   WJ     WABC   WCCO   WWDW   WKBW   WFFT     WABC   WCCO   WWDW   WKBW   WFFT     WABC   WCCA   WFFT   WT     WABC   WCAS   WFFT     WEAF   WFFT   WFFT     WEAF   WFFT   WFFT     WABC   WCAS   WFFT     WABC   WCAS   WFFT     WABC   WCAS   WFFT     WABC   WCAS   WILT   WGY     WABC   WCAS   WILT   WGY     WABC   WCAS   WHAN   WKBC     WABC   WCAS   WILT   WGY     WABC   WC	WSM WMC WSB WAPI WSMB	WERM WIAS WERC WOALL KOIL
KFI KOMO KHQ WIBO  11.00-11.30 Around the Samovar WiBo WARC WARC WARD WARD WARD WARD WARD WARD WARD WARD	WYAA KPKC WUAI WKI KINS	KIZ KDYL KERC WKBW KEPY
## WAD WOOD WERD WOAD WITH WAS WEEN WITH WAS WEEN WITH WEEN WITH WAS WITH WAS WEEN WEEN WITH WAS WEEN WEEN WEEN WITH WAS WEEN WEEN WEEN WEEN WEEN WEEN WEEN WEE	VEI VOMO VHO WIRO	KMOX KVI WAIU WREC WDBJ
WÄBC WCCO WOWO WGHP WNACA WHAN WHAN WHAN WHAN WHAN WHAN WHAN WHA		8:00-8:30 The Yeast Foamers
WISN WHP WONC WEBW WSPD WAL WODD WSRC WASN WSPD WAL WODD WSRC WISN WSPD WAL WSPD WSRC WALL WSPD WSRC WALL WSPD WSRC WALL WSPD WSRC WSPD WSRC WCAU KFH KILL KLY KOPEC BI  11:38-12:00 Hotel Paramount Orchestra WABC WCCO WOW WGHP WCAO WISN WHP WWNC WEBW WSPD WMAL WDDD WSRC WKCL WARD WSPD WSRC WEBW KFPY KU WARD WSRD WSRC WEBW KFPY KU WSRC WEBW WSPD WSRC WSRD WSRD WSRD WSRC WSRD WSRD 9:15-10:00 Parnassus String Trio WIZ WIZ WRE WKRE WARD WCAD WSRD WSRD WARD WCAD WSRD WSRD WARD WCAD WSRD WSRD WSRD WSRD WSRD WSRD WSRD WSRD	WARC WCCO WOWO WGHP WCAO	WIZ WRZ WRZA WHAM KDKA
WJAS WARC WCAD KPH WCAD WAS WARC WCAD WBW KPPY WAS WREC WOBJ WARD WPEC WRED WAS WREC WCO WOO WGHP WCAD WISN WPP WNN WNN WLEW WAS WREN WAN WPP WNN WNN WEBW WSPD WAAL WDOD WFM WBEC WFAN KPF KOL KLZ KYEL KMEE WKBW KPPY KU WARC WFAN KPF KOL KLZ KYEL KMEE WKBW KPPY KU WREC WFAN KPF KOL KLZ KYEL WARD WARD WFAN KPF KOL KLZ KYEL WARD WFAN KPF KOL KLZ WYR WARD WEAF WCAE WIJ WSAL WREN WAL WIJ WJR WREN KWK WREN WJR WREN KWK WREN WJR WREN KWK WREN WJR WREN KWK WAL WJR WREN KWK WAL WJR WREN KWK WAL WJR WREN WAL WJR WREN KWK WAL WJR WJR WREN KWK WAL WJR WJR WREN KWK WAL WJR WJR WREN WAL WJR WJR WJR WREN WAL WJR WJR WREN WAL WJR WJR WREN WAL WJR WJR WJR WAR WAL WJR WJR WJR WAR WJR WJR WAR WJR WJR WAR WJR WJR WAR WJR WJR WJR WJR WJR WJR WAR WJR WJR WAR WJR WJR WAR WJR WJR WJR WJR WJR WJR WJR WJR WJR WAR WJR WJR WJR WJR WJR WAR WJR WJA WJR WJR WJA WJR WJR WJA WJR W	WISN WHP WWNC WLBW WNAC	wjr kyw kwk wlw wren
WJAS WARC WCAD KPH WCAD WAS WARC WCAD WBW KPPY WAS WREC WOBJ WARD WPEC WRED WAS WREC WCO WOO WGHP WCAD WISN WPP WNN WNN WLEW WAS WREN WAN WPP WNN WNN WEBW WSPD WAAL WDOD WFM WBEC WFAN KPF KOL KLZ KYEL KMEE WKBW KPPY KU WARC WFAN KPF KOL KLZ KYEL KMEE WKBW KPPY KU WREC WFAN KPF KOL KLZ KYEL WARD WARD WFAN KPF KOL KLZ KYEL WARD WFAN KPF KOL KLZ WYR WARD WEAF WCAE WIJ WSAL WREN WAL WIJ WJR WREN KWK WREN WJR WREN KWK WREN WJR WREN KWK WREN WJR WREN KWK WAL WJR WREN KWK WAL WJR WREN KWK WAL WJR WREN WAL WJR WREN KWK WAL WJR WJR WREN KWK WAL WJR WJR WREN KWK WAL WJR WJR WREN WAL WJR WJR WJR WREN WAL WJR WJR WREN WAL WJR WJR WREN WAL WJR WJR WJR WAR WAL WJR WJR WJR WAR WJR WJR WAR WJR WJR WAR WJR WJR WAR WJR WJR WJR WJR WJR WJR WAR WJR WJR WAR WJR WJR WAR WJR WJR WJR WJR WJR WJR WJR WJR WJR WAR WJR WJR WJR WJR WJR WAR WJR WJA WJR WJR WJA WJR WJR WJA WJR W	WEAN WSPD WMAL WDOD WBRC	WTMJ KSTP WEBC KFAB
KLZ KDYL KMBC WKBW KPPY WREC WRECK WHALL WRECK WRECK WRECK WHALL WRECK W	WIAS WKRC WCAU KFH KOIL	
11-30-12-20   Hotel Paramount Orchestra	KLZ KDYL KMBC WKBW KFPY	WEAF WEEL WITC WAR WIAG
WASC   WCCO   WOWD WGHP   WSPD   WISK   WI	KVI WREC WDBJ	
WISN WIP WWNC WEBW WSPD WMAN WDOD WFBM WBRC WKRC WFAN KFH KOIL KLZ KMBC WFAN KFH KOIL KLZ KMBC WFW WFBW WSPD WOBJ 11:30-12:00 Harbor Lights WGR WFJC WRVA KSD  WGR WFJC WRVA KSD  WCadnesday 9:15-10:00 Parmassus String Trio WJZ WSZ WREN WABC WCAU WNAC WEAN WCAO WJAS WADC WGHP KMOX KOIL WSPD WHK WABC WCAU WNAC WEAN WAMAL WFBM WSBM WSB WAMAL WFBM WSBM WSBW WAMAL WFBM WSBM WSW WMAL WFBM WSBW WFBL 10:30-11:00 Interior Decorating WABC WCAU WNAC WEAN WABC WCAU WNAC WEAN WAMAL WFBM WSBM WSBW WMAL WFBW WSBM WSBW WMAL WFBW WSBM WSBW WHAM WSBM WSB WAPI WKRC WADC WGHP WASK FKX WBAL WJR 11:00-11:51 The Wissoc Program WEAF WCAE WLIT WGY WABC WKRC WADC WSD WWNC KFPY KLZ 3:30-4:00 Our Little Playhouse WABC WKRC WADC WSD WABC WKRC WADC WSD WABC WKRC WADC WSD WACO WISN WHP WWNC WNAC WREE WODB WWNC KDYL WEEL WDBI WWNC KDYL WARC WFAN KOIL KLZ WZ WBZ WSBM KMOX WFFY KLZ 3:30-4:10 Our Little Playhouse WABC WKRC WADC WSD WARC WFPY KLZ WASW WSBM WKB WSBW WASW WWN WHP WWNC WNAC WREE WDBI WWNC KDYL WREE WDBI WWNC KDYL WREE WDBI WWNC KDYL WARC WFAN KOIL KLZ WARC WAN WHP WWNC WNAC WREE WAN WHP WWNC WNAC WREE WAN WHP WWNC WNAC WREE WDBI WWNC KDYL WREE WDBI WWNC KDYL WREE WSD WHAL WCO WOOD WCAU WFBM WACO WCO WWO WREE WSD WADC WGHP WCAO WISN WHP WWNC WNAC WREE WSD WADC WGHP WCAO WISN WHP WWNC WNAC WREE WDBI WWNC KDYL WREE WDBI WWNC KDYL WREE WDBI WWNC KDYL WREE WDBI WWNC KDYL WREE WOWO WAAL WDBO WFBM WACO WISN WHP WWNC WNAC WREE WDBI WWNC KDYL WREE WDBI WWNC KDYL WREE WDBI WWNC KDYL WREE WDBI WWNC KDYL WREE WDBI WWNC WWNAC WREE WBBI KND WREE WAS WREE WJ WREE WAS WREE WWJ WREE WAS WREE WREE WJ WREE WAS WREE WREE WJ WREE WAS WREE WREE WJ WREE WAS	11:30-12:00 Hotel Paramount Orchestra	WOAR WEIC WTAM KOA KVOO
WMAL WDOD WFBM WBRC WFRY KYI WREC KPYA KFH KOIL KLZ KDYL KMBC WARD WCAO WNAC WBAC WBRD WBRD WBRD WBRD WBRD WBRD WBRD WBRD		WEAR KODO WOAT WKY
WEAF WCAE WFI WWJ WRC  WEAF WCAE WFI WWJ WRC  WEAF WCAE WFI WWJ WRC  9:15-10:00 Parnasasus String Trio WJZ WJR WREN KWK 10:00-10:45 The Manhatters WAL WFEN WAL WGC WJAS WADC WGH WOWN WGAO WJAS WADC WGAE WJR 11:00-11:30 Milady's Mirror WGAS WCAE WLIT WGY WGAE WGAE WGAE WGAE WGEN WAAK WGAO WJAS WADC WGEN WAG WGAE WGAE WJD WGAE WAG WGAE WGAE WJD WGAE WAG WGAE WGAE WJD WGAE WAG WGAE WGAE WGEN WAG WGAE WHA WGC WGAE WHK WCCO WOWN WGAE WHK WCCO WOWN WGAE WHK WCCO WOWN WGAE WHK WCCO WGHP WAG WHK WCCO WGH WGHP WAG WHK WGEN WAG WGHO WGAE WGHP WAG WGAE WHA WGAE WAG WGHO WGHP WAG WHK WGO WGAE WHK WCCO WGHP WAG WHK WGO WAG WHA WHA WGAE WAG WGHO WGHP WAG WHK WGO WGAE WHK WCCO WGHP WAG WHK WGO WAG WHA WHA WGAE WAG WGHO WGHP WAG WHK WGO WGAE WHK WGO WGHP WAG WHK WGO WGHP WAG WGAE WHA WGAE WGAF WEEL WJA WJZ WBZ WBZA WHA WGAE WGAE WGAE WGEN WJZ WBZ WBZA WAL WGE WGAF WEEL WJA WMAK WGAE WGAE WWJ WGAE WGAE WGAE WCY WWA WAEL WGAE WCAU WNAC WAEN WGE WGAE WGAE WYW WAEL WGAE WCAU WNAC WAEN WGE WGAE WGAE WCY WAA WAEL WAG WGAE WAL	MISH MUS MANC ARRA MREC	8-30-9:00 Forty Fathom Trawlers
WEAF WCAE WFI WWJ WRC  WEAF WCAE WFI WWJ WRC  WEAF WCAE WFI WWJ WRC  9:15-10:00 Parnasasus String Trio WJZ WJR WREN KWK 10:00-10:45 The Manhatters WAL WFEN WAL WGC WJAS WADC WGH WOWN WGAO WJAS WADC WGAE WJR 11:00-11:30 Milady's Mirror WGAS WCAE WLIT WGY WGAE WGAE WGAE WGAE WGEN WAAK WGAO WJAS WADC WGEN WAG WGAE WGAE WJD WGAE WAG WGAE WGAE WJD WGAE WAG WGAE WGAE WJD WGAE WAG WGAE WGAE WGEN WAG WGAE WHA WGC WGAE WHK WCCO WOWN WGAE WHK WCCO WOWN WGAE WHK WCCO WOWN WGAE WHK WCCO WGHP WAG WHK WCCO WGH WGHP WAG WHK WGEN WAG WGHO WGAE WGHP WAG WGAE WHA WGAE WAG WGHO WGHP WAG WHK WGO WGAE WHK WCCO WGHP WAG WHK WGO WAG WHA WHA WGAE WAG WGHO WGHP WAG WHK WGO WGAE WHK WCCO WGHP WAG WHK WGO WAG WHA WHA WGAE WAG WGHO WGHP WAG WHK WGO WGAE WHK WGO WGHP WAG WHK WGO WGHP WAG WGAE WHA WGAE WGAF WEEL WJA WJZ WBZ WBZA WHA WGAE WGAE WGAE WGEN WJZ WBZ WBZA WAL WGE WGAF WEEL WJA WMAK WGAE WGAE WWJ WGAE WGAE WGAE WCY WWA WAEL WGAE WCAU WNAC WAEN WGE WGAE WGAE WYW WAEL WGAE WCAU WNAC WAEN WGE WGAE WGAE WCY WAA WAEL WAG WGAE WAL	WEAN KEH KOIL KLZ KDYL	WABC WADC WCAO WNAC WKBW
WEAF WCAE WFI WWJ WRC  WEAF WCAE WFI WWJ WRC  WEAF WCAE WFI WWJ WRC  9:15-10:00 Parnasasus String Trio WJZ WJR WREN KWK 10:00-10:45 The Manhatters WAL WFEN WAL WGC WJAS WADC WGH WOWN WGAO WJAS WADC WGAE WJR 11:00-11:30 Milady's Mirror WGAS WCAE WLIT WGY WGAE WGAE WGAE WGAE WGEN WAAK WGAO WJAS WADC WGEN WAG WGAE WGAE WJD WGAE WAG WGAE WGAE WJD WGAE WAG WGAE WGAE WJD WGAE WAG WGAE WGAE WGEN WAG WGAE WHA WGC WGAE WHK WCCO WOWN WGAE WHK WCCO WOWN WGAE WHK WCCO WOWN WGAE WHK WCCO WGHP WAG WHK WCCO WGH WGHP WAG WHK WGEN WAG WGHO WGAE WGHP WAG WGAE WHA WGAE WAG WGHO WGHP WAG WHK WGO WGAE WHK WCCO WGHP WAG WHK WGO WAG WHA WHA WGAE WAG WGHO WGHP WAG WHK WGO WGAE WHK WCCO WGHP WAG WHK WGO WAG WHA WHA WGAE WAG WGHO WGHP WAG WHK WGO WGAE WHK WGO WGHP WAG WHK WGO WGHP WAG WGAE WHA WGAE WGAF WEEL WJA WJZ WBZ WBZA WHA WGAE WGAE WGAE WGEN WJZ WBZ WBZA WAL WGE WGAF WEEL WJA WMAK WGAE WGAE WWJ WGAE WGAE WGAE WCY WWA WAEL WGAE WCAU WNAC WAEN WGE WGAE WGAE WYW WAEL WGAE WCAU WNAC WAEN WGE WGAE WGAE WCY WAA WAEL WAG WGAE WAL	KMRC WKRW KFPY KVI WREC	WMAO WKRC WHK WGHP WLBW
WALL WHP   WFBM WHECK   WHAT   WWA   WRC   WWA   WWA   WRC   WWA   WWA   WRC   WRC   WWA   WRC   WRC   WRC   WWA   WRC		
WEAF WCAE WFI WNJ WSC WRC WFIL WRC WFIL WRC WFIL WRC WGAE WFIL WRC WGAE WGAE WGAE WGAE WGAE WGAE WGAE WGAE	11:30-12:00 Harbor Lights	WMAL WHP WFBM WHEC
Wednesday	WEAF WCAE WFI WWJ WRC	8:30-9:00 Happy Wonder Bakers
9:15-10:00 Parnassus String Trio WiZ WJR WREN KWK 10:00-10:45 The Manhatters WJZ KWK WREN WBAL 10:30-11:00 Interior Decorating WABC WCAU WAC WEAP WAS	WGR WFJC WRVA KSD	WEAF WEEL WIIC WIAK WIAG
### WECH SCIBY  9:15-10:00 Parnassus String Trio ### WIZ WIR  10:00-10:45 The Manhatters ### WIZ WIR  10:30-11:00 Interior Decorating ### WABC WCAU WNAC WEAN WAAL WFBM WBBM WISN WAAL WFBM WBBM WISN WAAL WFBM WBBM WISN WAAL WFBM WBBM WISN WAAK WKRC  10:45-11:00 Mary Hale Martin ### WIZ WBZ WBZA WAPD WAAM KDKA WLW KWK WHAM KDKA WLW KWK WHAM KDKA WLW KWK WHAM KDKA WLW KWK WARN WSB WSB WAPI WR WASK KFKX WBAL WJR  11:00-11:30 Milady's Mirror WCSF WILIT WGY WCSF WID WCAO WCO WFBL WRD WOWO WMAK WAAL WREC WSPD OWN C KPYL KLZ 3:30-4:00 Our Little Playhouse WABC WKC WDDJ WWNC KDYL KOIL KVI KMOX KFPY KLZ 4:30-5:15 Club Plaza Orchestra WABC WKRC WADC WMAL WSPD WADC WMAL WDDD WBRC WKRC WFAN KOIL KLZ WKRC WFAN WLBW WWAL WRAD WREC WKRC WFAN KOIL KLZ WKRC WFAN WLBW WWAL WRAD WREC WKRC WFAN KOIL KLZ WKRC WFAN WLBW WWNC WAAK WREN WWIM WKRC  **WABC WKC WWJ **WABC WKC WGA WABC WKO WWW WAAL WABC WKO WWO WMAK WAL WABC WKO WWW WAAL WABC WKO WWW WAAL WABC WKO WWO WMAK WAL WABC WKR WKR WKR **WABC WKC WGW **		
9:15-16:90 Parnassus String Tio  WZ WZ WREN WREN 10:30-10-100 Interior Decorating.  WASH WASH WALL WASH WASH WASH  WASH WALL WFBM WBBM WISN  WMAL WFBM WBBM WISN  WSMB WSB WAPI  WILL WSMM WSMB WSD WAPI  WSM WSMB WSB WAPI  WILL WSMM WSMB WSW WWK  WHAM KDRKW WBALL  WSMM WSMB WSB WAPI  WILL WSMM WSMB WSW WWK  WHAM KDRKW WBALL  WILL WSMM WSMB WSW WWK  WHAM KDRKW WBALL  II:00-11:30 Milady's Mirror  WABC WCSH  II:00-11:30 Milady's Mirror  WABC WCOW WMAL WREC  WABC WDOD WCALU WBBM  WEND WADC WKRC WADC WISN  WABC WCOW WMAL WREC  WABC WCOW WMAL WREC  WABC WCOW WMAL WMAL  WSSD WOWO WMAL WREC  WABC WCOW WISN  WASH WCOW WWAL  WSSD WOWO WMAL WMAL  WSSD WWRC WFPY KLZ  4:30-5:15 Club Plazs Orchestra  WABC WCAD WISN  WCAO WISN WHP WWNC  WCAO WISN WHP WWNC  WCAO WISN WHP WWNC  WKRC WFAN KOIL  WSSD WWC WFAN KOIL  WSSD WWC WFAN WISN  WCSH  WASH WCO WFAN WILL  WASH WILL WRC WGY  WASH WWAL  WASH WASH WALL  WASH WALL  WASH WALL  WASH WALL  WASH WALL  WESH  WILL WRC WGY WCSH  WASH WALL  WWAL WALL  WASH WHA WALL  WWAL WALL  WASH WHA WALL  WASH WA	Wednesday	WEIG WETP WITMI WMC KVOO
10-10-13-15   10 Mary Hale Martin   WADK	6 45 10.00 Darmasous Steins Tele	WOAL KPRC WKY WLS WFAA
10-10-13-15   10 Mary Hale Martin   WADK	9:15-10:00 Parnassus String 1710	8-30-9-00 Sivvania Foresters
10:30-11:90 Interior Decorating   WABC WCAU WABC WCAU WNAC WEAN WAKK WCAO WJAS WADC WGHP WOWO KMOX KOIL WSPD WHK WLBW WAMAL WFBL WKRC   WASK WSB WSB WAPI WJR WHAM KDKA WLW KWK WREN WREN WHAM KDKA WLW KWK WREN WCSH   11:00-11:15 The Wissco Program WABC WADC WKRC WABC WCAU WBBM WFBL WLBW WOWO WMAL WREC WDBJ WWNC KFPY KLZ   WASK WOOD WCAU WBBM WFBL WSDD WOWO WMAK WAAL WAQ WREC WDBJ WWNC KFPY KLZ   WASK WSDD WOWO WMAK WAAL WAQ WREC WDBJ WWNC KDY'L KVI KMOX KFPY KLZ WASC WSDD WOWO WAAK WAAL WAQ WREC WDBJ WWNC KDY'L KUI KMOX KFPY KLZ   WASC WSDD WOOD WCAU WBBM WFBL WSDD WOWO WAK WAAL WAQ WREC WDBJ WWNC KDY'L KVI KMOX KFPY KLZ   WASC WSDD WADC WHK WCOO WWW WNAC WSPD WADC WHAK WCOO WWW WNAC WSPD WADC WAL WSDD WOOD WCAU WBBM WFBL WSDD WOOD WCAO WSDD WOOD WCAO WSDD WWNC KOY'L KVI KMOX KFPY KLZ   WASC WSDD WADC WHAK WCOO WWW WNAC WSPD WADC WAL WSDD WOOD WSRC WASK WFPY WBBM KMOX KVI WSPD WADC WAL WSDD WSDC WSDD WOOD WSRC WASK WSDD WADC WSDD WSDC WSDD WADC WASK WSDD WOOD WSC WSDD WADC WSDD WSDC WSDD WSDD WSDC WSDD WOOD WSDC WSDD WSDC WSDD WSDD WSDC WSDD WSDD	10.00-10:45 The Manhatters	
10-30-11-90 Interior Decorating   WABC WCAO WINCK WEAN WAK   WABC WCAO WINCK WEAN WAK   WASO WSPD WHK WCAO WINCK WSPD WHK WSPD WHK WMAL WFBM WISN WFBL   WASO WSPD WHK WSPD WAK   WSPD WCAO WHK WCK WSPD WAL WRE WASO WSPD WAL WRE WASO WSPD WAL WRE WASO WSPD WANG WSPD	STATE TESTIFE STATES TO A T	EWE WEEN WLW KYW WIR
WMAL WFBM WBBM WISN WKRC  10.45-11:00 Mary Hale Martin WJZ WBZ WBZA WMC WSPD WHK WSPD WHK WWW WMAL WGL WSPD WHK WLSW WMAL WGL WSPD WHK WRSN KMBC KOIL WSPD WHK WRSN KMBC KOIL WSPD WHK WRSN WMAL WGL WSPD WHK WRSN WHAM KOKA WRSPD WHK WRSN WHAM KOKA WREAF WEEL WJAR WFBL WSB WHK WRSN WCKY WSB WSB WHS WJAX WHAS WMC WSB WHAM KWD WAL WREC WSB WHAM KWD WOO WAL WFBM WAAD WBBM WFBL WSPD WADC WAL WBBM WFBL WSPD WACK WADC WISN WDOD WABC WKOU WAAL WREC WSB WHK WCO WOW WAAK WAAL WREC WABC WKRC WADC WISN WDOD WABC WKRC WADC WISN WDOD WABC WKRC WADC WISN WADC WREC WDBJ WWNC KDYL WABC WKRO WAAN WHP WWNC WASD WHAM WOO WAAK WAAC WSB WHAM KOL WSPD WACK WISN WDOD WAS WRST WHS WWS WHS WSB WWAL WSPD WACK WFAN WJA WAAL WRED WHAM KOKA WRED WJAX WHAM WCKY WSB WST WJAX WHAM WAC WSB WSD WHK WREN WGK WSB WSB WSD WOCK WRC WJAX WMAC WSPD WACK WADC WSB WSB WFBL WJZ WBZ WJAX WAAK WARN WGK WSB WSB WSB WJAX WADC WGB WSB WSB WSD WJAX WADC WGW WAAK WGA WAAC WJAS WADC WGHP WAAC WSB WJAX WAAC WJAS WADC WGW WAAK WGA WAS WADC WGW WAAK WGA WAS WADC WGW WAAK WGA WGA WAS WADC WGW WAAK WGA WGA WAS WADC WGW WAAK WGA WGW WAAK WGA WGA WAS WADC WGW WAAK WGA WGA WAS WADC WGW WAAK WAS WADC WGW WAAK WAS WADC WGW WAAK WGA WAS WADC WGW WAAK WAS WADC WGW WAAK WAS WADC WGW WAAK WAA WAS WADC WGW WAAK WAS WADC WGW WAAK WAS WADC WGW WAAK WAS WADC	10:30-11:00 Interior Decorating	KFAB
WMAL WFBM WBBM WISN WKRC  10.45-11:00 Mary Hale Martin WJZ WBZ WBZA WMC WSPD WHK WSPD WHK WWW WMAL WGL WSPD WHK WLSW WMAL WGL WSPD WHK WRSN KMBC KOIL WSPD WHK WRSN KMBC KOIL WSPD WHK WRSN WMAL WGL WSPD WHK WRSN WHAM KOKA WRSPD WHK WRSN WHAM KOKA WREAF WEEL WJAR WFBL WSB WHK WRSN WCKY WSB WSB WHS WJAX WHAS WMC WSB WHAM KWD WAL WREC WSB WHAM KWD WOO WAL WFBM WAAD WBBM WFBL WSPD WADC WAL WBBM WFBL WSPD WACK WADC WISN WDOD WABC WKOU WAAL WREC WSB WHK WCO WOW WAAK WAAL WREC WABC WKRC WADC WISN WDOD WABC WKRC WADC WISN WDOD WABC WKRC WADC WISN WADC WREC WDBJ WWNC KDYL WABC WKRO WAAN WHP WWNC WASD WHAM WOO WAAK WAAC WSB WHAM KOL WSPD WACK WISN WDOD WAS WRST WHS WWS WHS WSB WWAL WSPD WACK WFAN WJA WAAL WRED WHAM KOKA WRED WJAX WHAM WCKY WSB WST WJAX WHAM WAC WSB WSD WHK WREN WGK WSB WSB WSD WOCK WRC WJAX WMAC WSPD WACK WADC WSB WSB WFBL WJZ WBZ WJAX WAAK WARN WGK WSB WSB WSB WJAX WADC WGB WSB WSB WSD WJAX WADC WGW WAAK WGA WAAC WJAS WADC WGHP WAAC WSB WJAX WAAC WJAS WADC WGW WAAK WGA WAS WADC WGW WAAK WGA WAS WADC WGW WAAK WGA WGA WAS WADC WGW WAAK WGA WGA WAS WADC WGW WAAK WGA WGW WAAK WGA WGA WAS WADC WGW WAAK WGA WGA WAS WADC WGW WAAK WAS WADC WGW WAAK WAS WADC WGW WAAK WGA WAS WADC WGW WAAK WAS WADC WGW WAAK WAS WADC WGW WAAK WAA WAS WADC WGW WAAK WAS WADC WGW WAAK WAS WADC WGW WAAK WAS WADC	WABC WCAU WNAC WEAN WMAK	9:00-9:30 MacFadden Red Seal Hour
WMAL WFBM WBBM WISN WKRC  10.45-11:00 Mary Hale Martin WJZ WBZ WBZA WMC WSPD WHK WSPD WHK WWW WMAL WGL WSPD WHK WLSW WMAL WGL WSPD WHK WRSN KMBC KOIL WSPD WHK WRSN KMBC KOIL WSPD WHK WRSN WMAL WGL WSPD WHK WRSN WHAM KOKA WRSPD WHK WRSN WHAM KOKA WREAF WEEL WJAR WFBL WSB WHK WRSN WCKY WSB WSB WHS WJAX WHAS WMC WSB WHAM KWD WAL WREC WSB WHAM KWD WOO WAL WFBM WAAD WBBM WFBL WSPD WADC WAL WBBM WFBL WSPD WACK WADC WISN WDOD WABC WKOU WAAL WREC WSB WHK WCO WOW WAAK WAAL WREC WABC WKRC WADC WISN WDOD WABC WKRC WADC WISN WDOD WABC WKRC WADC WISN WADC WREC WDBJ WWNC KDYL WABC WKRO WAAN WHP WWNC WASD WHAM WOO WAAK WAAC WSB WHAM KOL WSPD WACK WISN WDOD WAS WRST WHS WWS WHS WSB WWAL WSPD WACK WFAN WJA WAAL WRED WHAM KOKA WRED WJAX WHAM WCKY WSB WST WJAX WHAM WAC WSB WSD WHK WREN WGK WSB WSB WSD WOCK WRC WJAX WMAC WSPD WACK WADC WSB WSB WFBL WJZ WBZ WJAX WAAK WARN WGK WSB WSB WSB WJAX WADC WGB WSB WSB WSD WJAX WADC WGW WAAK WGA WAAC WJAS WADC WGHP WAAC WSB WJAX WAAC WJAS WADC WGW WAAK WGA WAS WADC WGW WAAK WGA WAS WADC WGW WAAK WGA WGA WAS WADC WGW WAAK WGA WGA WAS WADC WGW WAAK WGA WGW WAAK WGA WGA WAS WADC WGW WAAK WGA WGA WAS WADC WGW WAAK WAS WADC WGW WAAK WAS WADC WGW WAAK WGA WAS WADC WGW WAAK WAS WADC WGW WAAK WAS WADC WGW WAAK WAA WAS WADC WGW WAAK WAS WADC WGW WAAK WAS WADC WGW WAAK WAS WADC	WCAO WJAS WADC WGHP WOWO	WABC WCAU WNAC WKAN WIBL
WSAL WJZ WBZ WBZA WMC WSAM WSMB WSB WAPI WHAM KDKA WLW WWREN WHAS KFKX WBAL WJR 11:00-11:15 The Wissco Program WEAF WCSH 11:00-11:30 Milady's Mirror WABC WDDD WCAU WBBM WLBW WOWO WMAL WREC WWNC KFPY KLZ 3:30-4:00 Our Little Playhouse WABC WKRC WADC WISN WSPD WOWO WMAK WMAL WSPD WCOO WWW KFPY KLZ WABC WKRC WADC WOWO WGHP WABC WKRC WADC WOWO WGHP WABC WKRC WADC WWW WAC WSPD WDD WWNC KDYL KVI KMOX KFPY KLZ WABC WKRC WFAN KOIL WSPD WCOO WWW WWNC WKRC WFAN KOIL WSPD WCOO WWW WHAC WSPD WDD WWNC WWNC WKRC WDBJ WREC WDBJ WWAC WWDC WKRC WDBJ WWAC WWDC WKRC WDBJ WWAC WWDO WRAC WFAN KOIL WSPD WCOO WWW WMAC WSB WBT WJAX WOO WAAK WMAQ WREC WDBJ WWNC WWAAK WAQ WREC WDBJ WWNC WABC WKRC WJ S:00-7:30 Twilight Melodies WABC WKRC WWJ 7:00-7:30 Twilight Melodies WSP WBZ WBZA KDKA KWK KSTP WEBC WIS WJZ WBZ WBZ WBZA KDKA KWK WSB WBT WJAX WOO WKRC WSB WBT WJAX WOO WGHP WABC WCOO WWY WMAC WFBL WFM WMAC WFFW KLZ 7:00-7:30 Twilight Melodies WSP WBZ WBZA KDKA KWK WSP WSB WBT WJAX WOO WGKP WWAC WSP WBZ WBZA KDKA KWK WSB WBT WJAX KVOO WBAP WSB WBT WJAX KVOO WBAP WSB WBT WJAX KVOO WBAP WWCO KLZ KDYL KFRC KHJ WOOL WSB WBT WJAX KVOO WBAP WSB WBT WJAX KVOO WBAP WWNC WKRC WSB WSMB WSM WMC WSB WSMB WSM WMC WSB WSMB WSW WWCO WAS WMC WSB WBT WJAX KVOO WBAP WWW WWR KWK WREN WEBC WIS WBZ WBZA WDA WMAC WSB WBT WJAX KVOO WBAP WES WBZ WBZA KDKA KWK WSB WBT WJAX KVOO WBAP WWW WWR KWK WREN WBC WGW WWAN WWC WSB WBT WJAX KVOO WBAP WES WBZ WBZA KDKA KWK WKEN WWA WSB WMC WSB WBT WJAX KVOO WBAP WGW WWY WWA WWEN WSB WMC WGW WWW WWA WWEN WWCW WWA WWA WAC WGW WWA WSB WSMB WGW WWA WWA WWA WAC WGW WWA WAC W	KMOX KOIL WSPD WHK WLBW	WMAK WCAO WJAS WADC WKKC
WSAL WJZ WBZ WBZA WMC WSAM WSMB WSB WAPI WHAM KDKA WLW WWREN WHAS KFKX WBAL WJR 11:00-11:15 The Wissco Program WEAF WCSH 11:00-11:30 Milady's Mirror WABC WDDD WCAU WBBM WLBW WOWO WMAL WREC WWNC KFPY KLZ 3:30-4:00 Our Little Playhouse WABC WKRC WADC WISN WSPD WOWO WMAK WMAL WSPD WCOO WWW KFPY KLZ WABC WKRC WADC WOWO WGHP WABC WKRC WADC WOWO WGHP WABC WKRC WADC WWW WAC WSPD WDD WWNC KDYL KVI KMOX KFPY KLZ WABC WKRC WFAN KOIL WSPD WCOO WWW WWNC WKRC WFAN KOIL WSPD WCOO WWW WHAC WSPD WDD WWNC WWNC WKRC WDBJ WREC WDBJ WWAC WWDC WKRC WDBJ WWAC WWDC WKRC WDBJ WWAC WWDO WRAC WFAN KOIL WSPD WCOO WWW WMAC WSB WBT WJAX WOO WAAK WMAQ WREC WDBJ WWNC WWAAK WAQ WREC WDBJ WWNC WABC WKRC WJ S:00-7:30 Twilight Melodies WABC WKRC WWJ 7:00-7:30 Twilight Melodies WSP WBZ WBZA KDKA KWK KSTP WEBC WIS WJZ WBZ WBZ WBZA KDKA KWK WSB WBT WJAX WOO WKRC WSB WBT WJAX WOO WGHP WABC WCOO WWY WMAC WFBL WFM WMAC WFFW KLZ 7:00-7:30 Twilight Melodies WSP WBZ WBZA KDKA KWK WSP WSB WBT WJAX WOO WGKP WWAC WSP WBZ WBZA KDKA KWK WSB WBT WJAX KVOO WBAP WSB WBT WJAX KVOO WBAP WSB WBT WJAX KVOO WBAP WWCO KLZ KDYL KFRC KHJ WOOL WSB WBT WJAX KVOO WBAP WSB WBT WJAX KVOO WBAP WWNC WKRC WSB WSMB WSM WMC WSB WSMB WSM WMC WSB WSMB WSW WWCO WAS WMC WSB WBT WJAX KVOO WBAP WWW WWR KWK WREN WEBC WIS WBZ WBZA WDA WMAC WSB WBT WJAX KVOO WBAP WES WBZ WBZA KDKA KWK WSB WBT WJAX KVOO WBAP WWW WWR KWK WREN WBC WGW WWAN WWC WSB WBT WJAX KVOO WBAP WES WBZ WBZA KDKA KWK WKEN WWA WSB WMC WSB WBT WJAX KVOO WBAP WGW WWY WWA WWEN WSB WMC WGW WWW WWA WWEN WWCW WWA WWA WAC WGW WWA WSB WSMB WGW WWA WWA WWA WAC WGW WWA WAC W	WMAL WFBM WBBM WISN WFBL	WGHP WMAQ KMOX KMBC KOIL
WIZ WBZ WBZA WMC WJR	WKRC	
W\$M WSM WSB WSB WAPI WHAM KDKA WLW KWK WREN WHAM KDKA WLW KWK WREN WHAM KDKA WLW WARK WHAM KDKA WLW WARK WHAM KDKA WLW WARK WHAM KDKA WLW WARK WHAS KFKX WBAL WJR 11:00-11:15 The Wisseo Program WBAF WCAE WCSH 11:00-11:30 Milady's Mirror WABC WCDD WCAU WBM WABC WCDD WCAU WBM WWOW WMAL WREC WWNC KFPY KLZ 3:30-4:00 Our Little Playhouse WABC WKRC WADC WISN WCAU WFBM WCAO WCCO WSPD WOW WMAK WMAL WREC WDBJ WWNC KDYL KVI KMOX KFPY KLZ 4:30-5:15 Club Plaza Orchestra WABC WHK WCCO WCAO WISN WHP WWNC KOLL KVI KMOX KFPY KLZ WABC WHK WCCO WOWO WCAO WISN WHP WWNC WNAC WSPD WCO WMAL WDOD WSPD WAOC WMAL WDOD WSPD WAOC WMAL WDOD WSPD WAOC WMAL WDOD WSPD WAOC WMAL WOOD WSPD WAOC WMJ KOLL KVI KMOX KFPY KLZ WABC WKRO WSN WWOO WSPD WCO WWW WAAW WAS WSPD WCO WOW WAAW WSPD WCO WWW WAAW WSPD WCO WHK WCO WOW WAAK WSPD WCO WHK WCO WOW WAAK WSB WST WJAX WJIC WSAI KSD WOC WJAK WSB WST WJAX WSB WST WJAX WGN WSSMB WOC WOW WSAI WJIN WSAI KWC WSAI KSD WOC WWAA WSB WSAI WSAI WABC WSAI KSD WOC WWAA WSB WSAI WSAI WHAS WSMB WOC WJAX WSB WST WJAX WJAX WJAX WJAX WJAX WJAX WJAX WJAX	10:45-11:00 Mary Hale Martin	WIZ WRZ WRZA WHAM KDKA
WHAM KDKA WLW KWK WHAS KFKX WBAL WJR  11:00-11:15 The Wissco Program WEAF WCAE WLIT WGY WCSH WCSH WCSH WLIT WGY WCSH WCSH WLIT WGY WCSH WII:00-11:30 Milady's Mirror WABC WDOD WCAU WBBM WABC WDOD WCAU WBBM WABC WDOD WCAU WBBM WABC WKFPY KLZ  3:30-4:00 Our Little Playhouse WABC WKRC WADC WISN WCAU WFBM WCAO WCCO WFBL WSPD WOWO WMAK WMAL WREC WDBJ WWNC KDYL KVI KMOX KFPY KLZ WAAC WFAN KOIL KVI KMOX KFPY KLZ WAAC WFAN KOIL WSPD WOWO WMAK WMAL WREC WDBJ WWNC KOYL WSPD WOWO WMAK WMAL WREC WDBJ WWNC WNAC WSPD WOWO WMAK WMAL WREC WDBJ WWNC WNAC WSPD WADC WKRC WASH WCAO WISN WHP WWNC WNAC WSPD WADC WMAK WMAL WSPD WOWO WMAK WMAL WAGO WISN WHP WWNC WNAC WSPD WADC WKRC WISN WSPD WOWO WMAK WMAL WAGO WISN WHP WWNC WNAC WSPD WADC WKRC WISN WSPD WOOW WMAK WMAL WSPD WOWO WMAK WMAL WSPD WOWO WMAK WMAL WSPD WOWO WMAK WMAL WSPD WOWO WMAK WWAC WSPD WOWO WMAK WMAL WMAC WSB WST WJAX KVOO WSPD WOWO WMAK WMAC WSPD WOWO WMAK WMAL WMAC WSB WST WJAX KVOO WSPD WOWO WMAK WMAC WSPD WOOW WMAK WMAC WSPD WOOW WMAK WMAC WSPD WOOW WMAK WACO WSPD WOWO WMAK WMAC WSPD WOOW WMAK WACO WSPD WOOW WMAC WSB WST WJAX KVOO WSPD WOOW WMAC WSPD WOOW WAA WACO WSPR WSPD WOOW WMAC WAS WSPD WOOW WMAC WSPD	WSM WSMR WSR WAPI WIR	KYW KWK WREN WCKY
WHAS KFKX WBAL WJR  11:00-11:15 The Wissoc Program  WEAF WCAE WLIT WGY WCSH  11:00-11:30 Milady's Mirror WABC WDOD WCAU WBBM WFBL WLEW WOWO WMAL WREC WDBJ  3:30-4:00 Our Little Playhouse WABC WKRC WADC WISN WREC WDBJ WWNC KDYL KOIL WSPD WOWO WMAK WMAL WREC WDBJ WWNC KDYL KOIL WSPD WOWO WMAK WMAL WREC WDBJ WWNC KDYL KOIL WSPD WADC WMAL WNAC WREC WDBJ WWNC KDYL KOIL WSPD WADC WMAL WDDD WCAO WISN WHP WWNC WNAC WKRC WFAN KOIL KLZ KMBC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WREC WDBJ  5:00-5:30 Sky Sketches WEAF WRC WJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKAC WWJ WCSH 6:00-7:30 Family Goes Abroad WEAF WRC WWJ WCAE WBAY WAAW WAAWAQ WREC WDBJ T:00-7:30 Family Goes Abroad WEAF WRC WWJ WZ WBZ WBZA KDKA KSTP WBBC WLS WJZ WBZ WBZA KDKA KWK WREN WJZ WHAM KDKA KWK WREN WJZ WHAM KDKA WKW WJ WSM WMC WSB WSM WMC WSB WSM WMC WSB WSMB KVOO KPRC WMAK WCAO WJAS WADC WCAU WMAK WCAO WJAS WADC WGAP WAAW WAAW WAAW WMAW WAAW WAAW WAAW WAAW WAAW	WHAM KOKA WLW KWK WREN	9-00-9-30 Halsey Stuart Program
WEAF WCAE WLIT WGY WTAG WEAF WCAE WLIT WGY WTAG WEAF WCAE WLIT WGY WTAG WCSH  11:00-11:30 Milady's Mirror WABC WDOD WCAU WBBM WFBL WLBW WOWO WMAL WREC WDBJ WWNC KFPY KLZ  3:30-4:00 Our Little Playhouse WABC WKRC WADC WISN WDOD WCAU WFBM WCAO WCCO WFBL WSPD WOWO WMAK WMAL WSPD WOWO WMAK WMAL WSPD WOWO WMAK WMAL WSPD WWNC KDYL KOIL KVI KMOX KFPY KLZ  4:30-5:15 Club Plaza Orchestra WABC WKR WCO WOWO WBRC WARC WAD WISN WPD WWNC WNAC WKRC WAD WISN WPD WWNC WNAC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WREC WDBJ 5:00-5:30 Sky Sketches WEAF WRC WWJ WSH WCAO WBBM WIAS WLBW WCAO WBBM WIAS WLBW WMAK WAOO WBBM WIAS WLBW WMAK WAOO WBBM WIAS WLBW WMAK WMAQ WREC WDBJ KVI KFPY KLZ  7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WCAE WISN WMC WEAF WRC WWJ WSM T-7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK WSTP WEBC WLS WJR T-7:00-7:30 Twilight Melodies WJZ WBZ WBZA WHAM KDKA WSAI KSD WOC WOW WASH WMAK WCO WJAS WADC WMAK WCO WJAS WADC WMAK WCO WJAS WADC WMAK WCO WHA WWJ WSAI WSAI KSD WOC WOW WSBM WADC WSMB KVOO KPRC WAD WAD WAD WAD WAD WADC WMAK WCO WJAS WADC WMAK WCO WJAS WSM WMC WSB-WADC WCAU WNAC WBAN WJBW WWAC WSH WEBT WJAX KVOO WFBM WCSH WKRC WJSN WDOD WHAM WSM WADC WSB WBT WJAX KVOO WFAA WGR WEAF WEBI WTIC WGY WGR WGN WGR WGN WGN WGN WSB WBT WJAX KVOO WFAA WGN WOO WWA WAD WOO WFAA WGN WOO WWA WAD WOO WFAA WGN WAC WSAN WMC WSB WSMB WT WJAX KVOO WHAA WREN WASH KYOO WKY WOAI KOA KFAB WCC KLZ KDYL KFRC KHJ WEBC WIOD WHAS WSM WMC WSB WST WJAX KVOO WBAP WASH WCO WKY WOAI KOA KFAB WCC KLZ KDYL KFRC KHJ WEAF WEBI WTIC WGAW WGN WGR WGN WGR WSAI KOO WGAW WABC WCAU WNAC WBAN WJSAI WEAF WEBI WTIC WGAW WGR WSAI WADC WABC WAW WWOO WMAK WAD WAD WASH WCC WOO WWA WAD WASH WCC WOO WWA WAD WASH WCO WHA WWAC WABC WAW WOO KMOX KMBC WASH WEAF WEBI WTIC WGAW WGR WSAI KOO WHA WWAC WABC WAW WWO WAD WASH WOO WAA WOO WAA WAD WASH WCC WOO WWA WAD WASH WCO WHA WSAI WASH WEAF WEBI WTIC WGAW WGR WSAI KOO WHA WSM WAD WASH WAC WOO WHA WSAI WASH WEAF WEBI WTIC WGAW WGN WASH WAD WASH WOO WOO KMC WGN WGR WASH WASH WOO WASH WASH WASH WAD WASH WASH	WHAS KRKY WRAI. WIR	WEAF WEEL WJAR WTAG WCSH
WCSH  11:00-11:30 Milady's Mirror  WABC WADC WOWO WMAL WREC WDBJ  WWNC KFPY KLZ  3:30-4:00 Our Little Playhouse WEAF WRC WADC WISN WREC WDBJ WWNC KDYL KOIL WSPD WOWO WMAK WALD WMAQ WREC WDBJ WWNC KDYL KOIL KVI KMOX KFPY KLZ  4:30-5:15 Club Plaza Orchestra WABC WKRC WADC WWOWO WKRC WFAN KOIL KLZ KMBC WKRC WFAN KOIL KLZ KMBC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WREC WDBJ  5:00-5:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WMAK WMAQ WREC WDBJ WMAK WMAQ WREC WDBJ WMAK WMAQ WREC WDBJ WMAK WMAQ WREC WDBJ  7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMAK WMAQ WREC WDBJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WJR WYMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO WFI KHQ KPRC WFAA KSTP  TEACH CHOR WAS WEBN WEBN WACKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WABC WKRN WKRN WEBN WEBN WACKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WABC WHK WLAC WCCO WGHP WABC WCAU WNAC WEAN WFBL WSB WBT WJAX KVOO WBAP WACO WJAS WADC WGHP WABC WCAU WNAC WGHP WABC WCAU WNAC WGHP WABC WCAU WNAC WGHP WCAO WBBW WJAS WMC WSB WBT WJAX WOO WJAS WADC WGHP WMAQ WOWO KMOX KMBC WGHP WAAW WAAD WOO WHAS WSM WMC WSPD WCCO KLZ KDYL KFRC KHJ WCSH WLITI WRC WGY WGHP WABC WCAU WNAC WEAN WFBL WGSH WFIC WGHP WABC WCAU WNAC WEAN WFBL WGSH WTIC WJAS WADC WGHP WABC WCAU WNAC WGHP WCAO WHK WJAX WOO WAAP WAS WSM WMC WSB WSMB WMC WSB WBT WJAX KVOO WBAP WSB WBT WJAX KVOO WBAP WAPI 10:30-11:00 11 a Russian Village WAPI 10:30-11:00 11 a Russian Village WABC WHK WLAC WCCO WGHP WABC WCAU WINN WWIN WKBN WLBW	11:00-11:15 The Wissco Program	WLIT WRC WGY WCAE WWJ
WCSH  11:00-11:30 Milady's Mirror  WABC WADC WOWO WMAL WREC WDBJ  WWNC KFPY KLZ  3:30-4:00 Our Little Playhouse WEAF WRC WADC WISN WREC WDBJ WWNC KDYL KOIL WSPD WOWO WMAK WALD WMAQ WREC WDBJ WWNC KDYL KOIL KVI KMOX KFPY KLZ  4:30-5:15 Club Plaza Orchestra WABC WKRC WADC WWOWO WKRC WFAN KOIL KLZ KMBC WKRC WFAN KOIL KLZ KMBC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WREC WDBJ  5:00-5:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WMAK WMAQ WREC WDBJ WMAK WMAQ WREC WDBJ WMAK WMAQ WREC WDBJ WMAK WMAQ WREC WDBJ  7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMAK WMAQ WREC WDBJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WJR WYMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO WFI KHQ KPRC WFAA KSTP  TEACH CHOR WAS WEBN WEBN WACKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WABC WKRN WKRN WEBN WEBN WACKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WABC WHK WLAC WCCO WGHP WABC WCAU WNAC WEAN WFBL WSB WBT WJAX KVOO WBAP WACO WJAS WADC WGHP WABC WCAU WNAC WGHP WABC WCAU WNAC WGHP WABC WCAU WNAC WGHP WCAO WBBW WJAS WMC WSB WBT WJAX WOO WJAS WADC WGHP WMAQ WOWO KMOX KMBC WGHP WAAW WAAD WOO WHAS WSM WMC WSPD WCCO KLZ KDYL KFRC KHJ WCSH WLITI WRC WGY WGHP WABC WCAU WNAC WEAN WFBL WGSH WFIC WGHP WABC WCAU WNAC WEAN WFBL WGSH WTIC WJAS WADC WGHP WABC WCAU WNAC WGHP WCAO WHK WJAX WOO WAAP WAS WSM WMC WSB WSMB WMC WSB WBT WJAX KVOO WBAP WSB WBT WJAX KVOO WBAP WAPI 10:30-11:00 11 a Russian Village WAPI 10:30-11:00 11 a Russian Village WABC WHK WLAC WCCO WGHP WABC WCAU WINN WWIN WKBN WLBW	WEAF WCAE WLIT WGY WTAG	
WABC WDOD WCAU WBBM WFBL WLBW WOWO WMAL WREC WDBJ 3:30-4:00 Our Little Playhouse WABC WKRC WADC WISN WDOD WCAU WFBM WCAO WCCO WFBL WSPD WOWO WMAK WMAL WMAQ WREC WDBJ WWNC KDYL KOIL KVI KMOX KFPY KLZ WLAC 4:30-5:15 Club Plaza Orchestra WABC WKRC WFAN KOIL KLZ WAC WREC WDBJ WWNC WNAC WSPD WADC WMAL WDOD WBRC WSPD WADC WMAL WDOD WBRC WSPD WADC WMAL WDOD WBRC WREC WDBJ 5:00-5:30 Sky Sketches WABC WKRC WISN WDOD WEBM WCAO WCSO WWSPD WADC WWIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WJJ WSM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WR WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WR KSTP WEBC WLS WR WASC WHAM KDKA WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCXY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WABC WHK WLAC WCCO WGHP WABC WISN WKC WGN WFAA KSTP WEGO KOMO KHQ WFAA WFBL WABC WCAU WNAC WEAN WFBL WGR WADC WWW WAAL WGN WGR WABC WALW WWJ WAAL WTAG WABC WALW WWJ WAAL WTAG WCSH WLIT WRC WGY WGR WABC WCAU WNAC WGY WGR WABC WAMK WCAO WJAS WAMC WGR WAS WGN WAC WGAW WWJ WAAL WTAG WCSH WLIT WRC WGY WGR WABC WCAU WNAC WEAN WSM WMC WGWAK WCAO WJAS WAOC WGAW WWJ WAAL WWJ WAAL WWJ WAAL WAAL WAAL	WCSH	
WSPD WOWO WMAK WMAL WMAQ WREC WDBJ WWNC KDYL KOIL KVI KMOX KFPY KLZ WLAC 4:30-5:15 Club Plaza Orchestra WABC WKK WCO WOWO WGHP WCAO WISN WHP WWNC WNAC WSPD WADC WMAL WDOD WBRC WSPD WADC WMAL WDOD WBRC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WEAF WRC WBJ WCSH 6:30-7:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMC XSPD WAAW WAAW WAAW WAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA KDKA KWK WYZ WBZ WBZA WHAM KDKA KYW WR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCXY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WABC WISN WKRC WSSH WBT WJAX KVOO WBAP KPRC WOAI WKY KOA KSL WPC WOAI WKY KOA WEN WMC WABC WISN WKRC WABC WISN WTM WAC WCW WGHP WABC WKR WARN WEN WLBW	11:00-11:30 Milady's Mirror	WSMB KVOO KPRC WOAI KOA
WSPD WOWO WMAK WMAL WMAQ WREC WDBJ WWNC KDYL KOIL KVI KMOX KFPY KLZ WLAC 4:30-5:15 Club Plaza Orchestra WABC WKK WCO WOWO WGHP WCAO WISN WHP WWNC WNAC WSPD WADC WMAL WDOD WBRC WSPD WADC WMAL WDOD WBRC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WEAF WRC WBJ WCSH 6:30-7:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMC XSPD WAAW WAAW WAAW WAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA KDKA KWK WYZ WBZ WBZA WHAM KDKA KYW WR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCXY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WABC WISN WKRC WSSH WBT WJAX KVOO WBAP KPRC WOAI WKY KOA KSL WPC WOAI WKY KOA WEN WMC WABC WISN WKRC WABC WISN WTM WAC WCW WGHP WABC WKR WARN WEN WLBW	WABC WOOD WCAU WBBM WFBL	KGO KOMO KHO KGW KFI
WSPD WOWO WMAK WMAL WMAQ WREC WDBJ WWNC KDYL KOIL KVI KMOX KFPY KLZ WLAC 4:30-5:15 Club Plaza Orchestra WABC WKK WCO WOWO WGHP WCAO WISN WHP WWNC WNAC WSPD WADC WMAL WDOD WBRC WSPD WADC WMAL WDOD WBRC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WEAF WRC WBJ WCSH 6:30-7:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMC XSPD WAAW WAAW WAAW WAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA KDKA KWK WYZ WBZ WBZA WHAM KDKA KYW WR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCXY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WABC WISN WKRC WSSH WBT WJAX KVOO WBAP KPRC WOAI WKY KOA KSL WPC WOAI WKY KOA WEN WMC WABC WISN WKRC WABC WISN WTM WAC WCW WGHP WABC WKR WARN WEN WLBW	WLBW WOWO WMAL WREC WDBJ	WARC WCAII WNAC WRAN WFBL
WSPD WOWO WMAK WMAL WMAQ WREC WDBJ WWNC KDYL KOIL KVI KMOX KFPY KLZ WLAC 4:30-5:15 Club Plaza Orchestra WABC WKK WCO WOWO WGHP WCAO WISN WHP WWNC WNAC WSPD WADC WMAL WDOD WBRC WSPD WADC WMAL WDOD WBRC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WEAF WRC WBJ WCSH 6:30-7:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMC XSPD WAAW WAAW WAAW WAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA KDKA KWK WYZ WBZ WBZA WHAM KDKA KYW WR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCXY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WABC WISN WKRC WSSH WBT WJAX KVOO WBAP KPRC WOAI WKY KOA KSL WPC WOAI WKY KOA WEN WMC WABC WISN WKRC WABC WISN WTM WAC WCW WGHP WABC WKR WARN WEN WLBW	2 30 4 00 Over Little Blowbours	WMAK WCAO WIAS WADC WGHP
WSPD WOWO WMAK WMAL WMAQ WREC WDBJ WWNC KDYL KOIL KVI KMOX KFPY KLZ WLAC 4:30-5:15 Club Plaza Orchestra WABC WKK WCO WOWO WGHP WCAO WISN WHP WWNC WNAC WSPD WADC WMAL WDOD WBRC WSPD WADC WMAL WDOD WBRC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WEAF WRC WBJ WCSH 6:30-7:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMC XSPD WAAW WAAW WAAW WAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA KDKA KWK WYZ WBZ WBZA WHAM KDKA KYW WR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCXY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WABC WISN WKRC WSSH WBT WJAX KVOO WBAP KPRC WOAI WKY KOA KSL WPC WOAI WKY KOA WEN WMC WABC WISN WKRC WABC WISN WTM WAC WCW WGHP WABC WKR WARN WEN WLBW	WARC WERC WARC WISN WOOD	WMAO WOWO KMOX KMBC KOIL
WSPD WOWO WMAK WMAL WMAQ WREC WDBJ WWNC KDYL KOIL KVI KMOX KFPY KLZ WLAC 4:30-5:15 Club Plaza Orchestra WABC WKK WCO WOWO WGHP WCAO WISN WHP WWNC WNAC WSPD WADC WMAL WDOD WBRC WSPD WADC WMAL WDOD WBRC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WEAF WRC WBJ WCSH 6:30-7:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMC XSPD WAAW WAAW WAAW WAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA KDKA KWK WYZ WBZ WBZA WHAM KDKA KYW WR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCXY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WABC WISN WKRC WSSH WBT WJAX KVOO WBAP KPRC WOAI WKY KOA KSL WPC WOAI WKY KOA WEN WMC WABC WISN WKRC WABC WISN WTM WAC WCW WGHP WABC WKR WARN WEN WLBW	WCAU WERM WCAO WCCO WEBL	WSPD WCCO WHK WLBW WMAL
4:30-5:15 Club Plaza Orchestra WABC WHK WCCO WOWO WGHP WCAO WISN WHP WWNC WNAC WSPD WADC WMAL WDOD WBRC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WREC WDBJ  5:00-5:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WJR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WJZ WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WKYA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCAO WJAS WADC WKY WAMK WCAO WJAS WADC WKR WJZ WBZ WBZA KDKA KWK WJZ WBZ WBZA KDKA KWK WJZ WBZ WBZA KDKA KWK WJZ WBZ WBZA KDKA KYW WJZ WBZ WBZA KDKA WREN WJZ WWZN WKRN WLBW	WSPD WOWO WMAK WMAL WMAO	WISN WKRC
4:30-5:15 Club Plaza Orchestra WABC WHK WCCO WOWO WGHP WCAO WISN WHP WWNC WNAC WSPD WADC WMAL WDOD WBRC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WREC WDBJ  5:00-5:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WJR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WJZ WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WKYA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCAO WJAS WADC WKY WAMK WCAO WJAS WADC WKR WJZ WBZ WBZA KDKA KWK WJZ WBZ WBZA KDKA KWK WJZ WBZ WBZA KDKA KWK WJZ WBZ WBZA KDKA KYW WJZ WBZ WBZA KDKA WREN WJZ WWZN WKRN WLBW	WREC WDBI WWNC KDYL KOIL	9:30-10:30 Palmolive Hour
4:30-5:15 Club Plaza Orchestra WABC WHK WCCO WOWO WGHP WCAO WISN WHP WWNC WNAC WSPD WADC WMAL WDOD WBRC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WREC WDBJ  5:00-5:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WJR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WJZ WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WKYA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCAO WJAS WADC WKY WAMK WCAO WJAS WADC WKR WJZ WBZ WBZA KDKA KWK WJZ WBZ WBZA KDKA KWK WJZ WBZ WBZA KDKA KWK WJZ WBZ WBZA KDKA KYW WJZ WBZ WBZA KDKA WREN WJZ WWZN WKRN WLBW	KVI KMOX KFPY KLZ WLAC	WEAF WEEL WTIC WIAR WTAG
WCAO WISN WHP WWNC WNAC WSDD WADC WMAL WODD WBRC WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WREC WDBJ  5:00-5:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMC 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WJR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA KDKA KWK WJZ WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WOAL KOAK KSL KPO KGO KFI KGW KOMO KHQ WFAA WCCO KLZ KDYL KFRC KOIN KVI KFPY CJGC 10:00-10:30 Neapolitan Nights WJZ WBZ WBZA KDKA KWK WJZ WJZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WSB WBT WJAX KVOO WKY WMAC WSB WSM WMC WJAX KVOO WASH WMC WSB WSM WMC WJAX WOOD WHAS WSM WMC WSB WBT WJAX KVOO WBAP KPC WOAI WKY KOA KSL KPW WABC WISN WWNC WSB WSMB KWW WJAX WJOD WABC WKY WHAM WSMB KTHS	4:30-5:15 Club Plaza Orchestra	WCSH WLIT WRC WGY WGR
WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WREC WDBJ  5:00-5:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WIZ WBZ WBZA KDKA KWK KSTP WEBC WLS WR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA KDKA KWK WYW WR KWK WREN WEBC WYVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP  WABB WBT WJAX KVOO KPRC WWAA KOAO WJAS KOMO WKPL WAAM WCAO WJAS WADC WKAY WOAI KOA KWK WREN WRVA KYFW WBE WIZ WBZA KDKA KWK WREN WRVA KYFW WSB WBT WJAX KVOO WBAP KPRC WOAI WKY KOA KSL KPI KGW KOMO WIAS WSM WMC WABC WISN WWKN WLBN WLBN WWNC WKRN WLBN WLBW	WABC WHK WCCO WOWO WGHP	WCAE WTAM WWJ WSAI WGN
WKRC WFAN KOIL KLZ KMBC WMAK KFPY WBBM KMOX KVI WREC WDBJ  5:00-5:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WIZ WBZ WBZA KDKA KWK KSTP WEBC WLS WR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA KDKA KWK WYW WR KWK WREN WEBC WYVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP  WABB WBT WJAX KVOO KPRC WWAA KOAO WJAS KOMO WKPL WAAM WCAO WJAS WADC WKAY WOAI KOA KWK WREN WRVA KYFW WBE WIZ WBZA KDKA KWK WREN WRVA KYFW WSB WBT WJAX KVOO WBAP KPRC WOAI WKY KOA KSL KPI KGW KOMO WIAS WSM WMC WABC WISN WWKN WLBN WLBN WWNC WKRN WLBN WLBW	WCAO WISN WHP WWNC WNAC	KSD WOC WOW WDAF WSME
WMAK KFPY WBBM KMOX KVI WREC WDBJ  5:00-5:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMC 7:00-7:30 Twillight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WJR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WJZ WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP  WMAK WCAO WJAS WADC WBAD WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP  WABC WCAU WNAC WBAN WFBL WCAU WJAS WSM WMC WSB WBT WJAX KVOO WBAP KPRC WOAI WKY KOA KSL KPO KGW KOMO KHQ WFAA WABC WKAN KOMO KHQ WFAA WABC WHK WLBN WFBL WCAU WJAS WSM WMC WSB WBT WJAX KVOO WBAP KPRC WOAI WKY KOA KSL KPO KGW KOMO KHQ WFAA WABC WHK WLAC WCCO WGHP		WSB WRT WIAX KVOO KPRC
WREC WDBJ 5:00-5:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WIAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMC 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WJR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA KDKA KWK WYW WJR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP  WABC WKSN WHAM WSMB WTHS WAC WHAM WAC WCC WGHP	WARU WIAN KUIL KLZ KMBU	WOAL KOA KSL KPO KGO
5:00-5:30 Sky Sketches WEAF WRC WWJ WCSH 6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ 7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WZ WBZ WBZA KDKA KWK KSTP WEBC WLS WJR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP  10:00-10:30 Kolster Radio Hour WABC WCAU WAAC WEAN WFBL WMAK WCAU WJAS WADC WKRC WMAK WCAU WJAS WADC WKMC KMBC WABC WHAM WCAU WBAN WFBL WCAU WJAS WSM WMC WSB WBT WJAX KVOO WBAP KPRC WOAI WKY KOA KSL KPRC WOAI WKY WHAM WSMB KTHS WABC WHAN WEAN WFBL WABC WCAU WAAC WEAN WFBL WABC WHAN WCAU WBAN WFBL WABC WCAU WAAC WEAN WFBL WABC WCAU WAAC WEAN WFBL WABC WCAU WAAC WEAN WFBL WABC WCAU WAAC WCAU WBAN WABC WHAN WCAU WJAS WADC WABC WHAN WCAU WJAS	WORK WORL	KRI KOW KOMO KHO WYAA
WEAF WRC WWJ WCSH  6:30-7:00 Guy Lombardo's Orchestra WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WOWO WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ  7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMC 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WJR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA WYW WJR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO WFI KHQ KPRC WFAA KSTP  **WABC WCAO WJAS WADC WKRC WMAK WCAO WJAS WADC WKRC WGHP WMAQ WOWO KMOX KMBC WGHP WMAC WOAD WARD WCCO KLZ KDYL KFRC KHJ WCO KLZ KDYL KFRC KHJ WARC WCAO WARC WRAN WRD W	5:00-5:30 Sky Sketches	10-00-10-30 Kolster Radio Hour
WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ  7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMC 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WR WTMJ  7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP  **RESTRICT OF THE RESTRICT OF	WEAR WOO WWI WOSH	WABC WCAU WNAC WEAN WFBL
WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ  7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMC 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WR WTMJ  7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP  **RESTRICT OF THE RESTRICT OF		WMAK WCAO WJAS WADC WKRC
WMAK WMAQ WREC WDBJ WWNC KVI KFPY KLZ  7:00-7:30 Family Goes Abroad WEAF WRC WWJ WSM WMC 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WR WTMJ  7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP  **RESTRICT OF THE RESTRICT OF	WABC WKRC WISN WDOD WFBM	WGHP WMAQ WOWO KMOX KMBC
WEAF WRC WWJ WSM WMC 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WJR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA KYW WJR WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WAND WHAM WSM WHAM WSM WHAM WHAS WSM WMC WSB WSMB KYOO WKY WOAI KOA KFAB WAFI 10:30-11:00 Stromberg-Carlson Program WBZ WBZA KDKA KYW WREN WRVA WREN WTMJ WBZ WBZA KDKA KYW WREN WRO WHAS WSM WMC WSB WBT WJAX KVOO WBAP KFI KGW KOMO KHQ WJR WHAM WSMB KTHS WAFI 10:30-11:00 Stromberg-Carlson Program WBZ WBZA KDKA KYW WREN WRVA WFI WHAM KDKA WREN WCKY	WCAO WBBM WJAS WLBW WOWO	KOIL WSPD WHK WLBW WMAL
WEAF WRC WWJ WSM WMC 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WJR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA KYW WJR WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WAND WHAM WSM WHAM WSM WHAM WEBC WHAM KDKA WREN WCY WBZ WBZA KDKA KYW WBEN WRVA WFO WTA WTM WBC WHAM WSM WTM WHAM WSM WTM KYW WAN WHAM WSM WTH WAS WHAM WSM WTH WAS WHAM WSM WHAM WSM WTH WAS WHAM WSM WHAM WSM WTH WAS WHAM WSM WHAW WSM WHAW WWIN WWN WKN WLBW	WMAK WMAQ WREC WDBJ WWNC	WCCO KLZ KDYL KFRC KHJ
WEAF WRC WWJ WSM WMC 7:00-7:30 Twilight Melodies WJZ WBZ WBZA KDKA KWK KSTP WEBC WLS WJR WTMJ 7:30-8:00 Westinghouse Salute WJZ WBZ WBZA WHAM KDKA KYW WJR WBZ WBZA WHAM KDKA KYW WJR KWK WREN WEBC WRVA WPTF WBT WJAX WIOD WHAS WSM WMC WSB WSMB KVOO WKY WOAI KOA KFAB WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP WAND WHAM WSM WHAM WSM WHAM WEBC WHAM KDKA WREN WCY WBZ WBZA KDKA KYW WBEN WRVA WFO WTA WTM WBC WHAM WSM WTM WHAM WSM WTM KYW WAN WHAM WSM WTH WAS WHAM WSM WTH WAS WHAM WSM WHAM WSM WTH WAS WHAM WSM WHAM WSM WTH WAS WHAM WSM WHAW WSM WHAW WWIN WWN WKN WLBW		KOIN KVI KFPY CJGC
7:00-7:30 Twilight Melodies  W1Z W8Z W8ZA KDKA KWK  KSTP WEBC WLS WJR WTMJ  7:30-8:00 Westinghouse Salute  WJZ W8Z W8ZA WHAM KDKA  KYW WJR KWK WREN WBC  WRVA WPTF WBT WJAX WIOD  WHAS WSM WMC WSB WSMB  KVOO WKY WOAI KOA KFAB  WCKY KSL KGO KGW KOMO  KFI KHO KPRC WFAA KSTP  WAS WAS WBZ WBZA WTMJ  WEBC WIOD WHAS WSM WMC  WSB WSB WBT WJAX KVOO WBAP  KPO KGO KFI KGW KOMO  KHO WJR WHAM WSMB KTHS  WAPI  10:30-11:00 Stromberg-Carison Frogram  WBZ WBZA KDKA KYW  WEBC WIOD WHAS WSM WMC  WSB WSB WST WJAX KVOO WBAP  KPO KGO KFI KGW KOMO  KHO WJR WHAM WSMB KTHS  WAPI  10:30-11:00 Stromberg-Carison Frogram  WBZ WBZA KDKA KYW  WEBC WIOD WHAS WSM WMC  WSB WBT WJAX KVOO WBAP  KPO KGO KFI KGW KOMO  KHO WJR WHAM WSMB KTHS  WAPI  10:30-11:00 Stromberg-Carison Frogram  WBZ WBZ KDKA KYW  WEBC WIOD WHAS WSM WMC  WSB WBT WJAX KVOO WBAP  KPO KGO KFI KGW KOMO  KHO WJR WHAM WSMB KTHS  WAPI  10:30-11:00 Stromberg-Carison Frogram  WBZ WBZ WBZA KDKA KYW  WEBC WIOD WHAS WSM WMC  WSB WBT WJAX KVOO WBAP  KPO KGO KFI KGW KOMO  KHO WJR WHAM WSMB KTHS  WAPI  WWEC WIND WWWN WKRN WLBW	7:00-7:30 Family Goes Abroad	10:00-10:30 Neapontan Nights
KSTP WEBC WLS WJR WTMJ	7.00 7.20 Twitisht Moledine	10:30-11:00 Strombero-Carlson Program
KSTP WEBC WLS WJR WTMJ	WIT WRZ WRZA KOKA KWK	WIZ WBZ WBZA KDKA KYW
7:30-8:00 Westinghouse Salute  WJZ WBZ WBZA WHAM KDKA  KYW WJR KWK WREN WEBC  WRVA WPTF WBT WJAX WIOD  WHAS WSM WMC WSB WSMB  KVOO WKY WOAI KOA KFAB  WCKY KSL KGO KGW KOMO  WKY KSL KGO KGW KOMO  KFI KHQ KPRC WFAA KSTP  WAS WHAM WSMB KTHS  WAPT  10:30-11:00 In a Russian Village  WAS WHAM WAS WSM  WAPT  10:30-11:00 In a Russian Village  WAS WHAW WAS WHAW WLAC WCCO WGHP	KSTP WERC WIS WIR WIMI	KWK WREN WRVA KSIP WIMJ
WJZ	7.20 8.00 Wastinghouse Salute	WEBC WIOD WHAS WSM WMC
WHAS WSM WMC WSB WSMB KHQ WJR WHAM WSMB K135  KVOO WKY WOAI KOA KFAB WAPI  WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP  WASC WISN WWNC WKRN WLBW	WIZ WBZ WBZA WHAM KDKA	WSB WBT WJAX KVOO WBAP
WHAS WSM WMC WSB WSMB KHQ WJR WHAM WSMB K135  KVOO WKY WOAI KOA KFAB WAPI  WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP  WASC WISN WWNC WKRN WLBW	KÝW WJR KWK WREN WEBC	
WHAS WSM WMC WSB WSMB KHQ WJR WHAM WSMB K135  KVOO WKY WOAI KOA KFAB WAPI  WCKY KSL KGO KGW KOMO KFI KHQ KPRC WFAA KSTP  WASC WISN WWNC WKRN WLBW	WRVA WPTF WBT WJAX WIOD	KPO KGO KFI KGW KUMU
KVOO WKY WOAI KOA KFAB WAPI WCKY KSL KGO KGW KOMO 10:30-11:00 In a Russian Village KFI KHO KPRC WFAA KSTP WABC WHK WLAC WCCO WGHP	WHAS WSM WMC WSB WSMB	
KFI KHO KPRC WFAA KSTP WABC WHK WLAC WCO WIN	KVOO WKY WOAI KOA KFAB	WADI
WCAO WISH WWNC WKRN WLBW	WCKY KSL KGO KGW KOMO	10:50-11:00 in a Russian Village
WEAF WCSH WTAG WWJ WGR WNAC WEAN WSPD WADC WMAQ		WCAO WISH WWNC WKRN WLBW
WEAR WOLL WING WAY WAR WIND WELL WAS TO THE TOTAL WAY	WEAR WOSH WTAG WWI WOR	WNAC WEAN WSPD WADC WMAQ
	Wall Wool Wills Will Wall	

WMAL WDOD WFBM WBRC WJAS WKRC WCAU KOIL KLZ KDYL WMAK KMOX KVI WREC WDBJ	8:15-8:30 "The Political Situation"
WKRC WCAU KOIL KLZ KĎYL WMAK KMOX KVI WREC WDBJ	WABC WHK WKRC WADC WISN WDOD WFAN WCAO WCCO WFBL
	WDOD WFAN WCAO WCCO WFBL WSPD WJAS WLBW WOWO WKBW
11:00-12:00 Show Boat WABC WHK WKRC WISN WDOD	WNAC WEAN WMAL WMAQ WREC
WCAU WCAO WCCO WGHP WFBL	WDBJ WWNC KOIL KVI KMOX
WSPD WJAS WLBW WMAK WNAC	KFPY KFH KLZ WLAC WFBM
WEAN WMAL WMAQ WREC WDBJ	8:30-9:00 Champion Sparkers
WEAN WMAL WMAQ WREC WDBJ WWNC KOIL KVI KFPY KFH	8:30-9:00 Champion Sparkers WJZ WBZ WBZA WBAL WHAM
KLZ	KDKA WLW WLS KWK WREN
11:30-12:00 Phil Spitalny's Music	WJR KFAB
WEAF WWJ KSD WEBC WOW	8:30-9:00 Columbians
<b>(T)</b> 1	WABC WGHP WCAO WISN WWNC
Thursday	WKBN WLBW WNAC WEAN WSPD
9 30-10:00 Something Else	WADC WDOD WBRC WJAS WKRC KFH KOIL KLZ KDYL WKBW
WARC WHK WOOD WERL WIRW	KFH KOIL KLZ KĎYL WKBW KFPY KMOX KVI WAIU WREC
WOWO WKBW WMAL WREC WDBJ	WDBJ WALL WALL WALL
WWNC KDYL KOIL KVI KMOX	9:00-9:30 True Detective Mysteries
WLAC	WABC WCAU WNAC WEAN WFBL
10:30-11:30 Morning Merrymakers WABC WHK WADC WDOD WCAU	WABC WCAU WNAC WEAN WFBL WKBW WCAO WJAS KMOX KOIL
WABC WHK WADC WDOD WCAU	WLBW WMAL WSPD WHK WADC
WCAO WGHP WBBM WFBL WLBW WOWO WKBW WMAL WREC WDBJ	WGHP WBBM WOWO WFBM WKRC
WOWO WKBW WMAL WREC WDBJ WWNC KMBC KOIL KVI KFPY	WISN WCCO WHEC
KLZ WLAC	9:00-9:30 Seiberling Singers
11:00-11:15 "Your Child"	WEAF WEEL WIAR WTAG WCSH
WEAF WTAG WJAR WRC WGY	WFI WRC WGY WGR WCAE WTAM WWJ WSAI KYW KSD
WCAE KSD WOC KSTP WBT	WTAM WWJ WSAI KYW KSD WHO WOW WDAF WFIC
WJAX WSM KVOO KPRC WKY	9:30-10:00 Jack Frost's Melody Moments
11:30-11:45 Du Barry Beauty Talk	WEAF WJAR WTAG WCSH WFI
11:30-11:45 Du Barry Beauty Talk WABC WCAU WNAC WEAN WFBL	WRC WGY WGR WCAE WWI
WCAO WIAS WADC WGHP WBBM	WSAI WLS
WOWO KOIL WHK WLBW WMAL	9:30-10:00 Maxwell House Melodies
WRHM WISN WSPD WAIU WKBW	WJZ WBZ WBZA WBAL WHAM KDKA WJR WLW KSD WDAF
WKRC	KDKA WJR WLW KSD WDAF KSTP WTMJ WEBC WHAS WBAP
5:00-5:15 Ebony Twins WABC WKRC WISN WDOD WFAN	WSM WMC WBT KPRC KOA
WABC WKRC WISN WDOD WFAN WCAO WCCO WBBM WFBL WSPD	WHO WOW WJAX WRVA WSB
WOWO WMAL WMAQ WREC WDBJ	KYW
WOWO WMAL WMAQ WREC WDBJ WWNC KMBC KVI KMOX KFPY	10:00-10:30 Temple Hour
KLZ	WABC WNAC WEAN WFBL WJAS WADC WGHP WBBM KMOX KMBC
5:00-5:30 R-K-O Program	WADC WGHP WBBM KMOX KMBC KOIL WSPD WHK WLBW WMAL
WEAF WEEL WILC WIAR WOSH	WCCO WKRC WKBW WCAU WCAO
WLIT WRC WCAE WFJC WSAI KSD WOC WOW KYW WTAG	wowo
KSD WOC WOW KYW WTAG	10:00-11:00 Victor Program
WGY WWJ WDAF WGR	WEAF WEEL WIAR WTAG WCSH
6:30-7:00 Civic Repertory Plays WABC WKRC WISN WDOD WFBM WCAO WBBM WJAS WLBW WKBW	WFI WRC WGY WGR WCAE WFJC WWJ WSAI KSD WOW
WCAO WBBM WJAS WLBW WKBW	WFJC WWJ WSAI KSD WOW WEBC WRVA WHO WBT WKY
WMAQ WREC WDBJ WWNC KOIL	KPRC WOAI KOA KSL WBAP
KVI KFPY KLZ	WJAX WIOD WHAS WSM WMC
7:00-7:30 Mid-Week Hymn Sing	WSB WSMB KYW WDAF KVOO
WEAF WOSH WHAS WRC KOA	KTHS WTMI
WMC WJAR	10:00-11:00 Atwater Kent Program WJZ WBZ WBZA WBAL WHAM
7:30-8:00 Coward Comfort Music	WJZ WBZ WBZA WBAL WHAM WJR KWK WREN KDKA WGN
WEAF WEEL WJAR WTAG WCSH	WCKY
7:30-8:00 The Mediterraneans	10:30-11:00 National Forum
WJZ KWK WKY WBZ WBZA WBAL KDKA WJR WREN WEBC	WABC WHK WKRC WADC WISN
WBAL KDKA WJR WREN WEBC KPRC KFAB	WDOD WFAN WCAO WBBM WFBL
8:00-8:15 Tower-izers	WSPD WJAS WLBW WKBW WNAC WEAN WMAL WMAQ WREC WDBJ
WARC WEAN WNAC WEAN WERE	WEAN WMAL WMAQ WREC WDBJ WWNC KDYL KOIL KVI KMOX
WKBW WCAO WJAS WADC WKRC	KFPY KLZ WLAC
WGHP WBBM WOWO KMOX KMBC	11:00-11:30 Hotel Paramount Orchestra
KOIL WHK WLBW WMAL WCCO	WABC WKRC WISN WOOD WCALL
WISN WSPD 8:00-8:30 Lehn and Fink Serenade	WFBM WCAO WBBM WSPD WIAS
WIZ WRZ WRZA WHAM KINYA	WLBW WOWO WKBW WNAC WEAN
KYW KWK WREN WBAP KPRC	WMAQ WREC WDBJ KDYL KOIL KVI KFPY KFH KLZ WWNC
WOAI WKY WBAL WLW	
8:00-9:00 Fleischmann Sunshine Hour	11:00-11:30 Dream Boat WABC WOWO WGHP WCAO WISN
WEAF WEEL WTAG WJAR WCSH	WABC WOWO WGHP WCAO WISN WHP WWNC WLBW WSPD WMAL
WFI WRC WGY WGR WCAE KSD WFJC WHO WOW WDAF	WDOD WBRC WJAS WKRC WCAU
KSD WFJC WHO WOW WDAF WWJ WTMJ WPTF WBT WJAX	KFH KOIL KLZ KDYL WKRW
WIOD WHAS WMC WSB WSMB	TETRAL TETAL CONTRACTOR
WKY WSAI KPRC KOA WEBC	11:00-12:00 National Grand Opera
WRVA KSL. WOAI WSM KGO	11:00-12:00 National Grand Opera WEAF WFI WRC WGY WGR
KGW KOMO KHQ WBAP WAPI	WIAM WWJ KSD WRVA WHAS
KTHS KPO	WMC

F	i	đ.	A	v
T. 7		•	ч	.у

10:30-11:00 Walter Kolomoku's Honoluluans WABC WHK WLAC WOWO WGHP WADC WHP WWNC WKBN WSPD WADC WMAL WDOD WJAS WCAU KOIL KLZ KYI WREC

11:00-11:15 Nell Vinick
WABC WNAC WEAN WFBL WMAK
WCAO WJAS WADC WKRC WGHP
WOWO KOIL WSPD WLBW WMAL
WHEC WFBM WCAU WAIU WBBM

11:00-12:00 NBC Music Hour WEEI WJAR WGY WEAF WJZ WCSH WLIT WTAG WRC WGR WCAE WTAM WWJ WGN KSD wow WDAF KSTP WTMJ WHO WBT KVOO WFAA WJAX WRVA WEBC WHAM WMC WSB WOAI KPRC WBZWBZA WHAM KDKA WJR WLW KWK WREN KFAB WFJC KWK WKY KYW WIOD WSMB WAPI KSL WPTF KTHS

11:15-11:45 Columbia Salon Orchestra
WABC WDOD WCAU WCAO WGHP
WBBM WFBL WJAS WLBW WOWO
WMAK WMAL WREC WDBJ WWNC
KVI KFPY KLZ

11:45-12:15 Radio Beauty School
WABC WCAU WNAC WEAN WFBL
WMAK WCAO WJAS WADC WKRC
WGHP KMBC WBBM WOWO KOIL
WLBW WMAL WSPD (KMOX 11:45-12)

12:00-1:00 Evening Stars

WEAF WTAG WRC WWJ KSD

WHO WOW WJAX KSTP WTMJ

WSM WRVA WKY KOA KSL

WCSH WGY WCAE WDAF KPRC

WAPI WLIT WTAM WBT WBAP

WEBC WFJC

5:00-5:15 Dr. Thatcher Clark
WABC WCCO WOWO WCAO WHP
WWNC WKBN WDOD WKRC WFAN
KLZ WMAK KFPY KVI WREC

6:30-7:00 Raybestos Twins
WEAF WJAR WTAG WCSH WRC
WGY WCAE WTAM WWJ

7:00-7:30 Henry-George
WABC WADC WMAK WKRC WHK
KMBC KOIL WJAS KMOX WISN
WCCO WFBL WMAQ WFBM WGBI

7:30-7:45 Broadway Lights
WEAF WCSH WLIT WRC WGR
KSD WWJ

7:30-8:00 Dixies Circus
WJZ WBZ WBZA KDKA KYW
WHAS WSM WSB WBT WMC
WLW

7:30-8:00 Howard Fashion Plates WABC WCAU WNAC WEAN WFBL WJAS

8:00-8:30 Triadors WJZ WBZ WBZA KDKA WREN WHAM WJR WLW KWK

8:00-9:00 Cities Service Orchestra
WEAF WEEI WTIC WLIT WRC
WGR WCAE WTAM KYW KSD
WOW WDAF KSTP WTMJ WKY
WWJ WOC KOA WFAA WSAI
WIAR

8:30-9:00 Eversharp Penmen
WABC WFBM WMAQ WFBL WKRC
WMAK WJAS KMBC KOIL WKRC
WNAC WEAN WADC WLBW WCAU
WCAO WGHP WOWO KMOX WSPD

8:45-9:00 Famous Loves

WJZ WBZ WBZA WHAM KDKA

WLW KWK WREN WRVA WBT

WJAX WIOD WCFL KFAB

9:00-9:30 Stars of Melody WEAF WJAR WTAG WRC WGY WCAE WWJ KSD WOC WOW

9:00-9:30 Interwoven Pair WBZA WHAM KDKA WREN KPRC WOAI WBZ WJZ WMC KYW WREIN KOA WSB WRT WJAX KWK WRVA KSL KPO KĞO WKY KOMO KHQ KGW KFI WAPI WSMB WIOD WLW WFAA

9:00-10:00 True Story Hour
WABC WCAU WNAC WEAN WKRC
WGHP WMAK WCAO WJAS WADC
KOIL WSPD WHK WLBW WMAL
WHEC WCCO WDBJ WTAR WWNC
WLAC WDOD WREC KFJF KLRA
KRJD KTSA WDSU KLZ
KHJ KFRC KOIN KVI KFPY

9:30-10:00 Schradertown Band
WEAF WEEI WTIC WJAR WTAG
WCSH WGY WGR WCAE WWJ
WSAI KSD WOC WOW WRC
WLIT WFJC WIBO

9:30-10:00 Philco's Theatre Memories W JZ W JR KSTP WBZA WHAM KDKA KWK WREN WTMJ WBZ KYW WEBC WRVA WMC WSB WOAI KOA WCKY WBT WSMB KPRC KSL WKY WSM WHAS KGO KGW KPO KFI KOMO KHO

10:00-10:30 Bremer-Tully Time
WABC WCAU WNAC WEAN WFBL
WMAK WCAO WJAS WADC WKRC
WGHP WMAO KMOX KOIL WSPD
WHK WLBW WMAL WISN KMBC
WOWO WCCO

10:00-10:30 Planters Pickers
WEAF WTIC WJAR WTAG WCSH
WLT WRC WGY WGR WCAE
WFJC WWJ WSAI WLS KSD

 10:00-10:30 Armstrong Quakers

 WJZ
 WBZ
 WBAP
 WBAP
 WBAP

 KYW
 KWK
 WREN
 WHAM
 WJR

 KSTP
 WTMJ
 WEBC
 WHAS
 WSM

 WSB
 WBT
 KVOO
 KPRC
 WOAI

 WKY
 WSMB
 KOA
 KSL
 KGO

 KFI
 KGW
 KOMO
 KHQ
 WMC

- 1

 10:30-11:00 Armour Program

 WJZ
 WBZ
 WHAM
 KDKA

 WJR
 WLW
 KYW
 KWK
 WREN

 WBT
 WJAX
 WHAS
 WSM
 WMC

 WSB
 WSMB
 WRVA
 WFAA
 KPPA
 KSTP

 WEBC
 KOA
 KPO
 KGO
 KFI

 WEW
 KOMO
 KHO
 KVO
 KTHS

10:30-11:00 Mystery House WEAF WTAG WRC WWJ WOC WGR WCAE

10:30-11:00 Curtis Institute of Music WABC WLAC WCAO WISN WWNC WKBN WLBW WNAC WEAN WSPD WADC WMAQ WMAL WDOD WBRC

WJAS WKRC WCAU KOIL KLZ
KDYL WMAK KMOX KVI WREC
WDBJ

KFPY KMOX KVI WREC WKBW
WDBJ

12:00 Hotel St. Paris Orchastra 8:30-9:00 Launderland Lyrics
WEAF WEEI WJAR WTAG WCSH
WRC WGY WGR WCAE WWJ 11:00-12:00 Hotel St. Regis Orchestra WEAF WTIC WWJ WSAI WFJC WGY WOC Saturday

10:00-10:30 Personality Plus
WABC WHK WDOD WCAU WCAO
WBBM WFBL WLBW WOWO WKBW
WMAL WREC WDBJ WWNC KMBC
KOIL KVI KMOX KFPY WLAC

10:30-11:00 Columbia Male Trio
WABC WHK WDOD WCAU WCAO
WGHP WBBM WFBL WJAS WLBW
WOWO WKBW WMAL WREC WDBJ
WWNC KMBC KOIL KVI KFPY
KLZ WLAC

10:30-11:00 Columbia Male Trio
WABC WHK WDOD WCAU WCAO
WGHP WBBM WFBL WJAS WLBW
WKBW WCAO WJAS WADC WKRC
KMBC WGHP WMAQ WOWO KMOX KMBC
WGHP WMAQ WOWO KMOX KMBC
WGHP WMAQ WOWO KMOX KMBC
WGHP WMAQ WOWO KMOX KMBC
WGHP WMAQ WOWO KMOX KMBC
WKBW WCAO
WKBW WCAO
WKBW WCAO
WKBW WCAO
WKRW WCAO
WKBW WCAO
WKRC
KMBC KOIL KVI KFPY
WLAC
WLAC WDOD WBRC WREC KRLD
KFH KTSA WCCO WISN
WDSU
KLZ WLAC
WCAII WBBM

9:00-10:00 General Electric Hour
WGR WCAE 11:00-11:30 Adventures of Helen and Mary
WABC WKRC WDOD WCAU WBBM
WFBL WSPD WJAS WLBW WOWO
WKBW WMAL WREC WDBJ WWNC
KVI KFPY KLZ

WKLZ KDYL KFPY WK

9:00-10:00 General Electric Hour
WEAF WEEI WJAR WT.
WFI WRC WGY WG WEAF WEEL WJAR WTAG WCSH
WFI WRC WGY WGR WCAE
WTAM WWI WIS KSD WHO 11:30-12:00 Saturday Syncopaters
WABC WDOD WFAN WCAO WGHP
WBBM WFBL WSPD WJAS WLBW
WOWO WKBW WMAL WREC WDBJ
WWNC KMBC KVI KFPY KLZ
WWTAM WWJ WLS KSD WHO
WWAS WSMB WMC WSB WST
WBAP KPRC WOAI WRVA WSAI
KSTP WAPI WKY KOA KPO
KGW KOMO KHQ KSL KGO KFI 6:00-6:30 Musical Vespers
WABC WHK WKRC WADC WDOD
WFAN WFBM WCAO WCCO WBBM
WFBL WOWO WKBW WMAO WREC
WDBJ WWNC KVI KFPY KFH

6:00-6:30 Musical Vespers
WABC WHK WKRC WADC WDOD
WABC WGHP WCAO WHK WJAS
WABC WRHP WCAO WHK WADC
WNAC WKRC WEAN WADC
WBW WBW WAOC WFBL WMAK WMAO
WBW WBW WKOX KMBC WSPD WMAL KLZ 6:30-7:00 Nit Wit Hour

7:00-7:30 "New Business World"

8:00-8:30 Lyric Famous Challengers

8:15-8:30 Babson Finance Period

8:30-9:00 Dixie Echoes

WISN -7:00 Nit Wit Hour
WABC WHK WGHP WCAO WISN
WHP WWNC WKBN WLBW WDOD
WFBM WJAS WKRC KOIL KLZ
KMBC WKBW KFPY KVI WREC
WDBI

9:30-10:00 Gillette Program
WJZ WBZ WBZA WBAL WHAM
WREN
10:00-11:00 Lucky Strike Orchestra
WEAF WEEI WJAR WTAG WCAE
WFI WRC WGY WGR WCAE WFI WWJ WFI WRC WGY
WWJ WGN KSD
WDAF WIOD KSTP
WJAX WHAS WMC
WBAP KPRC WOAI
WSAI WFJC KOA
KGO KFI KGW WHO WOW WEAF WEEI WJAR WTAG WCSH
WRC WGY WGR WCAE WWJ
WSAI WOW KSTP WEBC WRVA
WBT WJAX WHAS WMC WSMB
WBAP KOA WTMJ WSMB WSB WBT

wow

WSAI WJAX WHAS WMC WSMB
WBAP KOA
7:30-8:00 Phil Spitalny's Music
WEAF WEEI WFI WRC WWJ
WSAI WHO WSM WGY WPTF
KOA WCAE WJAR
8:00-8:15 Guy Lombardo Canadians
WABC WHK WLAC WOWO WGHP
WCAO WISN WWNC WKBN WLBW
WNAC WEAN WSPD WADC WMAL
WDOD WFBM WBPC WJAS WKRC
WCAU KFH KOIL KLZ KMBC
WCAU KFPY KMOX WIBW -5:13 Guy Lombardo Canadians
WABC WHK WLAC WOWO WGHP
WCAO WISN WWNC WKBN WLBW
WNAC WEAN WSPD WADC WMAL
WDOD WFBM WBRC WJAS WKRC
WCAU KFH KOIL KLZ KMBC
KFRC WKBW KFPY KMOX KVI
WREC WDBJ

WKY

WAPI

-8:30 Babson Finance Period
WABC WFBL WEAN WBBM WNAC
WKRC WMAL WCAO WSPD WADC
WKBW WLBW WOWO WJAS WCCO
WCAU KMBC KOIL WGHP WHK
KMOX WJJD

-8:30 Babson Finance Period
WABC WOWO WGHP WCAO WISN
WABC WOWO WGHP WCAO WISN
WHP WWNC WLBW WNAC WEAN
WSPD WMAL WDOD WBRC WKRC
WCAU KOIL KLZ KDYL WKBW
KFPY KVI WREC WDBJ

WABC WLAC WCCO WOWO WGHP
WCAO WISN WWNC WLBW WNAC
WEAN WSPD WADC WMAL WDOD
WEAN WSPD WADC WMAL WDOD

		-						_			-							- 1	\IR	-LI	NE	D	IST	'Al	<b>IC</b> F	ES
Atlante, Ge.	Baltimore, Md.	Soise, Idaho	Secton, Mass.	Brownsville, Tex.	Suffelo, N. T.	Chicago, Ill.	Cincinnati, Ohio	Cleveland, Ohio	Denver. Colo.	Des Moines, Iowa	Detroit, Mich.	El Paso, Tex.	Fargo, N. Dak.	Fort Worth, Tex.	Galveston, Tex.	Hastings, Nebr.	Hot Springs, Ark.	Houghton, Mich.	Jacksonville, Fla.	Kansas City, Mo.	Los Angeles, Calif.	Louisville, Ky.	Memphis, Tonn.	Miami, Fla.	Minneapolis, Minn.	Missouls, Most.
1273	1670	774 1830	1967	838	1577			1417	332 1208	833		228 1293	968 1112	561	803	588 901	773 498	1252 947			663 1935	1174	938 335	1710 610	980 905	895 1790
•				3405	273	402	423	305	1505	913	398	1750	1143	1239	1245	1154	964			962	2313	498	792			1947
			2266	1610	1872	1453	1663	1754	637	1155	1671	969	975	1263	1538	934	1384	1367	2098	1158	663	1623	1506	2368	1140	252
	_			1881	398	849	737															823				
H	Δ.	<b>T T 7</b>		-	1575	1234	1184															1093		1	1335	
11	U.	W				454	392		1368			1690		,	1289		956					483		1184		1740
						~-	249	307	918	310		1249	571	1			585				1741			1190		1348
m	_	T	Ta.	_					1090			1333				742	569		1		1892		410			1640
T	()	U	5	U				•	1223	617		1521			1116		787			+		309	-	1088		670
									-10	607		554	642			353	749 488		1468		1433	1035		1732 1338		1096
7.7		<b>-</b> -		n	Α .	IJ.	יה	V		•	545		397		851	256			-		1976			1156		1582
Y	O1	IJΥ	•	K.	Α.	IJ.	E)	Δ			•	1475	745			800	761				702				1156	100
_	9	· -		_ • •								•	1161		723 1218	757		1422 393	1			818		1721		819
													***	-973	283	440 544		1093			1212			1150		1312
Αı	L s	tati	ons	in A	<b>A</b> me	rica	are	list	ed i	n R	ADE	X			203	808		1277			1423		492		1087	
	in	thro	a to	bles											•	200	313	2011		311	7450	50.		1		

A in three tables:

1st by Frequencies. 2nd by Call Letters 3rd by States and Cities.

The Index by Frequencies is the one to be used, the other two are merely supplementary.

Let us assume you have just bought your first RADEX. Proceed as follows:

Tune in some station—any station that comes Tune it sharply, turning down your rheostats (volume control) until we find the marks on your dials at which it comes in most clearly and with greatest volume.

eacest volume.	
INDEX BY FREQUENCIES	AND DIAL NUMBERS
590 kilocycles 508.2 meters	76 174
WGAJ 580 Lincoln, Nebr. WEEL 500 Boston, Mass.	Louis Wasmer, Inc. Nebraska Wesleyan University
WEAF 580 Lincoln, Nebr. WEEF 580 Boston, Mass.	Nebraska Westeyan University
	Edison Elec. Himminating Co. Woodmen of the World
WEMC 1000 Berrtun Springe, Mich.	Enimenuel Missionary College
600 kilocycles 499.7 meters	75   73
CFCH 250 [requels Falls, Ont.	Abbithi Power & Paper Co.
EFSD 500 Laramir, Wyo. EFSD 500 San Diego, Calif.	Bishop N. S. Thomas
	Airfan Redio Corp Monumental Radio Co., Inc.
WEBW 250 Beloit, Wis.	
WOAN 500 Lawrenceburg, Trop.	Vaughan School of Music
WREC 300 Memphis, Tenn. WTIC 250 Heriford, Conn.	WREC, Inc. Travelers insurance Co.
610 kilocycles 491.5 meters	74 72
EFRG 1000 San Pranctuce, Callf.	Don Les, Inc.
WDAF 1996 Kanasi City, Mo.	Kanna City Stat Co.
WFAN 500 Philadelphia, Pa. WIP 500 Philadelphia, Pa.	Reyarone Broadcasting Co., Inc. Gimbel Bros., Inc.
WIP 500 Philadelphia, Pa. WOO 1000 Escare City, Mo.	Unity School of Christianity
620 kilocycles 483.6 meters	73   7/
EFAD 500 Phoenix, Arix.	Discretical Equipment Co.
KGW 1090 Pertland Ors.	Riectrical Equipment Co. Oregonian Publishing Co.
WDAB 1800 Tamps, Fis. WDBO 1806 Orlands, Fis.	Tampa Pub)fahling Co.
WEBS 1006 Orlands, Fig. WLBZ 506 Dover-Fescroft, Me.	Rollins Gollege, Inc. Thompson E. Guernesy
WTMJ 1000 Milwaukee, Wis,	Milwaukes Journal
630 kilocycles 475.9 meters	72   70
CFCT 500 Victoria, B. C. CJGX 500 Verkion, Suck.	Victoria Broadcauting Ass'n.
	Winnipeg Grain Eschenge Canadian National Railways
CYR 250 Masarian, Mex.	
EFRU 500 Columbia, Mo.	Stephens College
WGRF 500 Zvansville, Ind. WMAL 250 Washington, D. C.	Evansville on the Air, Inc.
WOS 300 Jefferson City, Mo.	M. A. Leese Co. State Marketing Bureau
640 kilocycles 468.5 meters	
WWI Some Los Ameeles, Cally.	Earle C. Anthony, Inc.
WATU 5000 Columbus, Ohlo	American insurance Union
650 kilocycles 461.3 meters	70 68
WSM 5000 Nashville, Tenn.	Netional Life & Accident Ins. Co.
660 kilocycles 454.3 meters	69 67
WAAW 508 Omahs, Nebr. WEAF 50000 New York City	Omeha Grain Exchange National Broadcasting Co., Inc.
	4 40 4 4
670 kilocycles 447.5 meters	68 66 1
WMAO 5000 Chicago, III.	Chicago Dally Name, Inc.
wenty poor chicken in.	Contrago Dairy Ive as, Inc.
680 kilocycles 440.9 meters	67   65
RPO 5000 San Francisco, Cal. WPTF 5000 Raiciab, N. C.	Hala Bros. & The Chronicle Durham Life Insurance Co.
was a see to the first to the	Am rate and the party after CTT

830 1545 272 1208 - 1216 633 1787 636 - 952 2153 595 591 328 1192 2070 Let us assume that the sta-- 1352 480 370 1247 413 1117 tion we are hearing is - 1825 1602 2355 1522 910 WEAF in New York. + 319 923 605 1550 First we must ascertain the - 878 700 1483 frequency for this station. Look - 1516 2359 it up under WEAF in the Index by - 1010 Call Letters or under New York in the Index by States and Cities. In either of these indexes we find that the frequency of WEAF is 660. Now we turn to 660 kilocycles in the Index by Frequencies and Dial Numbers. Here we find that WEAF is one of the two stations which have been assigned the 660 kcys. frequency by the Federal Radio Commission. We also find that it has a power of 50,000 watts, that it is located in New York City and is owned by the National Broadcasting Co., Inc.

513 666 1178 226 1177 693 591 1468 399 891 - 901 728 326 1437 480 176 983 722 1385

as

ti

ni

h)

ti S€

W

81

e

m

1000年から

W

ir

R q

h

8

s

r t v

t

In the blanks for dial numbers opposite 660 kilocycles (which is the wave length of 454.3 meters) enter the dial readings of your set. It is immaterial whether your set has one, two or three dials. Use as many of three spaces provided as The set used in the illustration had two you need. dials. In this case we entered the dial readings for 660 kilocycles as 69-67.

Let us now tune in some other station. We repeat the same procedure in tuning and find that we are hearing, let us say, WOS at Jefferson City. Proceed as before in ascertaining the frequency of WOS. This we find to be 630 kcys. We turn to 630 in the Index by Frequencies and enter our dial readings for this band which on the set we are using was 72-70.

We now have found that the dial numbers for 630 kcys. are 72-70 and the dial numbers for 660 kcys. are 69-67. If we now will set our dials for 70-68 it is obvious we will have our set tuned for 650 kcvs. We listen carefully and if they are on the air and within range of our set we will tune in WSM of Nashville at this point. We then enter the dial readings for WSM opposite 650 kcys. Now it is clear that if we reset our dials at 71-69 our set will be tuned to 640 kcys, and at that point KFI of Los Angeles will be heard, always assuming of course that it is on the air and within range of our particular set.

Now we tune in some other station, proceeding

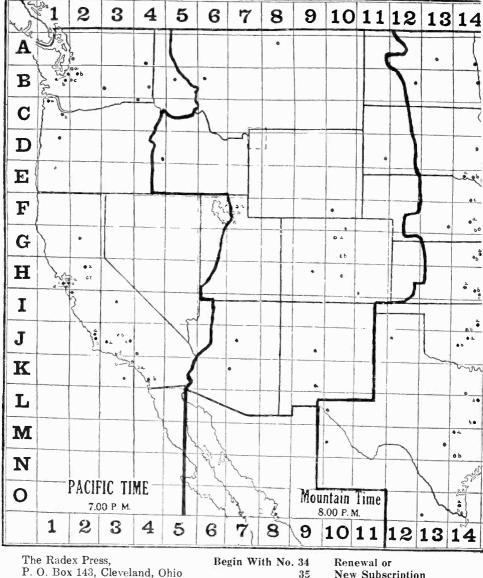
IN STATUTE MILES																						
114	3	ı M	10	IL	14	ш	ES				- 1		4	ä		- 1						
						.					1		Uteh	Calif.	-	- 1			4	THE .		
ផ្គ	<u>i</u>	.:		es es		4		20		ů		•	City,		25		4	:	Yess		0	
Tenn	-		4	Okla	č	4	퓓		Ė.	Oreg.	افع	ŝ	3	rancisco,	χ,	Tash.		¥esh.	4		_	
	3	25	S	-	Nebr	hiladelphia	¥	Pitteburgh,			7			nc i	Schonectady	!	eveport		Springfield,	ermillion,	ashington,	
sbville,	or le	York,	Ŧ,	klahom	~	看	Phoenix,	ž,	ortland,	ortland,	paor	Louis	e ye	Ē	9	e e	d e	pokane,	8	ä	Ę	
Ä			ğ	4	ä	4	en	43	#	£	Colum			C.	peq	eattl	ž	S.	큠	Ē	Э	
A A	He W	Ne w	Horfolk,	됳	0	P. P.	P.	H	Por	40	3.	÷.	Salt	San	S.	ő.	Sh	S _D	er.	P.	E .	
		1810		518	718	1748	330	1498	2015	1107	1628	938	483	893			764	1028	1889		1648	Albuquerque, N. Mez-
218	427	747	507	753	815	663	1592	520	1022				1580			2180		1960	863		542	Atlanta, Ga.
597	1001					90		194		2367			1858				1064				33	Baltimore, Md.
1631	1713	2153	2137	1138	1044	2113	733	1863			2060	1			2120		1433		2196			Boise, Idaho
941	1359	188	467				2295			2553					150		1410			1314		Boston, Mass.
952	536	1695			1061		1023								1770				1805		290	Brownsville, Tex- Buffalo, N. Y.
626	1087	291	435		883		_	178		2167					249			1900			594	Chicago, Ill.
394	831	711		689	4 32		1451	411		1765			1260			1743			774		403	-
239	708	568	474	755	620		1578	258		1987	399		1450			1974			659		303	Cincinnati, Ohio
456	922	404	429	946	738		1745	115		2063		793			1618				1692			Cleveland, Ohio Denver, Colo.
1018		1628		503		1575		1320			1488	270			1012				1085		895	Des Moines, Iowa
523		1023	983	469	122		1154		1197						467				540		397	Detroit, Mich.
468	938		522	905	686	444		208 1592				1033			1930				1990			El Paco, Tex.
1169		1902		578		1834	1225			1248		658			1157		1002		1240			Fargo, N. Dak.
		1213		786 188		1186		1097				568			1445				1495			Fort Worth, Tex.
643		1398		456		1335		1140				4			1487				1524			Galveston, Tex.
666				357		1222	901			1271		455			1267				1340			Hastings, Nebr.
697		1275 1125	955	260		1051	1094		1371						1175				1224		936	Hot Springs, Ark.
370	1187	849	946	926	547		1550		924						776				860		813	Houghton, Mich.
502		838			1098		† —		1113			755	1840	2375	960	2450	733	2239	957	1203	647	Jacksonville, Fla.
472		1097			165		1045		1300			238			1107		326	1286	1173	280	943	Kansas City, Mo.
	1675		2352								2283	1585	577	345	2445	956	1420	939	2515	1291	2295	Los Angeles, Calif.
153		650		675	579		1512					242			695		598	1720	745	663	473	Louisville, Ky.
195		953	778	482	529	878	1264	660	1205	1852	722				1010				1055			Momphie, Tenn.
821		1095	802	1253	1402	1023	1998	1014	1357	2715					1229				1210			Miami, Fla.
695	1050	1019	1047	692	291	985	1279	745	1145	1435	968	464			975				1056		936	Minneapolis, Minn.
1582	1733	2030	2045	11.52	978	1997	932	1754	2133	430	1967				1978		1		2060		1940	Missoula, Mont.
~~	470	758	586	602			1445		1015	1970					820				863			Nashville, Tenn.
		1173	932	575	845	1090	1318		1445						1259				1287			New Orleans, La.
		-		1324						2455			1972			2419	à.		120 411			New York, N. Y. Norfolk, Va.
			**	1186			2027								426				1412			Oklahoma, Oklai
	£					1256					1122				1354 1133						1012	Omaha, Nebr.
3 be											1020		1923			2388			201			Philadelphia, Pa,
I af						1	2079					-		4510	2152	1112	1067	1020	2220	1043	1980	Phoenix, Ariz.
lank					0 P 17		~	1953		2174	1960		1670			2145			400			Pittsburgh, Pa.
ige.						t o		•		2563			2127						159			Portland, Me.
et ou							CV				2381				2405							Portland, Oreg.
								w														Richmond, Va.
e desire and consequently any												St. Louis, Mo.										
ver received it before or not 592 1950 697 1155 548 2027 785 1845 Salt Lake City, Utal												Salt Lake City, Utab										
- 2548 680 1655 730 2615 1383 2437 San Fran												San Francisco, Calif.										
												Schenectady, N. Y.										
																****	1820	229	2445	128	2335	Seattle, Wash.
usic																	••				1035	Shreveport, La.
idex													der	ntif	yin	g					2105	Spokane, Wash.
ши С	инь У	wea	ie in	ı tur	ie to	001	KIL	UCVC	LED.	Oil	UIIIS					-			_	304	221	Creinofield, Mass.

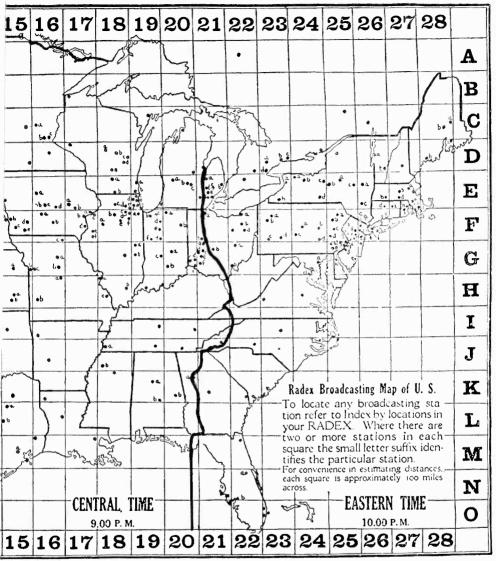
Our index now becomes of great value to us identifying programs. Let us say that we hear usic at 67-65 on our dials. We refer to our dex by Frequencies and Dial Numbers and we not that we are in tune to 680 kilocycles. On this ave there are two stations: KPO at San Fransco and WPTF at Raleigh, N. C. Both of these lations have 5000 watts in power. But knowing hich is the closer to our set, we can tell almost avariably which station we are hearing. The ladio Commission has had to give the same frequency in most cases to several stations but they ave distributed them geographically so they hould not interfere. When two stations in the ame locality have the same frequency, they are equired to divide time. In this case of course it is not possible to tell which one of the two stations is broadcasting at the particular moment we hear it but we do know it is one or the other of hem.

The second column in the index by Frequencies, s we have seen, gives the power of the station as leasured in watts. This power also aids us in stations as we we will not ordinarily hear those stations with 500 watts or less unless they are close to our home city.

The Index by Call Letters also has spaces providing for logging dial numbers but these are provided merely for the convenience of those who want to be able to turn instantly to some favorite station. They may or may not be used as you desire. Remember that it is the Index by Frequencies that we must use to get the most value and pleasure out of our radios.

The Index by Frequencies is now printed with marginal tabs. If you will fill in under the word "dial" your reading for this particular frequency, you can then turn instantly to any frequency desired. Take a pair of shears and cut along the dotted line, as shown.





RADEX is published monthly throughout the year with the exception of July and August. The price is 25c per copy or \$1.75 for the year of ten issues. If you desire to be up-to-date in radio and to be kept informed of the frequent changes in stations, please fill in the coupon on this page and mail it at once.

In answer to many requests we have had prepared a beautiful leatherette cover stamped in gold. This cover is not only an ornament to even the finest set but it protects your RADEX from wear and gives a solid backing for making entries. The price of this cover is 50c or we will send one free for two yearly subscriptions. Send your own and a friend's subscription and we will send you one of these beautiful covers free.

#### NOTICE OF COPYRIGHT

The method of logging by wave-lengths or frequencies was devised by The Radex Press in 1924 and has been copyrighted and recopyrighted each year since that time. The arrangement of stations in groups by frequencies or wave-lengths with dial readings in connection therewith is fully covered by our copyright and all infringers will be vigorously prosecuted.

#### 540 kilocycles 555.6 meters

CKX 500 Brandon, Manitoba XFA 50 Mexico City Manitoba Telephone System Sria. de Agricultura y Fomento

#### 550 kilocycles 545.1 meters

1000 Brookings, S. D. St. Louis, Mo. KFDY KFUO 500 KF YR KOAC Bismarck, N. D. Corvallis, Ore. 500 1000 KSD WGR St. Louis, Mo. Buffalo, N. Y. 500 1000 WKRC Cincinnati, Ohio Merida, Yucatan 500 105

S. D. State College Concordia Theological Seminary Hoskins-Meyer State Agricultural College Pulitzer Publishing Co. Radio Station WGR Inc. J. S. Boyd Partido Socialista del Sureste

#### 560 kilocycles 535.4 meters

500 Beaumont, Texas St. Joseph, Mo. KFEQ KLZ 2500 1000 Dupont, Colo. Oakland, Cal. Philadelphia, Pa. Philadelphia, Pa. KTAB WFI 1000 500 WLIT WNOX WOI 500 1000 Knoxville, Tenn. 5000 Ames, Iowa WQAM 1000 Miami, Fla.

Magnolia Petroleum Co. Scroggin & Co. Bank Reynolds Radio Co., Inc. Associated Broadcasters Strawbridge & Clothier Lit Brothers Sterchi Bros. Iowa State College Miami Brdestg. Co.

## 570 kilocycles 526.0 meters

KGKO KMTR 250 Wichita Falls, Tex. Hollywood, Cal. Missoula, Mont. Seattle, Wash. Columbus, Ohio Chicago, Ill. 500 KUOM 500 KXA WEAO WIBO 500 750 1000 WKBN WMAC 500 Youngstown, Ohio Cazenovia, N. Y. 250 WMCA 500 New York City Yankton, S. D. New York City WNAX WNYC WPCC 1000 500 Chicago, Ill. Syracuse, N. Y. Asheville, N. C. 500 WSYR 250 WWNC 1000

Wichita Falls Brdcstg. Co.
KMTR Radio Corp.
University of Montana
American Radio Tel. Co.
Ohio State University
Nelson Bros. Bond & Mtg. Co.
W. P. Williamson, Jr.
Clive B. Meredith
Knickerbocker Broadcasting Co., Inc.
Gurney Seed & Nursery Co.
Dept. of Plants and Structures
North Shore Congregational Church
Clive B. Meredith
Clive B. Meredith
Clitzens Brdcstg. Co., Inc.

#### 580 kilocycles 516.9 meters

500 Toronto, Ont. CHMA 250 Edmonton, Alta CJBC CJCA CKCL 500 Toronto, Ont. 500 500 500 Edmonton, Alta Toronto, Ont. Toronto, Ont. CKNC CKUA 500 Edmonton, Alta. CNRE 500 Edmonton, Alta KGFX 200 Pierre, S. D. KSAC Manhattan, Kans 500 WIBW 500 Topeka, Kansas WOBU WSAZ Charleston, W. Va. Huntington, W. Va. 250 250 Worcester, Mass. WTAG 250

Dominion Battery Co.
Christian and Missionary Alliance
Jarvis Street Baptist Church
The Edmonton Journal, Ltd.
The Dominion Battery Co.
Canadian National Carbon Co., Ltd.
University of Alberta
Canadian National Railways
Dana McNeil
State Agricultural College
Topeka Brdcstg. Assn. Inc.
Charleston Radio Brdcstg. Co.
WSAZ Inc.
Telegram Publishing Co.

мткs. 447.5 DIAL

#### INDEX BY FREQUENCIES AND DIAL NUMBERS

INDEX BY FREQUENCIES	AND DIAL NUMBERS	
590 kilocycles 508.2 meters	KCY	
KHQ 1000 Spokane, Wash. WCAJ 500 Lincoln, Nebr. WEEI 1000 Boston, Mass. WEMC 1000 Berrien Springs, Mich. WOW 1000 Omaha, Nebr. XFI 1000 Mexico City	Louis Wasmer, Inc. Nebraska Wesleyan University Edison Elec. Illuminating Co. Emmanuel Missionary College Woodmen of the World Sria. de Industria, Commercio y Trabajo	s. .5
600 kilocycles 499.7 meters		
CFCH 250 Iroquois Falls, Ont. CJRM 500 Moose Jaw, Sask. CJRW 500 Fleming, Sask. CNRO 500 Ottawa, Ont. KFSD 500 San Diego, Cal. WCAC 250 Storrs, Conn. WCAO 250 Baltimore, Md. WEBW 350 Beloit. Wis. WMT 250 Waterloo. Iowa WOAN 500 Lawrenceburg, Tenn. WSUI 500 Iowa City, Iowa	Abitibi Power & Paper Co. Jas. Richardson & Sons, Ltd. Jas. Richardson & Sons, Ltd. Canadian National Railways Airfan Radio Corp. Conn. Agricultural College Monumental Radio, Inc. Beloit College Waterloo Broadcasting Co. James D. Vaughan WREC, Inc. University of Iowa	
610 kilocycles 491.5 meters		
KFRC 1000 San Francisco, Cal. WDAF 1000 Kansas City, Mo. WFAN 500 Philadelphia, Pa. WIP 500 Philadelphia, Pa.	Don Lee, Inc. Kansas City Star Co. Keystone Broadcasting Co., Inc. Gimbel Bros., Inc.	
620 kilocycles 483.6 meters		
KFAD 500 Phoenix, Ariz. KGW 1000 Portland, Ore. WFLA 1000 Clearwater, Fla. WJAY 500 Cleveland, Ohio WLBZ 250 Bangor, Me. WSUN 1000 St. Petersburg, Fla. WTMJ 1000 Milwaukee, Wis.	Electrical Equipment Co. Oregonian Publishing Co. Chamber of Commerce Cleveland Radio Brdcstg. Corp. Maine Brdcstg. Co., Inc. Chamber of Commerce Milwaukee Journal	
630 kilocycles 475.9 meters	N. O.	
CFCT 500 Victoria, B. C. CJGX 500 Yorkton, Sask. CNRA 500 Moncton, N. B. KFEL 250 Denver, Colo. KFRU 500 Columbia, Mo. KFXF 250 Denver, Colo. WGBF 500 Evansville, Ind. WMAL 250 Washington, D. C. WOS 500 Jefferson City, Mo. XFC 350 Jalapa, Ver.	Chamber of Commerce Cleveland Radio Brdcstg, Corp. Maine Brdcstg, Co., Inc. Chamber of Commerce Milwaukee Journal  Victoria Broadcasting Association Winnipeg Grain Exchange Canadian National Railways Eugene P. O'Fallon, Inc. Stephens College Pikes Peak Broadcasting Co., Inc. Evansville on the Air, Inc. M. A. Leese State Marketing Bureau Goberno Estado de Veracruz	
640 kilocycles 468.5 meters		
KFI 5000 Los Angeles, Cal. WAIU 500 Columbus, Ohio XFG 2000 Mexico City	Earle C. Anthony, Inc. American Insurance Union Sria. de Guerra y Marina	
650 kilocycles 461.3 meters		
WSM 5000 Nashville, Tenn.	National Life & Accident Ins. Co.	
660 kilocycles 454.3 meters WAAW 500 Omaha, Nebr. WEAF 50000 New York City	Omaha Grain Exchange National Broadcasting Co., Inc.	
670 kilocycles 447.5 meters		
WMAQ 5000 Chicago, Ill. XEB 1000 Mexico City	Chicago Daily News, Inc. El Buen Tono, S. A.	

680 kilocycles 440.9 meters	THE SIND HONDERS
KPO 5000 San Francisco, Cal. WPTF 1000 Raleigh, N. C.	Hale Bros. & The Chronicle Durham Life Insurance Co.
690 kilocycles 434.5 meters	
CFAC 500 Calgary, Alta. CFCN 500 Calgary, Alta. CHCA 500 Calgary, Alta. CJCJ 500 Calgary, Alta. CJCJ 500 Calgary, Alta. CJSC 500 Toronto, Ont. CKCO 100 Ottawa, Ont. CKGW 5000 Toronto, Ont. CNRC 500 Calgary, Alta CNXR 5000 Toronto, Ont. NAA 1000 Arlington, Va.	The Calgary Herald Western Broadcasting Co. The Western Farmer Albertan Publishing Co., Ltd. The Evening Telegram Dr. G. M. Geldert Gooderham & Worts, Ltd. Canadian National Railways Canadian National Railways U. S. Navy
700 kilocycles 428.3 meters	
WLW 50000 Cincinnati, Ohio	Crosley Radio Corp.
710 kilocycles 422.3 meters	
KEJK 500 Los Angeles, Cal. WOR 5000 Newark, N. J.	R. S. MacMillan L. Bamberger & Co.
720 kilocycles 416.4 meters	
WGN 25000 Chicago, Ill.	Chicago Tribune
730 kilocycles 410.7 meters	
CHLS         50         Vancouver, B. C.           CHYC         500         Montreal, Que.           CKAC         12000         Montreal, Que.           CKCD         50         Vancouver, B. C.           CKMO         50         Vancouver, B. C.           CKWX         100         Vancouver, B. C.           CKWX         100         Vancouver, B. C.           CMK         4000         Havana, Cuba           CNRM         1650         Montreal, Que.           XEN         1000         Mexico City	W. G. Hassell Northern Electric Co., Ltd. La Presse Publishing Co., Ltd. Vancouver Daily Province United Church of Canada Sprott-Shaw Radio Co. A. Holstead & Wm. Hanlon Hotel Plaza Canadian National Railways General Electric, S. A.
740 kilocycles 405.2 meters	
KMMJ 1000 Clay Center, Neb. WSB 1000 Atlanta, Ga.	The M. M. Johnson Co. Atlanta Journal Co.
750 kilocycles 399.8 meters	
WJR 5000 Detroit, Mich.	WJR, The Goodwill Station, Inc.
760 kilocycles 394.5 meters	
KVI 1000 Tacoma, Wash. WEW 1000 St. Louis, Mo. WJZ 30000 New York City	Puget Sound Brdcstg. Co. St. Louis University Radio Corp. of America, Inc.
770 kilocycles 389.4 meters	
KFAB 5000 Lincoln, Nebr. WBBM 25000 Chicago, Ill. WJBT 25000 Chicago, Ill	Nebraska Buick Automobile Co. The Atlass Co., Inc. The Atlass Co., Inc.
780 kilocycles 384.4 meters	
CKY 5000 Winnipeg, Manitoba CNRW 5000 Winnipeg, Manitoba KELW 500 Burbank, Cal. KTM 500 Los Angeles, Cal. WEAN 250 Providence, R. I. WMC 500 Memphis, Tenn. WPOR 500 Norfolk, Va. WTAR 500 Norfolk, Va.	Manitoba Telephone System Canadian National Railways Earl L. White Pickwick Brdestg. Corp. The Shepard Co. Memphis Commercial-Appeal WTAR Radio Corp. WTAR Radio Corp.

#### 790 kilocycles 379.5 meters **75**00 General Electric Co. KGO WGY Oakland, Cal. Schenectady, N. Y. General Electric Co. 50000 1500 Frank H. Jones 6KW Tuinucu, Cuba 800 kilocycles 374.8 meters Carter Publications, Inc. WBAP 50000 Fort Worth, Tex. News & Journal WFAA 500 Dallas, Texas KCYS 810 kilocycles 370.2 meters 880 Minneapolis, Minn. New York City Northwestern Broadcasting Inc. wcco **75**00 MTRS. Eastern Broadcasters, Inc. 500 WPCH 820 kilocycles 365.6 meters DIAL Courier-Journal & Times WHAS 10000 Louisville, Kv. 830 kilocycles 361.2 meters 1000 Port au Prince, Haiti Republic of Haiti HHK General Electric Co. Denver, Colo. KOA WHDH 12500 Matheson Radio Co., Inc. 1000 Gloucester, Mass. Gainesville, Fla. University of Florida WRUF 5000 840 kilocycles 356.9 meters Star Publishing & Ptg. Co. G. F. Tull & Ardern, Ltd. Jarvis Street Baptist Church 500 Toronto, Ont. **CFCA** 1000 Red Deer, Alta. Toronto, Ont. CHCT CKLC 1000 Alberta Pacific Grain Co., Ltd. Nestle's Food Co. Cuban Telephone Co. Canadian National Railways Red Deer, Alta. Toronto, Ont. Havana, Cuba Toronto, Ont. Mexico City 1000 CKOW CMC CNRT XFX 500 500 500 Sria. de Educacion Publica 500 850 kilocycles 352.7 meters W. K. Henderson 10000 Shreveport, La. New Orleans, La. Lovola University 5000 860 kilocycles 348.6 meters Hollywood, Cal. New York City New York City Taft Radio & Brdcstg. Co. KFOZ 250 Atlantic Broadcasting Corp. WABC 5000 Atlantic Broadcasting Corp. WBOO 5000 Merio G. Velez Havana, Cuba Elia, Cuba 100 2OK Salvador Rionda 500 7SR 344.6 meters 870 kilocycles Chicago, Ill. Chicago, Ill. Great Lakes Brdcstg. Co. WENR 50000 Agricultural Brdcstg. Co. 50000 880 kilocycles 340.7 meters The Hamilton Spectator CHCS Hamilton, Ont. CHCS CHML CHRC CJCB CKCI CKCV CKOC CNRQ KFKA KLX Maple Leaf Radio Co. 50 Hamilton, Ont. Quebec, Que. Sydney, N. S. E. Fontaine 25 N. Nathanson Le "Soleil," Ltd. 50 Quebec, Que. Quebec, Que. Hamilton, Ont. 22.5 G. A. Vandry Wentworth Radio Supply Co. 50 50 Quebec, Que. Greeley, Colo. Oakland, Cal. Denver, Colo. Columbus, Miss. Scranton, Pa. Canadian National Railways 50 State Teachers College 500 Tribune Publishing Co. Pillar of Fire, Inc. 500 KPOF WCOC 500 Crystal Oil Co. 500 Scranton Broadcasters, Inc. 250 WGBI Scranton Times WOAN 250 Scranton, Pa.

#### 890 kilocycles 336.9 meters

CFBO	50	St. John, N. B.
KFNF	500	Shenandoah, Iowa
KGJF	250	Little Rock, Ark.
KUSD	500	Vermillion, S. D.
WGST	250	Atlanta, Ga.
WILL	250	Urbana, Ill.
WJAR	250	Providence, R. I.
WKAQ	500	San Juan, P. R.
WMAZ	250	Macon, Ga.
WMMN	250	Fairmont, W. Va.

# C. A. Munro, Ltd. Henry Field Seed Co. Church of the Nazarene University of South Dakota Georgia School of Technology University of Illinois The Outlet Co. Radio Corp. of Porto Rico Junior Chamber of Commerce Holt-Rowe Novelty Co.

#### 900 kilocycles 333.1 meters

KGBU	500	Ketchikan, Alaska
KHJ	1000	Los Angeles, Cal.
KSĚI	250	Pocatello, Idaho
WFBL	<b>75</b> 0	Syracuse, N. Y.
WJAX	1000	Jacksonville, Fla.
WKY	1000	Oklahoma City
WLBL	2000	Stevens Pt., Wis.
WMAK	750	Buffalo, N. Y.

# Alaska Radio & Service Co. Don Lee, Inc. KSEI Broadcasting Association The Onondaga Co., Inc. City of Jacksonville WKY Radiophone Co. Wisconsin Dept. of Markets WMAK Brdestg. System, Inc.

### 910 kilocycles 329.6 meters

CFQC	500	Saskatoon, Sask.
CJĞC	500	London, Ont.
CJHS	250	Saskatoon, Sask.
CNRL	500	London, Ont.
CNRS	500	Saskatoon, Sask.

#### The Blectric Shop, Ltd. Free Press Printing Co., Ltd. Radio Service, Ltd. Canadian National Railways Canadian National Railways

## 920 kilocycles 325.9 meters

KUMU	1000	Seattle, Wash.
KPRC	1000	Houston, Tex.
WAAF	500	Chicago, Ill.
WBSO	250	Wellesley Hills, Mass.
wwj	1000	Detroit, Mich.
XEX	500	Mexico City
XFF	250	Chihuahua, Chih.

Fisher's Blend Station, Inc. Houston Printing Co. Drovers Journal Publishing Co. Babson Statistical Organization The Detroit News Excelsior, Cia. Editorial, S. A. Gobierno Estado de Chihuahua

### 930 kilocycles 322.4 meters

CHNS	500	Halifax, N. S.
CKIC	50	Wolfville, N. S.
KFWI	500	San Francisco, Cal.
KFWM	500	Oakland, Cal.
KGBZ	500	York, Nebr.
KMA	500	Shenandoah, Iowa
WBRC	500	Birmingham, Ala.
WDBJ	250	Roanoke, Va.
WIBĞ	50	Elkins Park, Pa.

# Halifax Herald, Ltd. Acadia University Radio Entertainments, Inc. Oakland Educational Society Dr. George R. Miller May Seed & Nursery Co. Birmingham Broadcasting Co. Richardson-Wayland Elec. Corp. St. Pauls P. E. Church

#### 940 kilocycles 319.0 meters

KGU	1000	Honolulu, Hawaii
KOIN	1000	Portland, Ore.
WCSH	500	Portland, Maine
WDAY	1000	Fargo, N. D.
WFIW	1000	Hopkinsville, Ky.
WHA	<b>75</b> 0	Madison, Wis.

#### Marion A. Mulrony KOIN, Inc. Congress Square Hotel Co. WDAY ,Inc. The Acme Mills, Inc. University of Wisconsin

#### 950 kilocycles 315.6 meters

KFWB	1000	Hollywood, Cal.
KGHL	500	Billings, Mont.
KMBC	1000	Independence, Mo.
WHB	500	Kansas City, Mo.
WRC	500	Washington, D. C.
2RK	20	Havana, Cuba

Warner Bros. Broadcasting Corp. Northwestern Auto Supply Co. Midland Broadcasting Co., Inc. Sweeney Automobile School Co. Radio Corp. of America Raoul Karman

#### 960 kilocycles 312.3 meters CFCY CFRB The Island Radio Co. 250 Charlottetown, P. E. I. Rogers-Majestic Corp., Ltd. W. E. Burke R. H. Williams & Sons 4000 Toronto, Ont. CHCK 30 Charlottetown, P. E. I. CHWC CJBC CJBR CKCK CNRR 500 Pilot Butte, Sask. Toronto, Ont. Regina, Sask. Regina, Sask. Jarvis St. Baptist Church Cooperative Wheat Producers Leader Pub. Co., Ltd. Canadian Nat'l. Railways 5000 500 500 Regina, Sask. Pueblo, Pue. 500 Ramon Huerta G. XEE 101 970 kilocycles 309.1 meters 5000 Ralph A. Horr, Receiver KJR KTHS XBH Seattle, Wash. 10000 Hot Springs, Ark. Monterey, N. L. Chamber of Commerce Ing. Constantino de Tarnava 101 305.9 meters 980 kilocycles KDKA 50000 Pittsburgh, Pa. Westinghouse Elec. & Mfg. Co. KCYS. 1050 990 kilocycles 302.8 meters MTRS. Westinghouse Elec. & Mfg. Co. Westinghouse Elec. & Mfg. Co. WBZ 15000 Springfield, Mass. WBZA 500 Boston, Mass. 285.5DIAL 1000 kilocycles 299.8 meters KFVD WHO WOC Culver City, Cal. Des Moines, Iowa Davenport, Iowa 250 Los Angeles Brdcstg, Co. Bankers Life Co. 5000 Palmer School of Chiropractic Carlos Gutierrez M. 5000 XEI 101 Morelia, Mich. 1010 kilocycles 296.8 meters CFLC 50 Radio Association Prescott, Ont. Radio Association John Patterson City of St. Hyacinthe D. L. Connell, M. D. First Baptist Church Marcus Loew Booking Agency University of Oklahoma Calvary Bantist Church CKCR CKSH 50 Brantford, Ont 50 St. Hyacinthe, Que. Picher, Okla San Jose, Cal. New York City KGGF KOW WHN 500 500 250 Norman, Okla. New York City New York City New York City WNAD WPAP 500 250 250 Calvary Baptist Church Calvary Baptist Church WOAO Aviation Radio Station, Inc. 250 1020 kilocycles 293.9 meters Westinghouse Elec. & Mfg. Co. Westinghouse Elec. & Mfg. Co. Berachah Church, Inc. KFKX KYW 5000 Chicago, Ill. Chicago, Ill. Philadelphia, Pa-5000 WRAX 250 1030 kilocycles 291.1 meters 1650 Montreal, Que. Sea Island, B. C. Vancouver, B. C. CFCF Canadian Marconi Co. G. C. Chandler CURV 500 Canadian National Railways 1040 kilocycles 288.3 meters KRLD 10000 Dallas, Texas KRLD, Radio Corp. East Lansing, Mich. Buffalo, N. Y. Michigan Agricultural College WKAR WKEN 1000 Radio Station WKEN, Inc. 1000 1050 kilocycles 285.5 meters

John R. Brinkley, M. D. Western Broadcast Co.

M. y G. Salas

5000

20

25000

Milford, Kansas

Hollywood, Cal.

Havana, Cuba

**KFKB** 

KNX 2MG

INDEX BT FREQUENCIES	AND DIAL NUMBERS
1060 kilocycles 282.8 meters	
KWJJ 500 Portland, Ore. WBAL 10000 Baltimore, Md. WJAG 1000 Norfolk, Nebr. WTIC 50000 Hartford, Conn.	Wilbur Jerman Consolidated Gas, Elec. & Pwr. Co. Norfolk Daily News Travelers Brdcstg. Service Corp.
1070 kilocycles 280.2 meters	
KJBS 100 San Francisco, Cal. WAAT 300 Jersey City, N. J. WCAZ 50 Carthage, Ill. WDZ 100 Tuscola, Ill. WEAR 1000 Cleveland, Ohio WTAM 50000 Cleveland, Ohio	Julius Brunton & Sons Co. Bremer Broadcasting Corp. Carthage College James L. Bush WTAM and WEAR, Inc. WTAM and WEAR, Inc.
1080 kilocycles 277.6 meters	
WBT 5000 Charlotte, N. C. WCBD 5000 Zion, III. WMBI 5000 Chicago, III.	Station WBT, Inc. Wilbur Glenn Voliva Moody Bible Institute
1090 kilocycles 275.1 meters	
KFQA 5000 St. Louis, Mo. KMOX 5000 St. Louis, Mo. 2UF 10 Havana, Cuba	Voice of St. Louis, Inc. Voice of St. Louis, Inc. Benito V. Ferro
1100 kilocycles 272.6 meters	
KGDM 50 Stockton, Cal. WLWL 5000 New York City WPG 5000 Atlantic City, N. J.	E. F. Peffer Missionary Society of St. Paul Municipality of Atlantic City
1110 kilocycles 270.1 meters	
KSOO 2000 Sioux Falls, S. D. WRVA 5000 Richmond, Va. 2TW 20 Havana, Cuba	Sioux Falls Broadcast Assn. Larus & Bros. Co., Inc. Roberto E. Ramirez
1120 kilocycles 267.7 meters	
CFJC         15         Kamloops, B. C.           CFRC         500         Kingston, Ont.           CHGS         25         Summerside, P. E. I.           CJOC         50         Lethbridge, Alta.           CKPR         50         Midland, Ont.           KFSG         500         Los Angeles, Cal.           KMIC         500         Inglewood, Cal.           KRSC         50         Austin, Texas           WDBO         1000         Orlando, Fla.           WDBL         250         Wilwaukee, Wis.           WIOD         500         Miami Beach, Fla.           WISN         250         Milwaukee, Wis.           WTAW         500         College Station, Texas	N. S. Dalgleish & Sons Queen's University R. T. Holman, Ltd. Harold R. Carson Midland Brdestg. Corp. Echo Park Evang. Assn. Dalton's, Inc. Radio Sales Corp. KUT Broadcasting Co. Rollins College, Inc. WDEL, Inc. Marquette University Isle of Dreams Brdestg. Co. Evening Wisconsin Co. Agricultural & Mec. College
1130 kilocycles 265.3 meters	
KSL 5000 Salt Lake City WJJD 20000 Mooseheart, Ill. WOV 1000 New York City XEF 105 Oaxaca, Oax.	Radio Service Corp. of Utah Loyal Order of Moose International Brdcstg. Corp. Federico Zorrila
1140 kilocycles 263.0 meters	
KVOO 5000 Tulsa, Okla. WAPI 5000 Birmingham, Ala.	Southwestern Sales Corp. Alabama Polytechnic Institute
1150 kilocycles 260.7 meters	
WHAM 5000 Rochester, N. Y. 6BY 200 Cienfuegos, Cuba	Stromberg-Carlson Tel. Mfg. Co. Jose Ganduxe

## 1160 kilocycles 258.5 meters

Ft. Wayne, Ind. Wheeling, W. Va. 10000 wowo WWVA 5000

#### 1170 kilocycles 256.3 meters

KTNT WCAU 5000 Muscatine, Iowa Philadelphia, Pa. 10000 Havana, Cuba 100 2OL.

#### 1180 kilocycles 254.1 meters

Portland, Ore. State College, N. M. Minneapolis, Minn. New York City 5000 KOB WDGY 10000 1000 WGBS 500 Minneapolis, Minn. WHDI 500

#### 1190 kilocycles 252.0 meters

WICC 500 Bridgeport, Conn. 5000 San Antonio, Texas

#### 1200 kilocycles 249.9 meters

KFHA KFJB KFKZ KFWF KFXM KGCU KGDE  $\frac{100}{100}$ Gunnison, Colo Marshalltown, Iowa Kirksville, Mo. St. Louis, Mo. 15 100 San Bernardino, Cal. 100 Mandan, N. D Fergus Falls, Minn. Oldham, S. D. Yuma, Colo. 100 50 KGDY 15 KGEK 50 Fort Morgan, Colo. Los Angeles, Cal. KĞEW 100 KGFI 100 KĞFK 50 Hallock, Minn KGFK KGHI KGY KPPC KSMR KVOS KWG 100 Little Rock, Ark. Lacey, Wash. Pasadena, Cal. 10 50 Santa Maria, Cal. Bellingham, Wash. 100 100 100 Stockton, Cal. KXO WAB1 WABZ WBBY 100 El Centro. Cal Bangor, Maine New Orleans, La. 100 100 Charleston, S. C. Ponca City, Okla. Rapid City, S. D. Burlington, Vt. 75 100 WBBZ WCAT WCAX WCLO 100 100 100 Kenosha, Wis. Harrisburg, Pa. Gloucester, Mass. Knoxville, Tenn. Canton, Ohio WCOD 100 WEPS 100 WFBC WHBC 50 10 West De Pere, Wis. Utica, N. Y. WHBY 100 WIBX WIL 100 100 St. Louis, Mo. La Salle, Ill. WIL WJBC WJBL WJBW WKJC WLAP WLAP 100 100 Decatur, III. 30 New Orleans, La. 100 Lancaster. Pa. 30 Louisville, Ky. Ettrick, Va. 100 St Louis, Mo. Washington, Pa. Carbondale Pa. Springfield, Vt. Worcester, Mass. La Porte, Ind. WMAY WNBO 100 100 WNBW WNBX 5 10 WORC WRAF WRBL 100 100 50 Columbus, Ga. Hammond Ind. WWAE 100 XEA XES 101 Guadalajara, Jal. C. Lerdo, Dgo. Havana, Cuba 250

2BB

Main Auto Supply Co. West Virginia Brdcstg. Corp.

Norman Baker Universal Broadcasting Co. Oscar C. Orta

Western Broadcasting Co. College of Agriculture
Dr. George W. Young
General Broadcasting System, Inc.
Wm. Hood Dunwoody Indus. Inst.

Bridgeport Broadcasting Station, Inc. Southern Equipment Co.

Western College of Colorado

Marshall Electric Co., Inc.

State Teachers College

St. Louis Truth Center, Inc. J. C. and E. W. Lee Mandan Radio Association Jaren Drug Co. J. Albert Loesch and George W. Wright KCYS. 1200 Beehler Elec. Equipment Co. City of Fort Morgan MTRS. Ben S. McGlashan 249.9 Lautzenheiser & Mitchell Berean Bible Class St. Martin's College DIAL St. Martin's College
Pasadena Presbyterian Church
Santa Maria Valley R. R. Co.
KVOS, Inc.
Portable Wireless Tel. Co.
E. R. Irey and F. M. Bowles
First Universalist Church

Coliseum Place Baptist Church Washington Light Infantry C. L. Carrell State School of Mines University of Vermont C. E. Whitmore Norman R. Hoffman Matheson Radio Co., Inc.

First Baptist Church St. John's Catholic Church St. Norbert's College WIBX, Inc. Missouri Broadcasting Corp.

Hummer Furniture Co. Wm. Gushard Dry Goods Co. Charles C. Carlson, Jr. Kirk Johnson & Co American Brdcstg. Corp. of Ky. Robert Allen Gamble

Kingshighway Pres. Church John Brownlee Spriggs Home Cut Glass & China Co. First Congregational Church K. & B. Electric Co. The Radio Club, Inc.

David Parmer

Hammond-Calumet Brdcstg. Co Alberto Palos Sauza Cerveceria de Durango, S. A. Bernardo Barrie

F 43 1

#### 1210 kilocycles 247.8 meters

	•	
CFCO	50	Chatham, Ont.
CFNB	50	Fredericton, N. B.
CHWK	5	Chilliwack, B. C.
CKMC	15	Cobalt, Ont.
CKPC	50	Preston Ont
KDFN	100	Cospan Wyo
KDLR	100	Preston, Ont. Casper, Wyo. Devils Lake, N. D.
KFOR	100	Lincoln, Nebr.
KFVS	100	Cape Girardeau, Mo.
KGCR	100	Watertown, S. D.
KMJ	100	Fresno, Cal.
KPCB	100	Seattle, Wash.
KPQ	100	Seattle, Wash.
KWEA	100	
	100	Shreveport, La. Wilkes-Barre, Pa.
WBAX	100	
WCBS WCOH	100	Springfield, Ill.
WCRW	100	Yonkers, N. Y.
		Chicago, Ill.
WDWF	100	Cranston, R. I.
WEBE	100	Cambridge, Ohio
WEBQ	100	Harrisburg, Ill.
WEDC	100	Chicago, Ill.
WGBB	100	Freeport, N. Y.
WGCM	100	Gulfport, Miss
WHBF	100	Rock Island, Ill.
WHBU	100	Anderson, Ind.
WIBA	100	Madison, Wis.
WINR	100	Bay Shore, N. Y.
WJBI	100	Red Bank, N. J.
WJBU WJBY WJW	100	Lewisburg, Pa.
WIBI	50	Gadsden, Ala.
WIW	100	Mansfield, Ohio
WLCI	50	Ithaca, N. Y.
WLSI	100	Cranston, R. I.
WMAN	50	Columbus, Ohio
WMBG	100	Richmond, Va.
WOCL	25	Jamestown, N. Y.
WOMT	100	Manitowoc, Wis.
WPAW	100	Pawtucket, R. I. Greenville, Miss.
WRBQ	100	Greenville, Miss.
WRBU	100	Gastonia, N. C.
WSBC	100	Chicago, III. Springfield, Tenn.
WSIX	100	Springfield, Tenn.
WTAX	50	Streator, Ill.

Western Ontario ''Better Radio'' Club James S. Neill & Sons, Ltd. Chilliwack Brdcstg. Co., Ltd. R. L. MacAdam Wallace Russ Donald Lewis Hathaway Radio Electric Co. Howard A. Shuman Hirsch Battery & Radio Co. Cutler's Radio Brdcstg. Service The Fresno Bee Westcoast Brocstg Co.
Westcoast Brocstg Co.
William E. Antony
John H. Stenger, Jr.
H. L. Dewing & Chas. Messter
Westchester Brdcstg. Corp.
Clinton R. White
Dutee W. Flint
Roy W. Waller
First Trust & Savings Bank
Emil Denemark, Inc.
Harry H. Carman Westcoast Brdcstg Co. Harry H. Carman Southern Land Co., Inc. Beardsley Specialty Co. Citizens Bank Capital Times-Strand Theatre Radiotel Mfg. Co., Inc. Robert S. Johnson Bucknell University Charles J. Black Mansfield Broadcasting Assn. Lutheran Assn. of Ithaca The Lincoln Studios, Inc. W. E. Heskett Havens & Martin, Inc. A. E. Newton Francis M. Kadow Shartenburg & Robinson Co. J. Pat Scully
A. J. Kirby Music Co. World Battery Co., Inc. 638 Tire & Vulcanizing Co. Williams Hardware Co.

#### 1220 kilocycles 245.8 meters

KFKU	1000	Lawrence, Kans.
WCAD	500	Canton, N. Y.
WCAE	500	Pittsburgh, Pa.
WREN	1000	Lawrence, Kans.

University of Kansas St. Lawrence University Kaufman & Baer Co., Inc. Jenny Wren Co.

#### 1230 kilocycles 243.8 meters

Krio	100	Spokane, wasn.
KFQD	100	Anchorage, Alaska
KGĞM	250	Albuquerque, N. Mex.
KYA	1000	San Francisco, Cal.
WBIS	1000	Boston, Mass.
WFBM	1000	Indianapolis, Ind.
WNAC	1000	Boston, Mass.
WPSC	500	State College, Pa.
WSBT	500	South Bend, Ind.

Spokane Broadcasting Corp.
Anchorage Radio Club
New Mexico Broadcasting Co.
F. C. Dahlquist, Receiver
Shepard-Norwell Co.
Indianapolis Power & Light Co.
Shepard-Norwell Co.
Pennsylvania State College
South Bend Tribune

#### 1240 kilocycles 241.8 meters

KTAT	1000	Ft. Worth, Texas
WDAE	1000	Tampa, Fla.
WGHP	750	Detroit, Mich.
WJAD	1000	Waco, Texas
WRBC	500	Valparaiso, Ind.

Texas Air Transport Brdcst. Co. Tampa Publishing Co. American Brdcstg. Corp. Frank P. Jackson Immanuel Lutheran Church

INDEX BY FREQUENCIES A	ND DIAL NUMBERS
1250 kilocycles 239.9 meters	
KFMX 1000 KFOX 1000 Long Beach, Cal. KIDO 1000 Boise, Idaho KXL 500 Portland, Ore. WAAM 1000 Northfield, Minn. WOSU 1000 Newark, N. J. WGCP 250 Newark, N. J. WGMS 500 Minneapolis, Minn. WDB 1000 Paterson, N. J. WRHM 1000 Minneapolis, Minn. WTOC 500 Savannah, Ga.	Carleton College Nichols & Warinner, Inc. Boise Brdcstg. Station KXL Broadcasters, Inc. WAAM, Inc. St. Olaf College Jos. H. Uhalt May Radio Broadcast Corp. University of Minnesota Washburn-Crosby Co. Richard E. O'Dea Rosedale Hospital Co., Inc. Chamber of Commerce
1260 kilocycles 238.0 meters	
KOIL 1000 Council Bluffs, Iowa KRGV 500 Harlingen, Texas KVOA 500 Tucson, Ariz. KWWG 500 Brownsville, Texas WLBW 500 Oil City, Pa.	Mona Motor Oil Co. Valley Radio-Electric Corp. Robert M. Riculfi Chamber of Commerce Radio-Wired Program Corp.
1270 kilocycles 236.1 meters	
KFUM 1000 Colorado Spgs., Colo. KGCA 50 Decorah, Iowa KOL 1000 Seattle, Wash. KTW 1000 Seattle, Wash. KWLC 100 Decorah, Iowa WASH 500 Grand Rapids, Mich. WEAI 500 Ithaca, N. Y. WFBR 250 Baltimore, Md. WJDX 500 Jackson, Miss. WOOD 500 Grand Rapids, Mich.	W. D. Corley Charles W. Greenley Seattle Brdcstg. Co., Inc. First Presbyterian Church Luther College WASH Broadcasting Corp. Cornell University Baltimore Radio Show, Inc. Lamar Life Insurance Co. Walter B. Stiles, Inc.
1280 kilocycles 234.2 meters	
WCAM 500 Camden, N. J. WCAP 500 Asbury Park, N. J. WCFL 1000 Chicago, Ill. WDOD 1000 Chattanooga, Tenn. WOAX 500 Trenton, N. J. WRR 500 Dallas, Texas 2LR 50 Havana, Cuba	City of Camden Radio Industries Broadcast Co. Chicago Federation of Labor Chattanooga Radio Co., Inc. Franklyn J. Wolff City of Dallas Jose Lara  KCYS
1290 kilocycles 232.4 meters	MTR
KDYL 1000 Salt Lake City KFUL 500 Galveston, Texas KLCN 50 Blytheville, Ark. KTSA 1000 San Antonio, Texas WEBC 1000 Duluth, Minn. WJAS 1000 Pittsburgh, Pa. WNBZ 50 Saranac Lake, N. Y.	Intermountain Brdcstg. Corp. Will H. Ford C. L. Lintzenich Lone Star Broadcast Co. Head of Lake Brdcstg. Co. Pittsburgh Radio Supply House Smith & Mace
1300 kilocycles 230.6 meters	Se Se
KFH         500         Wichita, Kansas           KFJR         500         Portland, Ore.           KGEF         1000         Los Angeles, Cal.           KTBI         750         Los Angeles, Cal.           KTBR         500         Portland, Ore.           WBBR         1000         Rossville, N. Y.           WEVD         500         New York City           WHAP         1000         New York City           WHAZ         500         Troy, N. Y.           WOQ         1000         Kansas City, Mo.	Radio Station KFH Co. Ashley C. Dixon & Son Trinity Methodist Church Bible Institute of Los Angeles M. E. Brown Peoples Pulpit Association Debs Memorial Radio Fund, Inc. Defenders of Truth Society, Inc. Rensselaer Polytechnic Institute Unity School of Christianity

TED LINES

Jas. McClatchy Co. Boone Biblical College C. S. Tunwall

1310 kilocycles 228.9 meters

Sacramento, Cal. Boone, Iowa Ft. Dodge, Iowa

100 100 100

			The British Companies
KFPL	100	Dublin, Texas	C. C. Baxter
KFPM	15	Greenville, Texas	The New Furniture Co.
KFUP	100	Denver, Colo.	
KFXJ	50	Edgewater, Colo.	Fitzsimmons General Hospital
KFXR	100	Oklahoma City	R. G. Howell
KGCX	100	W-16 D-1-4 M4	Exchange Ave. Baptist Church
KGEZ	100	Wolf Point, Mont.	First State Bank of Vida
KGFW	50	Kalispell, Mont.	Chamber of Commerce
		Ravenna, Nebr.	Otto F. Sothman and Roy H. Connell
KGHG KMED	50 50	McGeehee, Ark.	Chas. W. McCollum
KRMD	50	Medford, Ore.	Mrs. W. J. Virgin
KTSL	100	Shreveport, La.	Robert M. Dean
KTSM	100	Shreveport, La.	Houseman Sheet Metal Works, Inc.
KIOW		El Paso, Texas	W. S. Bledsoe & W. T. Blackwell
KWCR	100	Cedar Rapids, Iowa.	Harry F. Paar
KXRO	75	Aberdeen, Wash.	KXRO, Inc.
WAGM	50	Royal Oak, Mich.	Robert L. Miller
WBOW	100	Terre Haute, Ind.	Banks of Wabash, Inc.
WBRE	100	Wilkes-Barre, Pa.	Louis G. Baltimore
WCLS	100	Joliet, III.	WCLS, Inc.
WDAH	100	El Paso, Texas	Trinity Methodist Church
WEBR	100	Buffalo, N. Y.	Howell Broadcasting Co., Inc.
WFBG	100	Altoona, Pa.	Wm. F. Gable Co.
WFDF	100	Flint, Mich.	Frank D. Fallain
WFKD	50	Philadelphia, Pa.	Foulkrod Radio Engineering Co.
WGAL	15	Lancaster, Pa.	Lancaster Electric Supply Co.
WGH	100	Newport News, Va.	Virginia Brdcstg. Co., Inc.
WIBU	100	Poynette, Wis.	William C. Forrest
WJAC	100	Johnstown, Pa.	Johnstown Automobile Co.
WJAK	50	Marion, Ind.	Marion Brdcstg. Co.
WJDZ WKAV	100	Winston-Salem, N. C.	Winston-Salem Journal Co.
WKAV	100	Laconia, N. H.	Laconia Radio Club
WKBB	100	Joliet, Ill.	Sanders Bros.
WKBC	100	Birmingham, Ala.	R. B. Broyles Furn. Co.
WKBS	100	Galesburg, Ill.	Permil N. Nelson
WLBC	50	Muncie, Ind.	Donald A. Burton
WMBL	100	Lakeland, Fla.	Benford's Radio Studios
WNAT	100	Philadelphia, Pa.	Albert A. Walker
WNBH	100	New Bedford, Mass.	New Bedford Broadcasting Co.
WNBJ	50	Knoxville, Tenn.	Lonsdale Baptist Church
WOBT	15	Union City, Tenn.	Tittsworth's Radio & Music Shop
WOL	100	Washington, D. C.	American Broadcasting Co.
WRAW	100	Reading, Pa.	Avenue Radio & Electric Shop
WRBI	20	Tifton, Ga.	Kent's Furniture and Music Store
WRK	100	Hamilton, Ohio	S. W. Doron & J. C. Slade
WSAJ	100	Grove City, Pa.	Grove City College
WSJS	100	Winston-Salem, N. C.	Winston-Salem Journal Co.
			· ·

#### 1320 kilocycles 227.1 meters

KGHF 250	Pueblo, Colo.
KGIQ 250	Twin Falls, Idaho
KID 250	Idaho Falls, Idaho
WADC 1000	Akron, Ohio
WSMB 500	New Orleans, La.

### 1330 kilocycles 225.4 meters

KGB	250	San Diego, Cal.
KSCJ WDRC	1000 500	Sioux City, Iowa New Haven, Conn.
WSAI	500	Cincinnati, Ohio
WTAQ	1000	Eau Claire, Wis.

#### 1340 kilocycles 223.7 meters

KFPW	50	Carterville, Mo.
KFPY	500	Spokane, Wash.
KMO	500	Tacoma, Wash.
WCOA	500	Pensacola, Fla.
WSPD	1000	Toledo, Ohio

#### 1350 kilocycles 222.1 meters

KWK	1000	St. Louis, Mo.
WBNY	250	New York City
WCDA	250	New York City
WKBQ	250	New York City
WMSG	250	New York City

C. P. Ritchie & J. E. Finch Radio Broadcasting Corp. Jack W. Duckworth, Jr. Allen T. Simmons Saenger Theatre & Maison Blanche

Pickwick Brdcstg. Corp. Perkins Bros. Co. Doolittle Radio Corp. Crosley Radio Corp., Lessee Gillette Rubber Co.

Rev. Lannie W. Stewart Symons Broadcasting Co. KMO, Inc. City of Pensacola Toledo Broadcasting Co.

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

#### 1360 kilocycles 220.4 meters

**KFBB** 500 Great Falls, Mont. KGER KGIR 100 Long Beach, Cal. 250 Butte, Mont. KPSN 1000 Pasadena, Cal. Chicago, Ill. WGES 500 WJKS WLEX 500 Gary, Ind. 500 Lexington, Mass. WMAF 500 S. Dartmouth, Mass. WQBC 300 Utica, Miss.

Buttery Broadcast, Inc.
C. Merwin Dobyns
Symons Broadcasting Co.
Pasadena Star-News
Oak Leaves Brdcstg. Station, Inc.
Johnson-Kennedy Radio Corp.
Lexington Air Stations
Round Hills Radio Corp.
Chamber of Commerce

#### 1370 kilocycles 218.7 meters

100 KCRC KFBL Enid, Okla. Everett, Wash. Astoria, Ore. Grand Forks, N. D. 50 KFJI KFJM KFJZ KFLX 100 500 Ft. Worth, Texas Galveston, Texas 100 100 KGAR 100 Tucson, Ariz. KGBX 100 St. Joseph, Mo. St. Joseph, Mo. San Antonio, Texas Dell Rapids, S. D. Oklahoma City Raton, N. M. San Angelo, Texas KGCI 100 KGDA 50 KGDA KGFG KGFL KGKL KGRC KIT KLO 100 50 100 San Angelo, Texas San Antonio, Texas Yakima, Wash. Ogden, Utah Reno, Nevada Marshfield, Ore. Berkeley, Cal. Seattle, Wash. Kansas City, Mo. Hayward, Cal. Richmond, Va. Baltimore, Md. Philadelphia. Pa. 100 100 100 KOH 100 KÖÖS KRE 50 100 KVL 100 KWKC KZM 100 100 WBBL 100 WCBM WELK 100 Philadelphia, Pa. Collegeville, Minn. Fort Wayne, Ind. 100 WFBJ 100 WGL 100 WHBD Bellefontaine, Ohio 100 Memphis, Tenn. Calumet, Mich. Jackson, Mich. Ypsilanti, Mich. WHBQ 100 100 WIBM 100 WJBK WJBO WJDW WMBO 50 100 New Orleans, La. Emory, Va. Auburn, N. Y. Tampa, Fla. 100 100 WMBR 100 Erie, Pa.
Wilmington, N. C.
Racine, Wis.
Buffalo, N. Y. WRAK WRBT 50 100 WRJN WSVS 100 50

Champlin Refining Co. Leese Bros. KFJI Broadcasters Inc University of North Dakota H. C. Meacham George Roy Clough
Tucson Motor Service Co.
Foster-Hall Tire Co. Liberto Radio Sales Co. Home Auto Co. Faith Tabernacle Assn. Hubbard & Murphy KGKL Inc., Opr. by Ragsdale Auto Eugene J. Roth Carl B. Haymond Peery Building Co. Jay Peters H. H. Hanseth First Congregational Church Arthur C. Dailey Wilson Duncan Brdcstg. Co. Leon P. Tenney Grace Covenant Presbyterian Church Baltimore Brdcstg. Corp. Howard R. Miller
St. John's University
Fred C. Zieg
F. P. Moler Broadcasting Station WHBQ, Inc. Upper Michigan Brdcstg. Co. C. L. Carrell James F. Hopkins Valdemar Jensen Emory & Henry College Radio Service Laboratories Radio Service Laboratories F. J. Reynolds C. R. Cummins Wilmington Radio Association Racine Broadcasting Corp. Seneca Vocational School

#### 1380 kilocycles 217.3 meters

KQV 500 Pittsburgh, Pa. KSO 500 Clarinda, Iowa WKBH 1000 La Crosse, Wis. WSMK 200 Dayton, Ohio Doubleday-Hill Electric Co.
Berry Seed Co.
Joseph Callaway
Stanley M. Krohn, Jr.

### 1390 kilocycles 215.7 meters

KLRA 1000 Little Rock, Ark. KOY 500 Phoenix, Ariz. KUOA 1000 Fayetteville, Ark. KWSC 500 Pullman, Wash. WHK 1000 Cleveland, Ohio

Arkansas Broadcasting Co. Nielson Radio Supply Co. University of Arkansas State College of Washington Radio Air Service Corp.

#### 1400 kilocycles 214.2 meters

KOCW	250	Chialanaha Olala
		Chickasha, Okla.
WBBC	500	Brooklyn, N. Y.
WCGU	500	Coney Island, N. Y.
WCMA	500	Culver, Ind.
WKBF	500	Indianapolis, Ind.
WLTH	500	Brooklyn, N. Y.
WSGH	500	Brooklyn, N. Y.

#### College for Women Brooklyn Broadcasting Corp. U. S. Broadcasting Corp. Culver Military Academy Indianapolis Broadcasting, Inc. The Voice of Brooklyn, Inc. Amateur Radio Specialty Co.

#### 1410 kilocycles 212.6 meters

KFLV	500	Rockford, Ill.
KGRS	1000	Amarillo, Texas
WBCM	500	Bay City, Mich.
WDAG	250	Amarillo, Texas
WHBL	500	Sheboygan, Wis.

Rockford Broadcasters Inc. Gish Radio Service James E. Davidson National Radio & Brdcstg. Corp. Press Pub. Co. & C. L. Carrell

#### 1420 kilocycles 211.1 meters

_	
100	Portland, Ore.
100	Fond du Lac, Wis.
	Holy City, Cal.
	Seattle, Wash.
	Jerome, Idaho
	Flagstaff, Ariz.
	Abilene, Texas
	Alva, Okla.
	San Francisco, Cal.
	Trinidad, Colo.
	Las Vegas, Nevada
	Sand Point, Idaho
	Red Oak, Iowa
	Minot, N. Dak.
	Eugene, Ore.
	San Antonio, Texas
5	Houston, Texas
30	Erie, Pa.
10	Tupper Lake, N. Y.
100	Bluefield, W. Va.
100	Ottumwa, Iowa
50	Steubenville, Ohio
100	Wilmington, Del.
50	Battle Creek, Mich.
100	Kansas City, Kas.
100	Lexington, Mass.
100	Detroit, Mich.
100	Joplin, Mo.
10	Jamaica, N. Y.
30	Patchogue, N. Y.
60	Weirton, W. Va.
100	Boston, Mass.
50	Cumberland, Md.
	100 100 100 50 100 100 100 100 100 100 1

Benson Polytechnic Institute Reporter Printing Co.
W. E. Riker
KFQW, Inc.
Service Radio Co.
Mary M. Costigan
T. E. Kirksey
KGFF Broadcasting Co.
Golden Gate Brdestg. Co.
Trinidad Creamery Co., Inc.
Las Vegas, Nevada, Radio Corp.
C. E. Twiss and F. H. McCann
Red Oak Radio Corp.
E. C. Reineke
Eugene Broadcasting Station
Alamo Brdcstg. Co.
Uhalt Electric
Erle Dispatch-Herald
George Franklin Bissell
Daily Telegraph
Poling Electric Co.
George W. Robinson
Delaware Broadcasting Co., Inc.
Enquirer-News Co.
WLBF Broadcasting Co.
Lexington Air Stations
Michigan Broadcasting Co., Inc.
Edwin Dudley Aber
Peter J. Prinz
Nassau Broadcasting Corp.
J. H. Thompson
Tremont Temple Baptist Church
Cumberland Broadcasting Co.

#### 1430 kilocycles 209.7 meters

KPLA	1000	Los Angeles, Cal.
WBAK	500	Harrisburg, Pa.
WBRL	500	Manchester, N. H.
WCAH	500	Columbus, Ohio
WGBC	500	Memphis, Tenn.
WHP	500	Harrisburg, Pa.
WNBR	500	Memphis Tenn.

Pacific Development Radio Co., Inc. Penna. State Police Booth Radio Laboratories Commercial Radio Service Co. First Baptist Church Pennsylvania Brdcstg. Co. John Ulrich

## 1440 kilocycles 208.2 meters

KLS	250	Oakland, Cal.
WABO	500	Rochester, N. Y.
WCBA	250	Allentown, Pa.
WHEC	500	Rochester N. Y.

Warner Bros. Hickson Electric Co. B. B. Musselman Hickson Electric Co.

INDEX BY FREQUENCIES	AND DIAL NUMBERS
WMBD 500 Peoria Heights, III. WNRC 250 Greensboro, N. C. WOKO 500 Poughkeepsie, N. Y. WSAN 250 Allentown, Pa. WTAD 500 Quincy, III.	Peoria Heights Radio Laboratory Wayne M. Nelson Hudson Valley Broadcasting Company Allentown Call Publishing Co. Ills. Stock Medicine Brdcstg. Corp.
1450 kilocycles 206.8 meters	
KTBS 1000 Shreveport, La. WBMS 250 Fort Lee, N. J. WCSO 500 Springfield, Ohio WFJC 500 Akron, Ohio WIBS 250 Elizabeth, N. J. WKBO 250 Jersey City, N. J. WSAR 250 Fall River, Mass. WTFI 250 Toccoa, Ga.	Elliott & Steere WBMS Broadcasting Corp. Wittenberg College W. F. Jones Broadcast, Inc. New Jersey Broadcasting Corp. Camith Corp. Radio Investment Co. Doughty & Welch Electric Co. Toccoa Falls Institute
1460 kilocycles 205.4 meters	
KSTP 10000 St. Paul, Minn. WJSV 10000 Mt. Vernon Hills, Va.	National Battery Brdcstg. Co. Independent Publishing Co.
1470 kilocycles 204.0 meters	
KFJF 5000 Oklahoma City KGA 5000 Spokane, Wash. WKBW 5000 Buffalo, N. Y.	National Radio Mfg. Co. Ralph A. Horr, Receiver Churchill Evangelistic Assn.
1480 kilocycles 202.6 meters	
WCKY 5000 Covington, Ky. WJAZ 5000 Chicago, Ill. WORD 5000 Chicago, Ill. WSOA 5000 Forest Park, Ill.	L. B. Wilson, Inc. Zenith Radio Corp. People's Pulpit Association Radiophone Brdcstg. Corp.
1490 kilocycles 201.2 meters	
KPWF 5000 Westminster, Cal. WFBL 750 Syracuse, N. Y. WLAC 5000 Nashville, Tenn. WTNT 5000 Nashville, Tenn.	Pacific Western Brdcstg. Fed. The Onondaga Co. Life & Casualty Insurance Co. Tennessee Publishing Co.
1500 kilocycles 199.9 meters	
KDB         100         Santa Barbara, Cal.           KGDR         100         San Antonio, Texas           KGFI         100         Corpus Christi, Texas           KGKB         100         Brownwood, Texas           KPJM         100         Prescott, Ariz.           KREG         100         Santa Ana, Cal.           KUJ         100         Longview, Wash.           KVEP         15         Portland, Ore.           WCLB         100         Brooklyn, N. Y.           WHFC         100         Cicero, Ill.           WKBI         50         Chicago, Ill.           WKBZ         50         Ludington, Mich.           WLDE         100         Brookville, Ind.           WLDE         100         Boston, Mass.           WMBJ         100         Pittsburgh, Pa.           WMBJ         100         Brooklyn, N. Y.           WMES         50         Boston, Mass.           WMPC         100         Bristol, Tenn.           WOPI         100         Philadelphia, Pa.           WRBJ         10         Philadelphia, Pa.           WRBJ         10         Woodside, N. Y.	Santa Barbara Brdestg. Co. The Milan Radio Company, Inc. Eagle Brdestg. Co., Inc. Ft. Bend County School Board Eagle Publishing Co. Miller & Klahn Pacific Western Brdestg Foundation Columbia Brdestg. Co., Inc. Schaeffer Radio Co. Arthur Faske Victor C. Carlson Triangle Broadcasters Fred L. Schoenwolf Knox Battery & Electric Co. K. L. Ashbacker John N. Brahy Boston Brdestg. Co. LeRoy Joseph Beebe Rev. John W. Sproul Paul J. Gollhofer Mass. Educational Society First M. E. Church Hewitt-Wood Radio Co. Radiophone Service Co. Wm. Penn Broadcasting Co. Woodruff Furniture Co., Inc. Long Island Brdestg. Corp.

ALABAMA				Santa Maria J-2-b Stockton H-2-b	100 50	KSMR KGDM	1200 1100
Birmingham K-19-a	5000 100 10	WAPI WBRC WKBC	1140 930 1310	Westminster	100 5000	KGDM KWG KPWF	1200 1490
Gadsden K-20-a	50	WJBY	1210	COLOBADO			
ALASKA				COLORADO Colo. Springs H-10	1000	KFUM	1270
Anchorage	100	KFOD	1230	Denver G-10-b	250 100	KFEL KFUP	630 1310
Ketchikan	500	KGBU	900		250 12500	KFXF KOA KPOF	630 830
ARIZONA				Dupont Edgewater G-10	500 1000 50	KPOF KLZ KFXJ	880 560 1310
Flagstaff J-7	100 500	KFXY KFAD	1420 620	Fort Morgan G-11 Greeley F-10	100 500	KGEW KFKA	1200 880
Phoenix K-7 Prescott J-6	500 100	KOY	1390 1500	Gunnison H-9 Pueblo H-11	100 250	KFHA KGHF	1200 1320
Tucson L-7	100 500	KPJM KGAR KVOA	1370 1260	Trinidad H-10 Yuma G-11	100 50	KGIW KGEK	1420 1200
ARKANSAS	300	RYOA	1200	Tuma G-11	30	ROER	1200
Blytheville I-18	50	KLCN	1290	CONNECTICUT	500	WICC	1100
Fayettesville I-16 Hot Springs J-16	1000 10000	KUOA KTHS	1390 970	Bridgeport F-26 Hartford E-26-d	500 50000	WICC	1190 1060
Little Rock J-17	100 250	KGHI KGJF	1200 890	Mansfield E-27-I New Haven F-26-b	250 500	WCAC WDRC	600 1330
McGehee K-17	1000 50	KLRA KGHG	1390 1310	DELAWARE			
	00			Wilmington G-25	250	WDEL	1120
CALIFORNIA  Particles H. L.	100	KRE	1370		100	WILM	1420
Berkeley H-1-a Burbank J-4 Culver City K-3	500 250	KELW KFVD	780 1000	DISTRICT OF C			
El Centro K-5 Fresno I-3	100 100	KXO KMJ	1200 1210	Washington G-24-c	250 500	WMAL WRC	630 950
Hayward H-2 Hollywood K-3	100 250	KZM KFQZ	1370 850		100	WOL	1310
Hollywood N-3	1000 500	KFWB KMTR	950 570	FLORIDA			
Holy City 1-2 Inglewood K-4	100 500	KFQU KMIC	1420 1120	Clearwater N-21 Gainesville M-21	1000 5000	WFLA WRUF	620 830
Long Beach K-4-a	1000 100	KFOX KGER	1250 1360	Jacksonville M-22 Lakeland N-22	1000 100	WJAX WMBL	900 1310
Los Angeles K-3-b	500 5000	KEJK KFI	710 640	Miami O-23 Miami Beach O-23	1000 1000	WQAM WIOD	560 1120
	500 1000	KFSG KGEF	1120 1300	Orlando N-22 Pensacola L-19	1000 500	WDBO WCOA	1120 1340
	100	KGFJ	1200	St. Petersburg N-21 Tampa N-22-b	1000 1000	WSUN WDAE	620 1240
	1000 25000	KHJ KNX	1050	Tunpu III	100	WMBR	1370
	1000 500	KPLA KTM	1430 780	GEORGIA			
Oakland H-1-b	750 500	KTBI KFWM	1300 930	Atlanta K-20-a	250 1000	WGST WSB	890 740
	7500 250	KGO KLS	790 1440	Columbus K-20 Macon K-21	50 250	WRBL WMAZ	1200 890
	500	KLX	880	Savannah	500	WTOC WRBI	1250
Pasadena J-4	500 50	KTAB KPPC	560 1200	Tifton Toccoa J-21	20 250	WTFI	1310 1450
Sacramento H-2-a	1000 100	KPSN KFBK	1360 1310				
San Bernardino San Diego K-4-b	100 500	KFXM KFSB	1200 600	HAWAII	1000	vct.	0.40
San Francisco H-1-c	250 1000	KGB KFRC	1330 610	Honolulu	1000	KGU	940
	500 50	KFWI	930 1420	IDAHO			
	100 5000	KGGC KJBS KPO	1070 680	Boise D-4 Idaho Falls, D-7	1000 250	KIDO KID	1250 1320
	1000	KYA	1230	Jerome E-5	50	KFXD	1420
San Jose I-2 Santa Ana K-4	500 1000	KQW KREG	1010 1500	Pocatello E-7 Sand Point	250 100	KSEI KGKX	900 1420
Santa Barbara J-3	100	KDB	1500	Twin Falls E-5	250	KGIQ	1320

ILLINOIS				Ottumwa F-17	100	WIAS	1420 1420
Carthage F-17-e	50	WCAZ	1070	Red Oak F-15 Shenandoah F-15-c	100 <b>500</b>	KICK KFNF	890
Chicago E-19-g	5000 5000	KFKX KYW	1020 1020	Sioux City E-15	500 1000	KMA KSCJ	930 1330
	500 25000	WAAF	920 770	Waterloo F-17	250	WMT	600
	1000	WBBM WCFL	1280	KANSAS			
	100 100	WCRW WEDC	1210 1210	Kansas City	100	WLBF	1420
	50000	WENR	870	Lawrence G-15-a	1000	KFKU	1220
	500 25000	WGES WGN	1360 720	Manhattan G-14-a	1000 500	WREN KSAC	1220 580
	1000 5000	WIBO	570 1480	Milford G-14 Topeka G-14	5000 500	KFKB WIBW	1050 580
	25000	WJAZ WJBT WKBI	780	Wichita H-14-a	500	KFH	1300
	50 50000	WKBI WLS	1500 870	KENTUCKY			
	5000	WMAQ	670	Covington	5000	WCKY	1480
	5000 5000	WMBI WORD	1080 1480	Hopkinsville I-19	1000	WFIW	940
	500 100	WPCC WSBC	570 1210	Louisville H-20	10000 30	WHAS WLAP	820 1200
Cicero	100	WHEC	1500	LOUISIANA			
Decatur G-18 Evanston E-19	100 100	WJBL WEHS	1200 1500	New Orleans M-17	100	WABZ	1200
Forest Park	5000	WSOA WKBS	1480 1310	New Offeatis WI-17	1000	WDSU	1250
Galesburg F-18-a Harrisburg H-18-b	100 100	WEBQ	1210		100 30	WJBO WJBW	1370 1200
Joliet E-19-f	100 100	WCLS	1310 1310		500 5000	WSMB WWL	1320 850
La Salle F-18-d	100	WKBB WJBC WJJD	1200	Shreveport K-16	50	KRMD	1310
Mooseheart E-18-e Peoria Heights G-18	20000 500	WMBD	1130 1440		1000 100	KTBS KTSL	1450 1310
Quincy G-17 Rockford E-18-c	500 500	WTAD KFLV	1440 1410		100	KWEA KWKH	1210 850
Rock Island F-17-c	100	WHBF	1210		10000	KWKII	030
Springfield G-18 Streator F-18-e	100 50	WCBS WTAX	1210 1210	MAINE		<b>-</b>	
Streator F-18-e Tuscola G-19-b Urbana G-19-a	100 250	WDZ WILL	1070 890	Bangor C-28-b	100 250	WABI WLBZ	1200 620
Zion E-19-c	5000	WCBD	1080	Portland D-28-b	500	WCSH	940
INDIANA				MARYLAND			
Anderson G-20-a	100	WHBU	1210	Baltimore G-24-a	10000 250	WBAL WCAO	1060 600
Brookville G-20	100	WKBV	1500		100	WCBM	1370
Culver F-19-d Evansville H-19	500 500	WCMA WGBF	1400 630	Cumberland G-23	250 50	WFBR WTBO	1270 1420
Fort Wayne F-20-b	100 10000	WGL WOWO	1370 1160		_		
Gary F-19 Hammond F-19	500 100	WJKS WWAE	1360 1200	MASSACHUSET Boston E-27-c	1000	wbis	1230
Indianapolis G-19-c	1000	WFBM	1230	Boston E-27-c	500	WBZA	990
La Porte F-19-c	500 100	WKBF WRAF	1400 1200		1000 100	WEEI WLOE	590 1500
Marion Muncie G-20	50 50	WJAK WLBC	1310 1310		50 ,1000	WMES WNAC	1500 1230
South Bend F-20-a	500	WSBT	1230		100	WSSH	1420
Terre Haute G-19 Valparaiso F-19-b	100 <b>50</b> 0	WBOW WRBC	1310 1 <b>24</b> 0	Fall River E-27 Gloucester E-27	250 100	WSAR WEPS	1450 1200
· diputation I is a				Lexington E-27	1000 500	WHDH	830 1360
IOWA	E000	WOI	560		100 100	WLEY WNBH	1420 1310
Ames E-16-c Boone E-16	5000 100	WOI KFGQ	560 1310	New Bedford E-27-g S. Dartmouth E-27	500	WMAF	1360
Cedar Rapids E-17-a Clarinda E-15-c	100 500	KWCR KSO	1310 1380	Springfield E-26-b Wellesley Hills E-27	15000 250	WBZ WBSO	990 920
Council Bluffs F-15-b	1000	KOIL	1260	Worcester E-27-b	250 100 250	WORC WTAG	1200 580
Davenport F-17-a Decorah D-17	5000 50	WOC KGCA	1000 1270		230	,, 140	300
Des Moines F-16-a	100 5000	KWLC WHO	1270 1000	MICHIGAN			
Fort Dodge E-16-a	100	KEIY	1310	Battle Creek E-20	50 500	WKBP WBCM	1420 1410
lowa City E-17-b Marshalltown E-16-d	500 100	WSUI KFJB	600 1200	Bay City D-21 Berrien Spgs. E-19	1000	WEMC	590
Muscatine F-17-b	5000	KTNT	1170	Calumet B-18	100	WHDF	1370

Detroit E-21-g	750 5000	WGHP	1240 750	NEBRASKA			
East Lansing E-20-b Flint E-21-a Grand Rapids E-20-a	100 1000 1000 100 500 500	WJR WMBC WWJ WKAR WFDF WASH WOOD	1420 920 1040 1310 1270 1270 1370	Clay Center G-14 Lincoln F-14-b Norfolk E-14-c Omaha F-15-a	1000 5000 100 500 1000 500	KMMJ KFAB KFOR WCAJ WJAG WAAW	740 770 1210 590 1060
Jackson E-20 Lapeer E-21 Ludington D-19 Royal Oak E-21-e Ypsilanti E-21-f	100 100 50 50 50	WIBM WMPC WKBZ WAGM WJBK	1370 1500 1500 1310 1370	Ravenna F-13 York F-13 NEVADA	1000 50 500	WOW KGFW KGBZ	590 1310 930
MINNESOTA				Las Vegas Reno G-3	100 100	KGIX KOH	1420 1370
Collegeville C-15 Duluth B-17 Fergus Falls B-15	100 1000 50	WFBJ WEBC KGDE	1370 1290 1200	NEW HAMPSHI		KOH	1370
Hallock A-14 Minneapolis C-16-b	50 7500 1000 500 500	KGFK WCCO WDGY WGMS WHDI	1200 810 1180 1250 1180	Laconia D-27 Manchester E-27	100 500	WKAV WBRL	1310 1430
	500 1000	WLB WRHM	1250 1250	NEW JERSEY			
Northfield D-16 St. Paul C-16-c	1000 1000 10000	KFMX WCAL KSTP	1250 1250 1460	Asbury Park G-26 Atlantic City G-25 Camden F-25-f Elizabeth F-26-h Fort Lee F-26	500 5000 500 250 250	WCAP WPG WCAM WIBS WBMS	1280 1100 1280 1450 1450
MISSISSIPPI				Jersey City F-26-d	300 250	WAAT WKBO	1070 1450
Columbus K-18 Greenville K-17 Gulfport M-18 Hattiesburg L-18 Jackson Utica L-17	500 100 100 10 500 300	WCOC WRBQ WGCM WRBJ WJDX WQBC	880 1210 1210 1500 1270 1360	Paterson F-26-c Red Bank G-26 Trenton F-25	1000 250 250 5000 1000 100 500	WAAM WGCP WNJ WOR WODA WJBI WOAX	1250 1250 1450 710 1250 1210 1280
MISSOURI				NEW MEXICO			
Carterville Cp. Girardeau H-18-c Columbia G-16-b Independence G-16-c Jefferson City H-16-a	50 100 500 1000 500	KFPW KFVS KFRU KMBC WOS	1340 1210 630 950 630	Albuquerque Raton I-11 State College K-9	250 50 10000	KGGM KGFL KOB	1230 1370 1180
Joplin H-16 Kansas City G-15-b	100 100 1000	WMBH KWKC WDAF	1420 1370 610	NEW YORK			
Kirksville F-16-c St. Joseph G-15 St. Louis H-18-a	500 1000 15 2500 100 5000	WHB WOQ KFKZ KFEQ KGBX KFQA	950 1300 1200 560 1370 1090	Auburn E-24 Bay Shore F-26-h Binghamton E-25 Brooklyn F-26-f	100 100 50 500 250 100	WMBO WINR WNBF WBBC WCDA WCLB	1370 1210 1500 1400 1350 1500
	500 100 5000 500 1000 1000 100 100	KFŮO KFWF KMOX KSD KWK WEW WIL WMAY	550 1200 1090 550 1350 760 1200 1200	Buffalo E-23-a	500 100 500 100 1000 5000 1000 750	WLTH WMBQ WSGH WEBR WGR WKBW WKEN	1400 1500 1400 1310 550 1470 1040 900
MONTANA				Canton D-25 Cazenovia E-25-b	50 500 250	WSVS WCAD WMAC	1370 1220 570
Billings C-8 Butte C-7 Great Falls A-8	500 250 500	KGHL KGIR KFBB	950 1360 1360	Coney Island F-26 Freeport F-26-1 Ithaca E-24-d	500 100 500 50	WCGU WGBB WEAI WLCI	1400 1210 1270 1210
Kalispell A-5 Missoula B-6 Wolf Point	100 500 100	KGEZ KUOM KGCX	1310 570 1310	Jamaica F-26-f Jamestown E-23-b Long Island City F-26	10 25 100	WMRJ WOCL WLBX	1420 1210 1210 1500

New York City F-26	5000	WABC	850	Steubenville F-22	50	WIBR	1420
	250 5000	WBNY WBOQ	1350 860	Toledo F-21-a Youngstown F-22	1000 500	WSPD WKBN	1340 570
	50000	WEAF	660				
	500 500	WEVD WGBS	1300 1180	OKLAHOMA			
	1000 250	WHAP WHN	1300 1010	Alva I-13	100	KGFF	1420
	30000	WIZ	760	Chickasha J-14-b	250	KOCW	1400
	250 5000	WKBQ WLWL	1350 1100	Enid I-14 Norman J-14-a	100 500	KCRC WNAD	1370 1010
	500	WMCA	570 1350	Oklahoma I-14-b	5000	KFJF KFXR	1470
	250 500	WMSG WNYC	570		100 100	KGFG	1310 1370
	1000 250	WOV WPAP	1130 1010	Picher I-15	1000 500	WKY KGGF	900 1010
	500	WPCH	810	Ponca City I-14	100	WBBZ	1200
	250 250	WQAO WRNY	1010 1010	Tulsa I-15	5000	KVOO	1140
Patchogue	30	WPOE	1420	ODECON!			
Poughkeepsie F-26-a Rochester E-24-b	500 500	WOKO WABO	1440 1440	OREGON			
	5000 500	WHAM WHEC	1150 1440	Astoria C-1-a Corvallis D-1	100 1000	KFJI KOAC	1370 550
Rossville F-26	1000	WBBR	1300	Eugene D-1	100	KORE	1420
Saranac Lake D-26 Schenectady E-25-c	50 50000	WNBZ WGY	1290 790	Marshfield E-1 Medford E-1	50 50	KOOS KMED	1370 1310
Syracuse E-24-c	750	WFBL	900	Portland C-1-b	5000	KEX	1180
Troy E-21-a	250 500	WSYR WHAZ	570 1300		100 500	KFIF KFJR KGW	1420 1300
Tupper Lake D-25	10 100	WHDL	1420		1000 1000	KGW KOIN	620 940
Utica E-25-a Woodside F-26	100	WIBX WWRL	1200 1500		500	KTBR KVEP	1300
Yonkers E-26	100	WCOH	1210		15 500	KVEP KWJJ	1500 1060
NORTH CAROL	LINA				500	KXĽ	1250
Asheville J-21	1000 5000	WWNC WBT	570 1080	PENNSYLVANIA			
Charlotte J-22 Gastonia J-22	100	WRBU	1210	Allentown F-25-c	250	WCBA	1440
Greensboro I-22 Raleigh I-23	250 1000	WNRC WPTF	1440 680	Altoona F-24-c	250 100	WSAN WFBG	1440 1310
Wilmington J-24 Winston-Salem	50 100	WRBT WJDZ	1370 1310	Carbondale F-25	5	WNBW	1200
winston-Salem	100	WSJS	1310	Elkins Park G-25-c Erie E-23	50 30	WIBG WEDH	930 1420
NODELLDARO					50 100	WRAK WSAJ	1370 1310
NORTH DAKOT				Grove City F-23-b Harrisburg F-24-d	500	WBAK WCOD	1430
Bismarck B-12 Devils Lake A-13	500 100	KFYR KDLR	550 1210		100 500	WCOD WHP	1200 1430
Fargo B-14	1000	WDAY	940	Johnstown F-23-d	100	WJAC WGAL	1310
Grand Forks A-14 Mandan B-12	500 100	KFJM KGCU	1370 1200	Lancaster G-25-a	15 100	WKIC	1310 1200
Minot A-12	100	KLPM	420	Lewisburg F-24-b	100 500	WJBU WLBW	1210 1260
OHIO				Oil City F-23-a Philadelphia G-25-d	10000	WCAU	1170
Akron F-22-b	1000	WADC	1320		100 500	WELK WFAN	1370 610
	500	WFJC	1450		500	WFI	<b>5</b> 60
Bellefontaine G-21-a Cambridge F-22	100 100	WHBD WEBE	1370 1210		50 500	WFKD WIP	1310 610
Canton F-22-d	10	WHBC	1200		500	WLIT WNAT	560
Cincinnati G-20-e	500 50000	WKRC WLW	550 700		100 100	WPEN	1310 1500
Cleveland F-22-a	500 1000	WSAI WEAR	1330 1070	Pittsburgh F-23-c	250 50000	WRAX KDKA	1020 980
Cicretaine 1 22 a	1000	WHK	1390	1.000	500	KQV	1380
	500 50000	WJAY WTAM	620 1070		500 1000	KOV WCAE WJAS	1220 1290
Columbus G-21-b	500 500	WAIU WCAH	640 1430	Reading F-25-d	100 100	WMBJ WRAW	1500 1310
	750	WEAO	570 1210	Scranton F-25-a	250	WGBI	880
Dayton G-21-e	50 200	WMAN WSMK	1210 1380	State College F-24-a	250 500	WQAN WPSC	880 1230
Hamilton G-20-d	100	WRK	1310	Washington F-23	100	WNBO	1200
Mansfield F-21 Springfield G-21-c	100 500	WJW WCSO	1210 1450	Wilkes-Barre F-25-b	100 100	WBAX WBRE	1210 1310
	- 50	000					

PORTO RICO San Juan	500	WKAQ	890	San Antonio M-14-a	100 100 100	KGCI KGDR KGRC	1370 1500 1370
RHODE ISLAND	)				100 1000	KTAP KTSA	1420 1290
Cranston F-27-a	100 100	WDWF WLSI	1210 1210	Waco L-15-b Wichita Falls K-14	5000 1000 250	WOAI WJAD KGKO	1190 1240 570
Newport F-27 Pawtucket E-27	100 100	WMBA WPAW	1500 1210	UTAH	200	nono	0,0
Providence E-27-h	250 250	WEAN WJAR	780 890	Ogden F-7-b	100	KLO	1370
SOUTH CAROL	INI A			Salt Lake City F-7-c	1000 5000	KDYL KSL	1290 1130
Charleston K-23	75	WBBY	1200	VERMONT			
_				Burlington D-26-a Springfield D-26-b	100 10	WCAX WNBX	1200 1200
SOUTH DAKOT		WEDN	550	VIRGINIA			
Brookings D-14 Dell Rapids D-14	1000 <b>5</b> 0	KFDY KGDA	550 1370	Arlington G-24-d	1000	NAA	690
Oldham D-14	15 200	KGDY KGFX	1200 580	Emory	100	WJDW WLBG	1370
Pierre D-12 Rapid City D-11	100	WCAT	1200	Ettrick Mt. Vernon Hills	100 1000	WJSV WGH	1200 1460
Sioux Falls D-14 Vermillion E-14-b	2000 500	KSOO KUSD	1150 890	Newport News Norfolk I-24	100 500	WGH WPOR	1310 780
Watertown	100 1000	KGCR WNAX	1210 570	l .	500	WTAR	780
Yankton E-14-a	1000	WINAA	3/0	Richmond H-24	100 100	WBBL WMBG	1370 1210
TENNESSEE				Roanoke H-23	5000 250	WRVA WDBJ	1110 930
Bristol Chattanooga J-20	100 1000	WOPI WDOD	1500 1280	WASHINGTON			
Knoxville I-20	50	WFBC	1200	WASHINGTON Aberdeen B-1	75	KXRO	1310
	50 1000	WNBJ WNOX	1310 560	Bellingham A-1	100	KVOS	1200
Lawrenceburg J-19 Memphis J-18-a	500 500	WOAN WGBC	600 1430	Everett A-2 Lacey B-2-b	50 10	KFBL KGY	1370 1200
Wiemphis J-10-a	100	WHBQ	1370	Longview B-1	100 500	KGY KUJ KWSC	1500 1390
	500 500	WMC WNBR	780 1430	Pullman B-4 Seattle B-2-a	100	KFOW	1420
Nashville I-19	500 5000	WREC WLAC	600 1490		5000 1000	KJR KOL	970 1270
Nashville 1-19	5000	WSM	650	İ	1000	KOMO KPCB	920
Springfield I-19	5000 100	WTNT WSIX	1490 1210		100 100	KPQ KRSC	1210 1210
Union City I-18	15	WOBT	1310		50 1000	KRSC KTW	1120 1270
					100 500	KVL	1370
TEXAS	• • • •	******		Spokane A-4	100	KXA KFIO	570 1230
Abilene Amarillo J-12	100 1000	KFYO KGRS	1420 1410		500 5000	KFPY KGA	1390 1470
Austin L-14-b	250 500	WDAG KUT	1410 1120	,	1000	KHQ	590
Beaumont M-16	500	KFDM	560	Tacoma B-1-a	500 1000	KMÓ KVI	1340 760
Brownsville O-14-b Brownwood L-13	500 100	KWWG KGKB	1260 1500	Yakima	100	KIT	1370
College Sta. M-13 Corpus Christi	500 100	WTAW	1120 1500	WEST VIRGINIA			
Dallas L-15-a	10000	KGFI KRLD	1040	Bluefield	100	WHIS	1420
	500 500	WFAA WRR	800 1280	Charleston H-22 Fairmount G-23	250 250	WOBU WMMN	580 890
Dublin K-14	100	KFPL	1310	Huntington G-22	250	WSAZ	580
El Paso L-10	100 100	KTSM WDAH	1310 1310	Weirton G-22 Wheeling G-22	5000	W Q B Z W W V A	1420 1160
Fort Worth L-14-a	100 1000	KFJZ KTAT	1370 1240	WISCONSIN			
Galveston M-15-b	50000 100	WBAP KFLX	800 1370	Beloit E-18-b	350	WEBW	600
	500	KFUL KFPM	1290	Eau Claire D-17	1000	WTAQ	1330
Greenville K-15 Harlingen O-14	15 500	KRGV	1310 1260	Fond du Lac D-18-d Kenosha E-19	100 100	KFIZ WCLO	1420 1200
Houston M-15-a	1000 5	KPRC KTUE	920 1420	La Crosse E-17 Madison E-18-2	1000 750	WKBH WHA	1380 940
Richmond M-15	50	KGHX	1500		100	WIBA	1210
San Angelo M-12	100	KGKL	1370	Manitowoc D-19	100	WOMT	1210

Milwaukee E-19-a	250	WHAD	1120	Toronto	4000	CFRB	960
	250	WISN	1120		500 1000	CJBC	580 840
Povnette D-18-e	1000 100	WTMJ WIBU	620 1310		5000	CJBC CJBC CJSC	960
Racine E-19	100	WRJN WHBL	1370		500	CJSC	690
Sheboygan C-18	500	WHBL	1410 900		500 5000	CKCL CKGW	580 690
Stevens Pt. D-18-b West De Pere D-19	2000 100	WLBL WHBY	1200		500	CKNC	580
	100				500 500	CKOW	840 840
WYOMING Casper	100	KDFN	1210		<b>50</b> 00	CNXR	690
<del>-</del>				PRINCE EDW	ARD		
	IADA	Ŀ		ISLAND Charlottetown	250	CFCY	960
ALBERTA		0010	690	Summerside	30 25	CFCY CHCK CHGS	960 1120
Calgary	500 500	CFAC CFCN	690 690	l		0.700	
	500	CHCA	690	QUEBEC			
	500	CJCJ CNRC	690 690	Montreal	1650 500	CFCF CHYC	1030 730
Edmonton	500 250	CHMA	580		12000	CKAC	730
Danionton	500	CJCA	580	١	1650	CNRM	730
	500 500	CKUA CNRE	580 580	Quebec	25 22	CHRC CKCI	880 880
Lethbridge	50	CJOC	1120	ĺ	50	CKCV	880
Red Deer	1000	CHCT	840		50	CNRO	880
	1000	CKLC	840	St. Hyacinthe	50 V A N I	CKSH	1010
BRITISH COLU				SASKATCHEV	500	CIDW	600
Chilliwack	.5	CHWK	1210	Fleming Moose Jaw	500	CJRW CJRM	600
Kamloops Sea Island	15 50	CFJC CJOR	1120 1030	Pilot Butte	500	CHWC	960
Vancouver	50	CJOR CHLS	730 l	Regina	500 500	CKCK	960 960
	50 50	CKEC	730 730		500	CKCK CNRR	960
	50	CKFC CKMO	730	Saskatoon	500 250	CFQC CJHS	910 910
	100	CKWX	730 1030		500	CNRS	910
Victoria	500 500	CNRV CFCT	630	Yorkton	500	CJGX	630
MANITOBA				HAITI			0.70
	500	CKX	540	Port au Prince	1000	HHK	830
Brandon Winnipeg	5000	CKY	780	MEXICO			
***\$	5000	CNRW	780	Chihuahua	250	XFF	920
NEW BRUNSW	ICK		1	C. Lerdo, Dgo Guadalajara, Jal.	250 101	XES XEA	1200 1200
Fredericton	50	CFNB	1210	Jalapa, Ver.	350	XFC	630
Moneton	500	CNRA	630	Merida, Yucatan Mexico City	105 1000	XEY XEB	550 670
St. John	50	CFBO	890	Mexico City	1000	XEN	730
NOVA SCOTIA					500	XEX	920
Halifax	500	CHNS	930		2000	XFA XFG	540 640
Sydney	50	CJCB	880		1000	XFI	590
Wolfville	50	CKIC	930	Monterrey, N. L.	500 101	XFX XEH	840 970
ONTARIO				Morelia, Mich.	101	XEI	1000
Brantford	50	CKCR	1010	Oaxaca, Oax.	105	XEF	1130
Chatham	50	CFCO	1210	Puebla, Pue.	101	XEE	960
Cobalt Hamilton	15 10	CKMC CHCS	1210 880	CUBA			
namiiton	50	CHML	880	Cienfuegos	200	6BY	1150
	50	CKOC	880	Elia	500 500	7SR CMC	860 840
Iroquois Falls Kingston	250 500	CFCH CFRC	600 1120	Havana	4000	CMK	730
London	500	CJGC CNRL	910		15	2BB	1200
Midland	500 50	CNRL CKPR	910 1120		50 20	2LR 2MG	1280 1050
Midland Ottawa	100	CKCO	690		100	2OK	860
	500	CNRO	600	1	100 20	2OL 2RK	1170 950
Prescott Preston	50 50	CFLC CKPC	1010 1210		20	2TW	1110
Toronto	500	CFCA	840	Terimony	10 1500	2UF 6KW	1090 790
	500	CFCL	580	Tuinucu	1900	OI . W	790
The state of the s							

CFAC 690	CJOR 1030	CNRT 840
Calgary, Alta.	Sea Island, B.C.	Toronto, Ont.
St. John, N. B.	Moose Jaw, Sask.	Vancouver, B.C.
CFCA 840	CJRW 600	CNRW 780
Toronto, Ont. CFCF 1030	Fleming, Sask.	Winnipeg, Man. CNXR 690
Montreal, Que.	Toronto, Ont.	CNXR 690 Toronto, Ont.
CFCH 600	CKAC 730	HHK   830
Iroq's Falls, Ont.	Montreal, Que.	Port au Prince, H.
CFCL 580 Toronto, Ont.	CKCD 730 Vancouver, B.C.	KCRC 1370 Oklahoma City
CFCN 690	CKCI 880	KDB 1500
Calgary, Alta. CFCO 1210	Quebec, Que.	S. Barbara, Cal.
Chatham, Ont.	CKCK 960 Regina, Sask.	KDFN 1210 Casper, Wyc.
CFCT 630	CKCL 580	KDKA 980
Victoria, B. C.	Toronto, Ont.	Pittsburgh, Pa.
CFCY 960 Ch'lottet'n, P.E.I.	Ottawa, Ont.	KDLR 1210 Devils Lake.N.D.
CFJC 1120	CKCR 1010	KDYL 1290
Kamloops, B.C.	Brantford, Ont.	Salt Lake City
CFLC 1010	CKCV 880	KEJK 710
Prescott, Ont. CFNB 1210	Quebec, Que.	Los Angeles, Cal. KELW 780
Fredericton, N.B.	Vancouver, B.C.	Burbank, Cal.
CFQC 910	CKGW 690	KEX 1180
Saskatoon, Sask	Toronto, Ont.	Portland, Ore. KFAB 770
Toronto, Ont.	Wolfville, N.S.	Lincoln, Nebr.
CFRC 1120	CKLC 840	KFAD 620
Kingston, Ont.	Red Deer, Alta.	Phoenix, Ariz.
CHCA 690 Calgary, Alta.	CKMC 1210 Cobalt, Ont.	KFBB 1360 Great Fls, Mont.
CHCK 960	CKMO 730	KFBK 1310
Ch'lottet'n, P.E.I.	Vancouver, B.C.	Sacramento, Cal
CHCS 880 Hamilton, Ont.	CKNC 580 Toronto, Ont.	KFBL 1370
CHCT 840	CKOC 880	Everett, Wash. KFDM 560
Red Deer, Alta.	Hamilton, Ont.	Beaumont, Tex.
CHGS 1120 Sum'rside, P.E.I.	CKOW 840 Toronto, Ont.	KFDY 550
CHLS 730	CKPC 1210	Brookings, S.D. KFEL 630
Vancouver, B.C.	Preston, Ont.	Denver, Colo.
CHMA 580	CKPR 1120	KFEQ 560
Edmonton, Alta.	Midland, Ont. CKSH 1010	St. Joseph, Mo. KFGQ 1310
Hamilton, Ont.	St. H'cinthe, Que.	Boone, Iowa
CHNS 930	CKUA 580	KFH 1300
Halifax, N.S. CHRC 880	Edmonton, Alta.	Wichita, Kansas KFHA 1200
Quebec, Que.	Vancouver, B.C.	Gunnison, Colo.
CHWC 960	CKX 540	KFI 640
Pilot Butte, Sask	Brandon, Man. CKY 780	Los Angeles, Cal. KFIF 1420
Chilliwack, B.C.	Winnipeg, Man.	Portland, Ore.
CHYC 730	CMC   840	KFIO 1230
Montreal, Que. CJBC580-840-960	Havana, Cuba CMK 730	Spokane, Wash.
Toronto, Ont.	— CMK 730 Havana, Cuba	KFIZ 1420 Fond du Lac.Wis.
CJBR 960	II CNRA 630	KFJB 1200
Regina, Sask.	Moneton, N.B.	Marshalltown, Ia.
CJCA 580 Edmonton, Alta.	CNRC 690 Calgary, Alta.	KFJF 1470 Oklahoma City
CJCB 880	CNRE 580	KFJI 1370
Sydney, N.S.	Edmonton, Alta.	Astoria, Ore.
CICI 690	CNRL 910	KFJM 1370
Calgary, Alta.	London, Ont. CNRM 730	Grd. Forks, N.D
London, Ont.	Montreal, Que.	Portland, Ore.
CJGX 630	CNRO 600	KFJY 1310
Yorkton, Sask.	Ottawa, Ont.	Fort Dodge, Ia.
Saskatoon, Sask.	Quebec, Que.	KFJZ 1370 Ft. Worth, Tex.
CJOC 1120	CNRR 960	KFKA 880
Lethbridge, Alta.	Regina, Sask.	Greeley, Colo.
	CNRS 910 Saskatoon, Sask.	KFKB 1050 Milford, Kansas
	Justice of the state of the sta	Willioid, Ixalisas
	- 11	

KFKU 1220	KFYR 550	KGIQ 1320	1 1
Lawrence, Kans.	Bismarck, N.D.	Twin Falls, Ida.	
KFKX 1020	KGA 1470	KGIR 1360	
Chicago, Ill.	Spokane, Wash.	Butte, Mont. KGIW 1420	
KFKZ 1200	KGAR 1370	Trinidad, Colo	
Kirksville, Mo.	Tucson, Ariz. KGB 1330	KGIX 1420	
KFLV 1410 Rockford, Ill.	San Diego, Cal.	Las Vegas, Nev	
KFLX 1370	II KGBU 900	KGJF 890	
Galveston, Tex.	Ketchikan, Al'ka	Little Rock, Ark	
KFMX 1250	KGBX   1370	KGKB 1500	
N'thfield, Minn.	St. Joseph, Mo.	Brownwood, Tex KGKL 1370	
KFNF 890 Shenandoah, Ia.	York, Nebr.	San Angelo, Tex.	
KFOR 1210	KGCA 1270	KGKO 570	
Lincoln, Nebr.	Decorah, Iowa	Wichita Flls, Tex.	
KFOX 1250	KGCI 1370	KGKX 1420	
Long Beach, Cal.	San Ant'nio, Tex.	Sand Point, Ida	
KFPL 1310	KGCR 1210	Oakland, Cal.	
Dublin, Texas KFPM 1310	Watertown, S.D. KGCU 1200	KGRC 1370	
Greenville Tex.	Mandan, N.D.	San Antonio, Tex.	
Greenville, Tex. KFPW 1340	KGCX 1310	KGRS 1410	
Carterville, Mo.	Wolf P't, Mont.	Amarillo, Texas	
KFPY 1340	KGDA 1370 Dell Rapids, S.D.	KGU 940 Honolulu, Hawaii	
Spokane, Wash KFQA 1090	KGDE 1200	KGW 620	
KFQA 1090 St. Louis, Mo.	Ferg's F'lls, Minn	Portland, Ore.	
KFQD 1230	KGDM 1100	KGY 1200 Lacey, Wash.	
Anchorage Alas	Stockton, Cal.	Lacey, Wash.	
KFQU 1420 Holy City, Cal. KFQW 1420 Seattle, Wash.	KGDR 1500	KHJ 900 Los Angeles, Cal.	
Holy City, Cal.	San Antonio, Tex. KGDY 1200	KHO 590	
Soottle Wash	Oldham, S.D.	KHQ 590 Spokane, Wash.	
KFQZ 860	KGEF 1300	KICK 1420	
KFQZ 860 Hollywood, Cal.	Los Angeles, Cal.	Red Oak, Iowa	
KFRC 610	KGEK 1200 Yuma, Colo.	KIB 1320 Idaho Falls, Ida.	
San F'ncisco, Cal KFRU 630	KGER 1360	KIDO 1250	
Columbia, Mo.	Long Beach, Cal.	Boise, Idaho	
KFSD 600	KGEW 1200	KIT 1370	
San Diego, Cal. KFSG 1120	Ft. Morgan, Colo.	Yakima, Wash. KJBS 1070	
KFSG 1120	KGEZ 1310 Kalispell, Mont.	San Fincisco, Cal.	
Los Angeles, Cal KFUL 1290	KGFF 1420	San F'ncisco, Cal San F'ncisco, Cal	
Galveston, Tex.	Alva, Okla.	Seattle, Wash.	
Galveston, Tex. KFUM 1270	KGFG 1370	KLCN 1290	
Col. Spgs., Colo.	Oklahoma City	Blytheville, Ark.	
KFUO 550 St. Louis, Mo.	KGFI 1500 C'pus Ch'sti,Tex.	KLO 1370 Ogden, Utah	
KFUP 1310	KGFJ 1200		
Denver, Colo.	Los Angeles, Cal.	Minot, N. Dak.	
	KGFK 1200 Hallock, Minn.	Little Rock, Ark.	
Culver City, Cal.	Hallock, Minn.	KLS 1440	
KFVS 1210 Cape Gir'rd'u, Mo	Raton N M	Oakland, Cal.	
KFWB 950	KGFL 1370 Raton, N. M. KGFW 1310		
Hollywood, Cal.	Ravenna, Nebr.	Oakland, Cal.	
KFWF 1200 St. Louis, Mo.	KGFX 580		
St. Louis, Mo.	Pierre, S.D. KGGC 1420	Dupont, Colo.   -	
KFWI 930 San F'ncisco,Cal.	SanF'neisco, Cal.	Shenandoah, Ia.	
KFWM 930	KGGF 1010	KMBC 950	
Oakland, Cal.	SanF'ncisco, Cal.  KGGF 1010 Picher, Okla.	Indep'd'nce, Mo.	
KFXD 1420	KGGM 1230	KMED 1310 Medford, Ore	
Jerome, Idaho KFXF 630	Alb'q'rque, N.M. KGHF 1320	KMIC 1120	
Denver, Colo.	Pueblo, Colo.	Inglewood, Cal	
KFXJ 1310	KGHG 1310	KMJ 1210	
Edgewater, Colo.	McGehee, Ark.	Fresno, Cal.	
KFXM 1200	KGHI 1200	KMMJ 740 Clay Ctr., Nebr.	
San Ber'd'no, Cal. ————————————————————————————————————	Little Rock, Ark. KGHL 950	KMO 1340	
Oklahoma City	Billings, Mont.	Tacoma, Wash.	
EEEE 1490	KGHX 1500	KMOX 1090	
Flagstaff, Ariz.	Richmond, Tex.	St. Louis, Mo.	
KFÝO 1420 Abilene, Texas			

KMTR 570	II KSO 1380	II KXA 570	
Hollywood, Cal.	Clarinda, Iowa	Seattle, Wash.	
KNX 1050	KSOO 1110	KXL 1250	
Los Angeles, Cal.	Sioux Falls, S.D.	Portland, Ore.	
KOA 830	KSTP 1460	KXO 1200	
Denver, Colo. KOAC 550	St. Paul, Minn. KTAB 560	El Centro, Cal. KXRO 1310	
Corvallis, Ore.	Oakland, Cal.	Aberdeen, Wash.	
KOB 1180	KTAP 1420		
State Coll., N.M.	San Antonio, Tex.	San F'ncisco, Cal.	
KOCW 1400	KTAT 1240 Ft. Worth, Tex.	KYW 1020	
Chickasha, Okla. KOH 1370	KTBI 1300	Chicago, Ill. KZM 1370	
Reno, Nevada	Los Angeles, Cal.	Hayward, Cal.	
KOIL 1260	KTBR 1300	NAA 690	
Council Bluffs, Ia.	Portland, Ore.	Arlington, Va.	
KOIN 940 Portland, Ore.	KTBS 1450 Shreveport, La.	WAAF 920 Chicago, Ill.	
KOL 1270	KTHS 970	WAAM 1250	
Seattle, Wash.	Hot Spgs., Ark.	Newark, N. J.	
KOMO 920	KTM 780	II W A A T 1070	
Seattle, Wash. KOOS 1370	Los Angeles, Cal. KTNT 1170	Jersey City, N.J. WAAW 660	
Marshfield, Ore.	Muscatine, Iowa	Omaha, Nebr.	
KORE 1420	KTSA 1290	WABC 860	
Eugene, Ore.	San Antonio, Tex.	New York City	
KOY 1390	KTSL 1310	WABI 1200 Bangor, Maine	
Phoenix, Ariz. KPCB 1210	Shreveport, La. KTSM 1310	WABO 1440	
Seattle, Wash.	El Paso, Texas	Rochester, N.Y.	
KPJM 1500	KTUE 1420	WABZ   1200	
Prescott, Ariz.	Houston, Texas	New Orleans, La.	
KPLA 1430 Los Angeles, Cal.	KTW 1270 Seattle, Wash.	WADC 1320 Akron, Ohio	
KPO 680	KUJ 1500	WAGM 1310	
San F'ncisco, Cal.	Longview, Wash.	Royal Oak, Mich	
KPOF 880	KUOA 1390	WAIU 640	
Denver, Colo. KPPC 1200	Fayetteville, Ark.	Columbus, Ohio	
Pasadena, Cal.	Missoula, Mont.	Birmingham, Ala.	
KPQ 1210	KUSD 890	WASH 1270	
Seattle, Wash.	Vermillion, S. D.	_ Gr. Rapids, Mich	
KPRC 920	KUT 1120	WBAK 1430	
Houston, Texas KPSN 1360	Austin, Texas KVEP 1500	Harrisburg, Pa WBAL 1060	
Pasadena, Cal.	Portland, Ore.	Baltimore, Md	
KQV 1380	KVI 760	WBAP 800	
Pittsburgh, Pa. KQW 1010	Tacoma, Wash.	Fort Worth, Tex WBAX 1210	
KQW 1010 San Jose, Cal.	Seattle, Wash.	Wilkes-Barre, Pa.	
KPWF 1490	KVOA 1260	WBBC 1400	
Westminster, Cal.	_ Tucson, Arizona	Brooklyn, N.Y.	
KRE 1370	KVOO 1140	WBBL 1370	
Berkeley, Cal. KREG 1500	Tulsa, Okla.  KVOS 1200	Richmond, Va. WBBM 770	
Santa Ana, Cal.	Bellingh'm, Wash.	Chicago, Ill.	
KRGV 1260	KWCR 1310	WBBR 1300	
Harlingen, Texas KRLD 1040	Cedar Rapids, Ia.	Rossville, N. Y.	
Dallas, Texas	KWEA 1210 Shreveport, La.	WBBY 1200 Charleston, S.C.	
KRMD 1310	KWG 1200	WBBZ 1200	
Shreveport, La.	Stockton, Cal.	Ponca City, Okla.	
KRSC 1120	KWJJ 1060	WBCM 1410	
Seattle, Wash.	Portland, Ore. KWK 1350	Bay City, Mich. WBIS 1230	
KSAC 580 Manh'tt'n, Kans	St. Louis, Mo.	Boston, Mass.	
Manh'tt'n, Kans. KSCJ 1330	II KWKC 1370	WBMS 1450	
Sioux City, Ia.	Kansas City, Mo.	Fort Lee, N.J.	
KSD 550	KWKH 850 Shreveport, La.	WBNY 1350 New York City	
St. Louis, Mo. KSEI 900	KWLC 1270	WBOQ 860	
Pocatello, Idaho	Decorah, Iowa	New York City	
KSL 1130	KWSC 1390	WBOW 1310	
Salt Lake City	Pullman, Wash.	Terre Haute, Ind.	
KSMR 1200 Santa Maria, Cal.	KWWG 1260 Brownsville, Tex.	WBRC 930 Birmingham, Ala.	
Daniel Maria, Cal.	Distrine, Tex.	Dirmingham, Ala.	
	<b>  </b>		

WDRE		
WBRE 1310	I WDAE 1240	WFBJ 1370
Wilkes-Barre, Pa.	Tampa, Fla.	Coll'geville, Minn.
WBRL 1430	WDAF 610	WFBL 900-1490
Manchester, N.H.	Kansas City, Mo. WDAG 1410	Syracuse, N.Y. WFBM 1230
WBSO 920 Well'l'yH'ls, Mass	WDAG 1410 Amarillo, Texas	Indianapolis, Ind.
WBT 1080	WDAH 1310	WFBR 1270
Charlotte, N.C.	El Paso, Texas	Baltimore, Md.
WBZ 990	WDAY 940	WFDF 1310 Flint, Mich.
Springfield, Mass. WBZA 990	Fargo, N. D. WDBJ 930	WFI 560
Boston, Mass.	Roanoke, Va.	Philadelphia, Pa.
WCAC 600	WDBO 1120	WFIW 940 Hopkinsville, Ky.
Storrs, Conn.	Orlando, Fla. WDEL 1120	WFJC 1450
WCAD 1220 Canton, N.Y.	Wilmington, Del.	Akron, Ohio
WCAE 1220	WDGY 1180	WFKD 1310
Pittsburgh, Pa.	Minneap., Minn. WDOD 1280	Philadelphia, Pa. WFLA 620
WCAH 1430	WDOD 1280 Chattan'ga Tenn	Clearwater, Fla.
Columbus, Ohio WCAJ 590	Chattan'ga, Tenn WDRC 1330	WGAL 1310
Lincoln, Nebr.	N. Haven, Conn	Lancaster, Pa.
WCAL 1250	WDSU 1250	WGBB 1210 Freeport, N.Y.
Northfield, Minn. WCAM 1280	New Orleans, La.	WGBC 1430
Camden, N.J.	WDWF 1210 Cranston, R.I.	Memphis, Tenn.
WCAO 600	WDZ   1070	WGBF 630
Baltimore, Md. WCAP 1280	Tuscola, Ill. WEAF 660	Evansville, Ind. WGBI 880
Ashury Pk N.J.	New York City	Scranton, Pa.
Asbury Pk., N.J. WCAT 1200	WEAI 1270	WGBS 1180
Rapid City, S.D. WCAU 1170	Ithaca, N.Y. WEAN 780	New York City WGCM 1210
Philadelphia, Pa.	Providence, R.I.	Gulfport, Miss.
WCAX 1200	WEAO 570	WGCP 1250
Burlington, Vt.	Columbus, Ohio WEAR 1070	Newark, N.J. WGES 1360
WCAZ 1070 Carthage, Ill.	WEAR 1070 Cleveland, Ohio	Chicago, Ill.
WCBA 1440	WEBC 1290	WGH 1310
Allentown, Pa.	Duluth, Minn.	Newp't News, Va WGHP 1240
WCBD 1080 Zion, Ill.	WEBE 1210 Cambridge, Ohio	Detroit, Mich.
WCBM 1370	H WEBQ 1210	WGL 1370
Baltimore, Md.	Harrisburg, Ill.	Ft. Wayne, Ind. WGMS 1250
WCBS 1210 Springfield, Ill.	WEBR 1310 Buffalo, N.Y.	Minneap., Minn.
WCCO 810	WEBW 600	WGN   720
Minneap., Minn. WCDA 1350	Beloit, Wis. WEDC 1210	Chicago, Ill. WGR 550
New York City	Chicago, Ill.	Buffalo, N.Y.
WCFL 1280	WEDH 1420	WGST   890
Chicago, Ill.	Erie, Pa.	Atlanta, Ga. WGY 790
WCGU 1400 Coney Is., N.Y. WCKY 1480	WEÉI 590 Boston, Mass.	Schnec'd'y, N.Y. WHA 940
WCKY 1480	WEHS 1500	
Covington, Ky.	Evanston, Ill.	Madison, Wis.
WCLB 1500	WELK 1370 Philadelphia, Pa.	WHAD 1120 Milwaukee, Wis.
Brooklyn, N.Y. WCLO 1200	II WEMC 590	WHAM 1150
Kenosha, Wis.	Ber'n Spgs., Mich	Rochester, N.Y.
WCLS 1310	WENR 870 Chicago, Ill.	WHAP 1300 New York City
Joliet, Ill. WCMA 1400	II WEPS 1200	WHAS 820
Culver, Ind.	Gloucester, Mass. WEVD 1300	Louisville, Ky.
WCOA 1340	New York City	Troy, N.Y.
Pensacola, Fla. WCOC 880	WEW 760	WHB 950
Columbus, Miss.	St. Louis, Mo.	Kansas City, Mo.
WCOD 1200	II WEAA SOO	WHBC 1200 Canton, Ohio
Harrisburg, Pa. WCOH 1210	Dallas, Texas WFAN 610	WHBD 1370
Yonkers, N.Y.	H Philadelphia, Pa.	Bellefontaine, O.
WCRW 1210	WFBC   1200	WHBF 1210
Chicago, Ill. WCSH 940	Knoxville, Tenn. WFBG 1310	Rock Island, Ill. WHBL 1410
WCSH 940 Portland, Maine	Altoona, Pa.	Sheboygan, Wis.
WCSO 1450		
Springfield, Ohio		

WHBQ 1370		WJAX 900		WKJC 1200		
Memphis, Tenn.		Jacksonville, Fla.		Lancaster, Pa.		
WHBU 1210		WJAY 620		WKRC 550		
Anderson, Ind. WHBY 1200		Cleveland, Ohio WJAZ 1480		Cincinnati, O.		-
W De Pere Wis		WJAZ 1480 Chicago, Ill.		WKY 900 Oklahoma City		
W. De Pere, Wis. WHDF 1370		WJBC 1200		WLAC 1490		-
Jalumet, Mich.		La Salle, Ill.		Nashville, Tenn.		
WHDH 830 Houcester, Mass.		II W JRI 1210		WLAP 1200		-
loucester, Mass.		Red Bank, N.J.		Louisville, Ky.		.
WHDI 1180		H WJRK 1370		[[ WLB 1250		
Minneap., Minn. WHDL 1420		Ypsilanti, Mich.		Minneap., Minn.		-
CupperLake, N.Y.		Decatur, Ill.		WLBC 1310 Muncie, Ind.		1
WHEC 1440		WJBO 1370		WLBF 1420		-
Rochester, N.Y.		New Orleans, La.		Kansas City, Ks.		
VHFC 1500		WJBT 770		WLBG   1200		
Cicero, Ill.		Chicago, Ill.		Ettrick, Va.		
VHIS 1420		W JBU 1210		WLBL 900		
Bluefield, W.Va WHK 1390		Lewisburg, Pa WJBW 1200		Stevens Pt., Wis. WLBW 1260		-
Cleveland, Ohio		New Orleans, La.		Oil City, Pa.		
VHN 1010		WJBY 1210		WLBX 1500		1-
lew York City		Gadsden, Ala.		L.I.City, N.Y.		1
VHO 1000		WJDW 1370		WLBZ 620		
Des Moines, Ia.		WJDW 1370 Emory, Va. WJDX 1270		Bangor, Me.		_
VHP 1430	1 1	WJDX 1270	1 1	WLCI 1210 Ithaca, N.Y.		1
Iarrisburg, Pa. VIAS 1420		Jackson, Miss.		Ithaca, N.Y.		
Ottumwa, Iowa		WJDZ 1310 WinstSal., N.C.		" LLIA 1000		
VIBA 1210		WJJD 1130		Lexington, Mass. WLEY 1420		-
Madison, Wis.		Mooseheart, Ill.		Lexington, Mass.		1
Madison, Wis. WIBG 930		WJKS 1360		WLIT   560		
Elkins Park, Pa.		Gary, Ind.		Philadelphia, Pa.		
VIBM 1370		WJR 750		WLOE 1500		
ackson, Mich. VIBO 570		Detroit, Mich.		Boston, Mass.		-
VIBO 570 Chicago, Ill.		WJSV 1460	1	WLS 870		1
VIBR 1420		Mt. Vern. H'ls, Va WJW 1210		Chicago, Ill.		-
teubenville, O.		Mansfield, Ohio		Cranston, R.I.		1
VIRS 1450		WJZ 760		WLTH 1400		-
lizabeth, N.J. 📜		New York City		Brooklyn, N.Y.	_ =	-
ATRO 1310		WKAQ 890		II WLW 700		
oynette, Wis.		San Juan, P.R.		Cincinnati, Ohio		
VIBW 580		WKAR 1040		WLWL 1100		1
Copeka, Kansas WIBX 1200		E. Lansing, Mich WKAV 1310		New York City WMAC 570		-
Itica, N.V.		Laconia, N.H.		Cazenovia, N.Y.		Ì
Jtica, N.Y. VICC 1190		WKBB 1310		WMAF 1360		
Bridgeport, Conn		Joliet, Ill.	]	S. D'rtm'th, Mass.		
VIL 1200		WKBC 1310		WMAK 900		
t. Louis, Mo.		Birmingham, Ala.		Buffalo, N.Y.		
VILL 890		WKBF 1400		WMAL 630		
Jrbana, Ill. VILM 1420		Indianapolis, Ind.		Washington, D.C.		-
VILM 1420 Vilmington, Del		WKBH 1380	!	WMAN 1210 Columbus, Ohio		
VINR 1210		La Crosse, Wis. WKBI 1500		WMAQ 670		-
Bay Shore, N.Y.		Chicago, Ill.		Chicago, Ill.		
VIOD 1120		Chicago, Ill WKBN 570		Chicago, Ill. WMAY 1200		
Aliami Bch., Fla		Youngstown, O		St. Louis, Mo.		
VIP 610		WKBO 1450		WMAZ 890		
hiladelphia, Pa.		Jersey City, N.J.		Macon, Ga.		
VISN 1120 Iilwaukee, Wis.		WKBP 1420 Battle Crk., Mich		WMBA 1500		
VJAC 1310		WKBQ 1350		Newport, R.I. WMBC 1420		-
ohnstown, Pa.		New York City		WMBC 1420 Detroit, Mich.		
VIAD 1240		WKBS 1310		WMBD 1440		-
Vaco, Texas		Galesburg, Ill.		Peoria Hghts., Ill.		
VJAG 1060		H WKBV 1500		WMBG   1210		
Jorfolk, Nebr		Brookville, Ind.		Richmond, Va.		
VJAK 1310		WKBW 1470		WMBH 1420		
Marion, Ind.		Buffalo, N.Y.		Joplin, Mo. WMBI 1080		
VJAR 890 Providence, R.I.		WKBZ 1500		WMBI 1080		
VJAS 1290		Ludington, Mich. WKEN 1040		Chicago, Ill. WMBJ 1500		
ittsburgh, Pa.		Grand Isl'd, N.Y.		Pittsburgh, Pa.		
3,				- 10000 at 611, 1 at		
					1 , 1	

MBL 1310	WOL 1310	WRC 950
keland, Fla.	Washington, D.C.	Washington, D.C.
MBO 1370	WOMT 1210	WREC 600
iburn, N.Y.	Manitowoc, Wis. WOOD 1270	Memphis, Tenn. WREN 1220
MBQ 1500	Gr. Rapids, Mich.	Lawrence, Kans.
ooklyn, N.Y. MBR 1370	WOPI 1500	WRHM 1250
ampa, Fla.	Bristol, Tenn.	Minneap., Minn.
MC 780	WOO 1300	
emphis, Tenn.	Kansas City, Mo. WOR 710	Racine, Wis.
MCA 570	WOR 710	WRK 1310
ew York City	Newark, N. J.	Hamilton, Ohio WRNY 1010
MES 1500	WORC 1200	New York City
oston, Mass. MMN 890	Worcester, Mass. WORD 1480	WRR 1280
airmont, W.Va.	Chicago, Ill.	Dallas, Texas
MPC 1500	WOS 630	Dallas, Texas WRUF 830
apeer, Mich.	Jeff's'n City, Mo. WOV 1130	Gainesville, Fla.
MRJ 1420	WOV 1130	WRVA 1110
maica, N.Y.	New York City	Richmond, Va.
MSG 1350	WOW 590	WSAI 1330
ew York City	Omaha, Nebr.	Cincinnati, Ohio
MT 600	WOWO 1160	WSAJ 1310 Grove City, Pa.
aterloo, Iowa	Ft. Wayne, Ind.	WSAN 1440
NAC 1230 oston, Mass.	WPAP 1010 New York City	Allentown, Pa.
NAD 1010	WPAW 1210	WSAR 1450
orman, Okla.	Pawtucket, R.I.	Fall River, Mass.
NAT 1310	WPCC 570	WSAZ 580
niladelphia, Pa.	Chicago, Ill.	Hunt'gton, W.Va.
NAX 570	WPCH 810	II WSB 740
ankton, S.D.	New York City	Atlanta, Ga.
NBF 1500	WPEN 1500	WSBC 1210 Chicago, Ill.
ngh'mt'n, N.Y.	Philadelphia, Pa.	WSBT 1230
NBH 1310	WPG 1100 Atl'ntic City, N.J.	South Bend, Ind.
ew B'df'd, Mass.	WPOE 1420	WSGH 1400
noxville, Tenn.	Patchogue, N.Y.	Brooklyn, N.Y.
NBO 1200	WPOR 780	WSIX 1210
ashington, Pa.	Norfolk, Va.	Springfield, Tenn.
NRR 1430	II WDGC 1990	WSJS 1310
emphis, Tenn.	State College, Pa.	WinstSal., N.C.
NBW 1200	WPTF 680	Nashville, Tenn.
arbondale, Pa.	Raleigh, N.C. WQAM 560	WSMB 1320
NBX 1200	Miami Fla	New Orleans, La.
oringfield, Vt.	Miami, Fla. WQAN 880	WSMK 1380
ranacL'ke,N.Y.	Scranton, Pa.	Dayton, Ohio
NJ 1450	WQAO 1010	WSOA 1480
ewark, N.J.	New York City	Forest Park, Ill.
NOX 560	WQBC 1360	WSPD 1340
noxville, Tenn.	Utica, Miss.	Toledo, Ohio
NRC 1440	WQBZ 1420	WSSH 1420 Boston, Mass.
reensboro, N.C. NYC 570	Weirton, W. Va. WRAF 1200	WSUI 600
ew York City	La Porte, Ind.	Iowa City, Ia.
OAI 1190	WRAK 1370	WSUN 620
n Antonio, Tex.	Erie, Pa.	St. Petersb'g, Fla
OAN 600	WRAW 1310	WSVS 1370
aw'nceb'g, Tenn	Reading, Pa.	Buffalo, N.Y.
OAX 1280	WRAX 1010	WSYR 570
renton, N.J.	Philadelphia, Pa.	Syracuse, N.Y.
OBT 1310	WRBC 1240	WTAD 1440
nion City, Tenn.	WRBI 1310	Quincy, Ill.
OBU 580   1	Tifton, Ga.	Worcester, Mass,
harlest'n, W.Va.	WRBJ 1500	WTAM 1070
avenport, Iowa	Hattiesburg, Miss.	Cleveland, Ohio
OCL 1210	WRBL 1200	WTAQ 1330
mestown, N.Y.	Columbus, Ga.	Eau Claire, Wis. WTAR 780
mestown, N.Y. ODA 1250	WRBQ   1210	
aterson, N.J.	Greenville, Miss.	Norfolk, Va.
OI 560	H WRBT 1370	WTAW 1120 College Sta., Tex.
mes, Iowa	Wilmington, N.C.	WTAX 1210
OKO 1440	WRBU 1210 Gastonia, N.C.	Streator, Ill.
ghkeepsie, N.Y.	Gastolia, 1110.	

WTBO 1420	WWRL 1500	XEX 920
Cumberland, Md.	Woodside, N.Y.	Mexico City
WTFI 1450	WWVA 1160	XEY 550
loccoa, Ga.	Wheeling, W.Va.	Merida, Yucatan
VTIC 1060	XEA 1200	XFA 540
Hartford, Conn.	Guadalajara, Jal.	Mexico City
WTMJ 620	XEB 670	XFC 630
Milwaukee, Wis.	Mexico City XEE 960	Jalapa, Ver.
WTNT 1490	XEE 960	XFF 920
Nashville, Tenn.	Pueblo, Pue.	Chihuahua, Chih.
WTOC 1250	XEF 1130	XFG 640
Savannah, Ga.	Oaxaca, Oax.	Mexico City
VWAE 1370	XEH 970	XFI 590
Hammond, Ind.	Monterey, N.L.	Mexico City
VWJ 920	XEI 1000	XFX 840
Detroit, Mich.	Morelia, Mich.	Mexico City
VWL 850	XEN 730	
lew Orleans, La.	Mexico City	
VWNC 570	XES 1200	
sheville, N. C.	C. Lerdo, Dgo.	

# The Short Wave Stations

	•	A LIC CLICIT VV L	eve clation	. LU	
Call	Station	Owner	City and State	Meters	Watts
1 XAA	WRAH	Stanley N. Read	Providence, R. I.		7.5
1 XAE	WBZ	Westinghouse Elec. & Mfg. Co.	Springfield, Mass.	70.0	****
1 XAF	WEEI	Edison Elec. Illuminating Co	Boston, Mass.		
1 XAG		Edison Elec. Illuminating Co	Boston, Mass.		
1 XY	WBRL	Booth Radio Laboratories	Tilton, N. H.	105-109	250
2 X A	WRMU	Yacht, "MU-1" Grebe Co.	New York		
2 XAC	WGY	General Electric Co.	Schenectady, N. Y.		
2 XAD	WGY	General Electric Co.	Schenectady, N. Y.		
2 XAE	WGY	General Electric Co.	Schenectady, N. Y.		
2 XAF	WGY	General Electric Co.	Schenectady, N. Y.	32.7	
2 XAG	WGY	General Electric Co.	Schenectady, N. Y.		
2 XAH	WGY	General Electric Co.	Schenectady, N. Y.		
2 XAK	WGY	General Electric Co. Aviation Radio Station, Inc.	Schenectady, N. Y.		
2 XAL	WRNY	Aviation Radio Station, Inc	New York	30.91	500
2 XAO	_ بالنا	Atlantic Broadcasting Co.	New York	105.9	100
2 XAO	WOR	L. Bamberger Co.	Newark, N. J.	65.4	50
2 XAW	WGY	General Electric Co.	Schenectady, N. Y.		
2 XBA	WAAM	WAAM, Inc.	Newark, N. J.	65.18	50
2 XBH	W. I. D.C.	Chas. G. Ungar	Coney Island, N. Y.	54.02	150
2 XE	WABC	Atlantic Broadcasting Co.	Richmond Hill, N. Y.	21.1	50
2 XZ		National Broadcasting Co.	Bellmore, L. I.	49.15	50000
3 XK		C. Francis Jenkins Labs	Washington, D. C.	** **	
3 XL		Radio Corp. of America	Bound Brook, N. J.	<b>59.96</b>	30000
3 XN		Bell Telephone Laboratory	Wnippany, N. J.		
4 XE 6 XA	KNX	William Justice Lee	winter Park, Fia.	200.	250
6 XAF	KNRC	Los Angeles Express	Los Angeles, Cal.	107.1	100
6 XAI	KGGM	Clarence B. Juneau	Santa Monica, Cal.	108.2	100
6 XAK	KFWH	Los Angeles Radio Club	Los Angeles, Cal.	66.04	50
6 XAL	KFOZ	F. W. Morse	Cnico, Cal.	108.2	50
6 XAN	KRLO	L. E. Taft	Log Angeles Col	66.04	50
6 XAR	KJBS	Freeman Lang J. Brunton & Sons	Los Angeles, Cal.	105.9	250
6 XAU	KHJ	Times-Mirror Co.	Log Angeles Col	32. 104.1	50 50
6.XAZ	KIIJ	Nelson Radio Co.	San Diogo, Cal.	104.1	50 50
6 XBA	KFSG	Air-Fan Radio Corp.		108.2	250
6 XBE	KFBC	W. K. Azbill	Son Diogo, Col.	108.2	230
6 XBH	KFQV	W. E. Riker	Holy City Cal	31-106	50
6 XBR	KFWB	Warner Bros. Picture Studio	Los Angeles Col	40-105	50
6 XBX	KFVD	McWhinnie Elec. Co.	Venice Cal	105.	50
7 XAB	KFPY	Symons Investment Co.	Spokane Wash	105.9	30
7 XAO	KWJJ	Wilbur Jerman, Inc.	Portland Ore	53-54	100
7 XC	KJR	Northwest Radio Service		00-01	
7 XO		Northwest Radio Service	Seattle, Wash.		
8 XAC	WHAM	Stromberg-Carlson Tel. Mfg. Co.	Rochester N Y		
8 XAL	WLW	Crosley Radio Corp.	Cincinnati, Ohio	52.05	500
8 XOA	WJR	WJR. Inc.	Detroit, Mich.	32.	75
8 XF	WHK	Radio Air Service Corp.	Cleveland, Ohio	66.04	500
8 X J	WEAO	Ohio State University	Columbus, Ohio	54.02	250
8 XK	KDKA	Westinghouse Elec. & Mfg. Co	Pittsburgh, Pa.	62.5	40000
8 XP	KDKA	Westinghouse Elec. & Mfg. Co	Pittsburgh, Pa.	10-150	500
9 XAB	WNAL	R. J. Rockwell	Omaha, Nebr.	105.	50
9 XU	KOIL	Mona Motor Oil Co.	Council Bluffs, Iows	61.06	500

#### Radio Gossip

Cecil Underwood spends his working hours announcing at the San Francisco studios but his hobby is aviation and he is out to become a licensed pilot.

Memory Lane artists are replenishing their wardrobes.

Depicting life in the mid-west 25 years ago, this striking dramalogue inspires many requests from newspapers and magazines for photographs, so every member of the cast must boast the conventional costume of a quarter-century ago.

Yes, the voices of the KGO "Morning Glories" have been heard often before by the NBC System audience. The new harmony due is Imelda Montagne, who has been singing with the Pepper Maids, and Peggy Chapman, contralto soloist with the Pacific Vagabonds and Musical Muskateers.

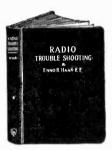
Vaughn de Leath, originator of the "crooning" type of singing now so popular, has returned to New York from her home, "The Hitching Post," in Connecticut. She has moved into an apartment on Fifty-fifth Street, just around the corner from the NBC studios, from which she broadcasts regularly.

No matter how important the broadcast, the doors to the NBC studios from which it goes on the air can never be locked. This is not a superstition, but a fire regulation. In order to keep "crashers" out of the studios—and radio has its crashers—every door is guarded. Signs also advise passers-by that the studio is "on the air" and not open to visitors.

Julian Oliver, famous radio tenor, has returned from a summer tour of his native Spain and Italy with a blushing bride. Oliver met his bride in Rome this summer, and they were married in Paris, September 14. As Carmen De Blasco, Mrs. Oliver won first prize in the Atlantic City beauty contest of 1925, which she entered as Miss Mexico City.

# Would You Like a Real Understanding of Radio

Enno R. Haan, E. E., has written what we believe to be the clearest book on Radio that has yet been published. Written in simple words, as free as possible from technicalities, copiously illustrated, we recommend it to our readers who would like to have an intelligent understanding of the principles of radio.



## Radio Trouble Shooting

has 360 pages, is bound in flexible leather cover and contains more than 300 pictures and diagrams.

Following are a few of the divisions:

Uncontrollable Troubles
Interference
Batteries and Chargers
Aerial Troubles
Eliminators
Tubes, Troubles and Remedies
Internal Troubles
Speakers and Their Troubles
All-Electric Receivers
Television
New Developments

Price Only \$3.00
Postpaid
(No C. O. D. Orders)

#### THE RADEX PRESS

1367 East Sixth Street Cleveland, Ohio

# 10 GIFTS IN 1!



F you've enjoyed RADEX—if it has multiplied the fun and entertainment of your radio hours—wouldn't you like to give your friends a gift of such happiness for 1930? Month after month they'll be reminded of your thoughtfulness. 10 gifts in 1!

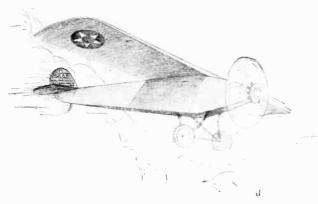
UST write their names and addresses in the blanks below—enclosing \$1.75 for each subscription—and on Christmas morning each will receive a special card of Christmas greetings, informing them that RADEX will come to them each month of 1930—with your best wishes!

Our Special Gift to You. If you send two or more such subscriptions, we will send you a beautiful gold-stamped leatherette cover for your own RADEX.

Should any name you give happen to be a RADEX subscriber, the present subscription will be extended just that much longer.

Fill In - Attach Check or Money Order (\$1.75 for each gift) - and Mail Now
Radex Press, 1367 East 6th Street, Cleveland: Please send Christmas Gift Subscriptions to the following names. Enclosed is \$
NameAddress
NameAddress
NameAddress
NameAddress
My name and address is:

# Boys Get this new BIG MOCAR Aluminum MONOPLANE



CLARENCE CHAMBERLIN, the daring aviator, who flew from New York to Germany, says: "The Big Mocar is a great flyer. I like the aluminum construction, as it is very strong and very light."

## How to Get It!

--¢ı⊪¢--

Simply show RADEX—this copy you've got in your hands - to friends. Each order you get for 1 year's subscription at \$1.75 counts 7 points. Each single copy you sell at 25 cents counts 1 point. All you need to get the BIG MOCAR absolutely FREE is 35 points. Start AT ONCE-when you have enough subscriptions and single copy sales to make 35 points, send us their names and a money order for \$8.75. We'll do the rest.

# Soars and Zooms--Everything!

You've never seen anything like it. A real scale model. Every boy in the neighborhood will envy you. Brings you double joy—first the building of it, the assembling of its parts according to easy to follow instruction sheet, and then the thrill and zest of seeing it perform. Entirely aluminum—with big 2½ foot wing spread, and 18-inch fuse-lage. Big, 11½ inch ball-bearing, slow-running propellor; cambered high lift wing construction; powerful, long-running motor. Adjustable rudder and stabilizer; sturdy landing gear; and disc wheels with balloon tires.

THE RADEX PRESS, 1367 E. 6th Street, Cleveland, Ohio

# A REAL HOLIDAY BARGAIN!

# KOLSTER

# Electro-Dynamic Reproducer

Combined with 210 Power Amplifier and "B" Supply Unit



Height 42" Width 25 ½" Depth 19"

#### Features:

- 1. Electro-Dynamic Reproducer (101/4-in. dia.)
- 2. 210 Power Amplifier. Fine tone quality.
- 3. Supplies "B" voltage, if desired.
- Can be used with any electric or battery set.
- Complete A. C. Electric operation.
- 6. Beautiful pencil-striped walnut cabinet.

List Price \$175.00 (without tubes)

Never \$49.50 Before THESE Dynamic Reproducers are Kolster built, packed in the original Kolster cases and cartons, shipped direct to us from the Kolster factory from whom we have purchased all these Dynamic Reproducers. Every Dynamic Reproducer is brand new, each bears the Kolster guarantee tag and the original serial number.

Such opportunity as herein presented is seldom available. And they won't last long at this low price. We suggest quick action—there's quality here—at a price heretofore unknown.

HIS finely matched rugged unit comprises a complete heavy duty Electro-Dynamic Reproducer, including a 210 Power Amplifier with "B" supply unit all self-contained on a steel frame. It weighs 45 pounds without the cabinet. The cabinet itself is of pencil-striped walnut, beautifully designed with Cathedral grille. It is equipped with switch for control of house current to reproducer, power unit and amplifier. A pilot light indicates when the Reproducer is in operation.

If desired, the 210 Power Amplifier will also supply 22, 67 and 90 volts "B" current, sufficient for any set using up to 8 tubes. An automatic voltage regular tube, UX-874, maintains the "B" voltage silent and steady. This Electro-Dynamic Reproducer can be used with any battery or A.C. set, replacing the last audio stage or be used with all tubes of the set. Wherever used it will bring out every shading and range of tone; every note is reproduced with utmost faithfulness, pure and undistorted. It will modernize any radio receiver.

The following tubes are required for its operation: 2-UX-281 (for full-wave rectification): 1-UX-210 (for super power amplification): 1-UX-874 (for voltage regulation). For use with phonograph pick-up, one additional audio stage is recommended between the pick-up and this Reproducer.

A 20-ft. cable is included with each instrument. Operates direct from 50-60 cycle, 110-120 volt A.C. current. Licenses under patents of RCA and Lektophone Corp.

Terms: 25% cash with order, balance C.O.D. F.O.B. New York

American Sales Co., 19-21 Warren Street, New York City