All Wave Length Changes in New Log

# ROGERAMS CONTROL OF THE PROGRAMS CONTROL OF THE CON

CTOBER, 1927

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Call Book
and Log

Complete this Issue

ANNE CORNWALL

Gold Cup Winner; Football a la Radio; Double Picture Page; That Roxy Hour; WPG Ahoy! Your Favorite Orchestra; Charms of WFLA; AC Super; Trouble Shooting; WICC Aces



#### Three Year Metrodyne Guarantee

#### **BIG PROFITS**

TO AGENTS AND DEALERS Our Agents and Dealers make big money selling Metrodyne Sets. You can work all or part time. Demonstrate the superiority of Metrodynes right in your home. Metrodyne Radios have no competition. Lowest wholesale prices. Demonstrating set on 30 days' free trial. Greatest money-making opportunity. Send coupon, a letter or a postal for our agent's proposition.

Radio News Laboratory and by Amerused. Magnificent, two-tone walnut bodying all the latest refinements.

A single dial control, 7 tube, coast to coast Easiest set to operate. Only one small radio set. **Tested and approved by** knob tunes in all stations. The dial is Popular Science Institute of Stand- electrically lighted so that you can log Popular Radio Laboratory, stations in the dark. The volume control regulates the reception from a faint ica's leading Radio Engineers. De- whisper to thunderous volume, 1,000 to signed and built by radio experts. Only 3,000 miles on loud speaker! The the highest quality low loss parts are Metrodyne Super-Seven is a beautiful and efficient receiver, and we are so sure cabinet with beautiful, gilt metal trim-mings. Very newest 1928 model, em-we make this liberal 30 Days' Free **Trial Offer.** You to be the judge.

# 30 Days' Free Trial-3 Year Guarantee

#### Metrodyne Super-Six

Another triumph in radio. Here's the new 1928 model Metrodyne 6-tube, two-dial, long distance receiving set. Approved by leading radio engineers of America. Highest grade low loss parts, completely assembled in a beautiful walnut cabinet. Easy to operate. Dials easily logged. Tune in your favorite station on same dial readings every time—no guessing.

Mr Howard, of Chicago, said: "While five Chicago broadcasting stations were on the air I tuned in seventeen out-of-town stations, including New York and San Francisco, on my loud speaker horn, very loud and clear, as though they were all in Chicago."

We are one of the pioneers of radio. The success of Metrodyne sets is due to our liberal 30 days' free trial offer, which gives you the opportunity of trying before buying. Thousands of Metrodynes have been bought on our liberal free trial basis.

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Mrs. Wm. Leffingwell, Westfield, N. J., writes: "The Metrodyne Radio I bought of you is a wow! This is as good as any \$225 machine I have ever

N. M. Greene, Maywood, Ill., writes: "My time is up and the Metrodyne works fine. I got havana, Cuba, Oakland, Calif., Denver, Colo., Toronto, Canada, all on the loud speaker."

J. W. Woods, Leadville, Colo., writes: "Received the 7-tube Metrodyne in fine condition. Had it up and working same day received. Was soon listening to Los Angeles, San Diego, Oakland and other California points; also St. Louis, Kansas City and other east and south stations—all coming in fine. Am more than pleased. Sure enjoying it."

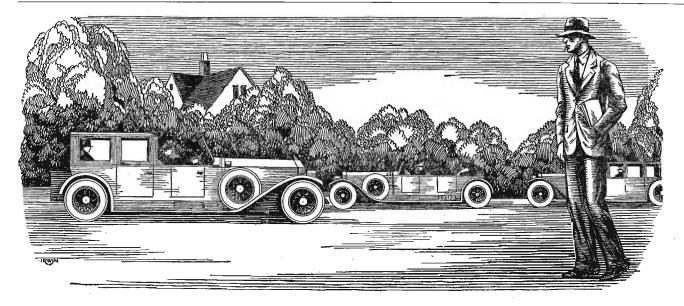
We will send you hundreds of similar letters from owners who acclaim the Metrodyne as the greatest radio set in the world. A postal, letter or the coupon brings complete information, testimonials, wholesale prices, and our liberal 30 days' free trial offer.

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Gentlemen:	Send me full particulars about Metrodyne 6 tube and 7 tube
sets and your	30 days' free trial offer.

sets and your <b>30 days</b> life trial offer.
Name
Address

If you are interested in AGENT'S proposition, place an "X" in the square



Many times in the old days, while I trudged home after work to save carfare, I used to gaze enviously at the shining cars gliding by me, the prosperous men and women within. Little did I think that inside of a year, I, too, should have my own car, a decent bank account, the good things of life that make it worth living.

## I Thought Success Was For Others

Believe It or Not, Just Twelve Months Ago I Was Next Thing to "Down-and-Out"

TODAY I'm sole owner of the fastest growing Radio store in town. And I'm on good terms with my banker, too—not like the old days only a year ago, when often I didn't have one dollar to knock against another in my pocket. My wife and I live in the snuggest little home you ever saw, right in one of the best neighborhoods. And to think that a year ago I used to dodge the landlady when she came to collect the rent for the little bedroom I called "home"!

It all seems like a dream now, as I look back over the past twelve short months, and think how discouraged I was then, at the "end of a blind alley." I thought I never had had a good chance in my life, and I thought I never would have one. But it was waking up that I needed, and here's the story of how I got it.

I WAS a clerk, working at the usual miserable salary such jobs pay. Somehow I'd never found any way to get into a line where I could make good money.

Other fellows seemed to find opportunities. But—much as I wanted the good things that go with success and a decent income—all the really well-paid vacancies I ever heard of seemed to be out of my line—to call for some kind of knowledge I didn't have.

And I wanted to get married. A fine situation, wasn't it? Mary would have agreed to try it—but it wouldn't have been fair to her.

Mary had told me, "You can't get ahead where you are. Why don't you get into another line of work, somewhere that you can advance?"

"That's fine, Mary," I replied, "but what line? I've always got my eyes open for a better job, but I never seem to hear of a really good job that I can handle." Mary didn't seem to be satisfied with the answer, but I didn't know what else to tell her.

It was on the way home that night that I stopped off in the neighborhood drug store, where I overheard a scrap of conversation about myself. A few burning words that were the cause of the turning point in my life!

With a hot flush of shame I turned and left the store, and walked rapidly home. So that was what my neighbors—the people who knew me best—really thought of me! "Bargain counter sheik—look how that suit fits," one fellow had said in a low voice. "Bet he hasn't got a dollar in those pockets." "Oh, it's just 'Useless' Anderson," said another. "He's got a wish-bone where his back-bone ought to be."

As I thought over the words in deep humiliation, a sudden thought made me catch my breath. Why had Mary been so dissatisfied with my answer that "I hadn't had a chance?" Did Mary secretly think that too? And after all, wasn't it true that I had a "wish-bone" where my back-bone ought to be? Wasn't that why I never had a "chance" to get ahead? It was true, only too true—and it had taken this cruel blow to my self-esteem to make me see it.

With a new determination I thumbed the pages of a magazine on the table, searching for an advertisement that I'd seen many times but passed up without thinking, an advertisement telling of big opportunities for trained men to succeed in the great new Radio field. With the advertisement was a coupon offering a big free book full of information. I sent the coupon in, and in a few days received a handsome 64-page book, printed in two colors, telling all about the opportunities in the Radio field and how a man can prepare quickly and easily at home to take advantage of these opportunities. I read the book carefully, and when I finished it I made my decision.

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

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

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

NOW I'm making real money. I drive a good-looking car of my own. Mary and I don't own the house in full yet, but I've made a substantial down payment, and I'm not straining myself any to meet the installments.

Here's a real tip. 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 instead of drifting.

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

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. M-96, Washington, D. C.

-	*
ŀ	J. E. SMITH, President,
1	National Radio Institute. Dept. M-96, Washington, D. C.
1	Dear Mr. Smith:
I	Please send me your 64-page free book, printed in
l	two colors, giving all information about the opportun- ities in Radio and how I can learn quickly and easily
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The millions who have listened to former Farrand Speakers will be astounded to learn that there is now an even better radio speaker—the

Farrand Oval—which sets an entirely new standard of quality and value.

Again radio reception reaches new heights—and again Farrand is responsible. For here is both tonal purity and volume acceptance

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FOUR MODELS—The Oval SENIOR (Model 24), at \$32.50—The Oval JUNIOR (Model 20), at \$16.50—The Oval WALL (Model 30), at \$45—The Oval PEDESTAL (Model 30-P), at \$60.00. Slightly higher in Far West and Canada.

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## Major White-Dean of Sports Announcers







WHEN the last story has been told o, all the great fights that have been broadcast from the arena the name of J. Andrew White will stand as the dean and peer of them all. He was the first ever to carry a microphone to a ring-side when he broadcast the Dempsey-Carpentier fight six years ago. He has been trailing around with the microphone at all the big fights ever since. As vice president and general manager of the Columbia Broadcasting System he is now engaged in presenting grand opera stars and famous artistic productions to Radio audiences.

Major White, in fact, has long been celebrated as a dilettante and in every sport finds a species of art, which he quickly winnows and flashes with nimble wit to the waiting listener. Four years he has served as master of ceremonies at the Radio Industries banquet in the Hotel Astor, New York—the premier social event of the year in Radio. His polish and poise make him a favorite after dinner speaker. The first of a series of articles dealing with the science of broadensting fights and other sports by Major White begins on page fifteen.

#### WJR MYSTERY BOX **PROVIDES GIRL \$500**

I. MILDRED ASH IDENTIFIES WHOZIT CABINET

Many Prize Winners Happy Over Awards—Famous Radio Game Soon to End

PRIZE WINNERS

Station CKY, Winnipeg, Canada First Prize, \$500.00-Mrs. T. W. O'Brien, 354 Woodlawn Ave., Deer Lodge, Winnipeg, Man., Canada.

Second Prize, \$300.00 Federal Orthosonic Receiver—R. E. Parker, Lovelady, Texas.

Third Prize, \$200.00 Howard Receiver—George E. Bender, 1824 Park Ave., Harrisburg, Pa.

Station WJR, Detroit, Michigan First Prize, \$500.00-I, Mildred Ash, 711 W, 8th St., Sioux Falls, South Dakota.

Second Prize, Zenith Radio Set—Mrs. E. Taylor Camphell, St. Francois, Missouri,
Third Prize, Zenith Radio Set—Harry J. Achenhach, Bloomsburg, Pa.

Station KOA, Denver, Colorado First Prize, \$500.00—John Thomas Levi, 11 S. Sherman St., Denver, Colorado.

Second Prize, Zenith Radio Set—Robert H. Curtis, 2305 Euclid Ave., Boulder, Colorado.

Third Prize, Zenith Radio Set—Mrs. I. D. Severns, 1101 W. 41st St., Oklahoma City, Oklahoma

Curtis, 2305 Euclid Ave., Boulder, Colorado.
Third Prize, Zenith Radio Set—Mrs. I. D. Severns, 1101 W. 41st St., Oklahoma City, Oklahoma.

Dr. Whozit's Mysterious Cabinet is no longer a mystery. The identity of its builder has been solved. No sooner was the September issue of Radio Digest on the way to its readers with a picture of the nameless Whozit entry for WJR. Detroit, than a telegram came flashing into the office from Miss I. Mildred Ash, 711 W. Eighth St., Sloux Falls, S. D. It read as follows:

"My Radio Digest just received and was happily surprised to see the picture of my W. J. R. Whozit offering. Am sorry my Whozit cabinet seems to be an orphan, and will write you full tomorrow and clear up the ownership of the WJR Mystery Entry."

Later came a letter from Miss Ash, in which she expressed her happiness and surprise. She said:

"Imagine my surprise yesterday afternoon to take down the receiver of the telephone on my desk and hear my sister's voice say, 'You've won that Whozit prize. Your cabinet is shown in Radio Digest.'

Pocketbook Suffered

"I went to your city in July for my vacation and had planned to call at your office and see the Whozit entries, and regret very much now that I did not do so. But unfortunately someone performed a serious operation on my pocketbook en route and I arrived in Chicago minus all but five dollars of the sum I started out with. That rather dampened my enthusiasm and shortened my stay.

"One is seldom satisfied with the results of their efforts, yet you are right in saying that the Whozit cabinet which I sent in represented, not only a great deal of work, but considerable outlay. The cabinet was modeled somewhat in imitation of the Federal Radio cabinet—possibly because I have a perfectly good Stewart Warner set of my own! I was unable at that time to get the services of a cabinet maker, so it was built by a carpenter. The material used was heavy, and the curve top, you will find, is made of beaver board.

And thus, detail by detail, Miss Ash proved conclusively that

#### Burn Ice, Hear Atoms at Chicago Radio Show

"THEATER of Wireless Wonders" A "THEATER of Wireless Wonders" will be one of the most amazing attractions at the Chicago Radio Show, somewhat expanded and amplified from the one shown in the East at the Radio World's Fair.

Radio World's Fair.

The exhibits, which will be grouped on the balcony of the main exposition hall, will include devices by which the infinitesimal atoms can be measured, seen and even heard. Amplifiers which build up sound to millions of times its original volume will make flowers "talk" and other devices will touch them with a wireless ray which will instantly freeze them into brittleness.

brittleness.

Cold heat will be transmitted through the air and a cake of ice burned up before the eyes of the spectators. Another machine using 350,000 volts of electricity will send a ray at the speed of 150,000 miles

#### LADY OF THE FURS ADORNS OUR COVER

THESE equinoxial storms, you know, might blow up a big blizzard almost any time and it's best to be prepared. Besides, there'll be lots of cold days to sit in the grandstand and watch the football games. These may be some of the reasons why sweet Anne Cornwall is all furred up on the Radio Digest cover this issue. She must take good care of her throat because she sings for the Radio listeners over WMAQ, WEBH and WQJ from the Tivoli, the Uptown, the Chicago and other well known theaters.

Scientists will show how they one-ten-millionth of an inch.

an hour. Scientists will show how they measure one-ten-millionth of an inch.

The Coliseum, the north hall and the annex will be used by the Radio show this year. The booths will be of a pergola type in two tones of lavender and with the tops covered with green smilax and lavender wistaria. More than a ton of smilax has been purchased for this use.

J. Elliott Jenkins, famous Radio engineer, is installing a model broadcasting station in the ballroom of the annex from where nearly a score of Chicago stations will give special programs.

The Chicago show will be held during the week of October 12 to 16, inclusive. By opening both ends of the Coliseum Annex facilities have been provided for taking care of a record-breaking crowd.

#### Karlograph Photos in 20 Seconds

BERLIN. — Karlograph wireless transmission of photographs will probably be an established service this summer between Berlin and Vienna. Already 100 pictures have been sent by this system to Rio de Janeiro, Rome and other cities with noteworthy clearness.

#### Crown School Teacher "Radio Queen" at Fair

Amelia Smith, Maryland, Tells Radio Benefits

AMELIA SMITH. Radio Queen of America, at the Radio World's Fair, New York City, is a high school teacher at Hamilton, Md. She succeeds Mrs. Lotta Harrauff of Princeton, Ill., who was awarded the crown last year.

Miss Smith's winning essay was entirely in her own handwriting and consisted of about 3,500 words. It was profusely illustrated with pictures of women who have figured prominently in Radio news.

trated with pictures of women who have figured prominently in Radio news.

"Radios are blessings to women teachers," she reports. "At home they can hear many lectures which they can use to brighten the lesson in the class room. Current events are heard; synopses of operas given; foreign language lessons are conducted, all of these illuminate the teachers' prosaic speeches at school. Again, if there are Radios in school, geography and history lessons become enriched by spot news, the quick reports of the world's happenings. Music lessons are better interpreted; athletics become more interesting; domestic science lessons are no lenger a tiresome household routine but a joy to the student; the foreign language hour is enlivened. Oh, if all the schools could be equipped with Radios! How quickly papers could be marked, how interesting everything connected with school work would become!"

Miss Smith did not use a superflous word in extolling Radio, simply citing example after example of benefits accruing to women interested in broadcasting.

Thousands of essay compositions were written by girls and women of all ages, who showed keen interest in Radio and the great fair held annually in Madison Square Gardens, New York.

#### CONTENTS

Radio Digest, Illustrated, Volume XXII, Number 3, published Chicago, Illinois, October 1, 1927. Published monthly on the first of each month by Radio Digest Publishing Co. (Incorporated), 510 N. Dearborn Street, Chicago, Illinois, Subscription rates yearly, Three Dollars; Foreign Postage, One Dollar additional; single copies, Twenty-Five Cents. Entered as second-class matter Sept. 6, 1927, at the post office at Chicago, Illinois, under the Act of March 3, 1879. Title Reg. U. S. Patent Office and Dominion of Canada. Copyright 1927, by Radio Digest Publishing Co. All right reserved.

"All the News in Radio"4 to 15
Marcella 4 to 15
ineater of wireless wonders
Fat Darnes wins Annolincer's (un
Norman Brokenshire Strolls WPG Boardwalk
"Miss America"
Mario Viene WOW Dimit
Marie Kieney, WOW Pianist
Big Audiences for Radio Football.
International Radio Conference
Rival Cities Unite on W.F.L.A
ritz Sisters Inrili at WBAL
Ulose-Up of Koxy and Gang
Navy Captures Friends on NAA
War Ace Teaches Flying at KOA
Reminiscences of Famous Sport Events, Major J. Andrew White
Finding and Fixing Trouble
Transform Old Set to Socket
How to Dull on A C Const. La La C D.
How to Build an A. C. Super, hy John G. Ryan
Editorial 24
Advance Programs and Highlights of the Air
Unicial Log and Call Book
Evening at Home Table

#### Looking Ahead

urther Reminiscences of the famous sports announcer, J. Andrew White, will be found in the November issue of Radio Rigest. Major White has had a rich experience as a trained observer at close quarters with some of the world's greatest sporting events.

What is the worth of the Radio beacon? Will this latest device of aerial communication solve the safety problem for flying craft? These questions will be discussed and illustrations shown of the Radio beacon at work in the next Radio Digest.

Making It Work-Another up-to-the-minute discussion of modern improvements in set building by a member of the Radio Digest technical staff. hint of a new set in the offing.

Artists and their studios will be seen and talked about in our next issue of Radio Digest. Perhaps your favorite will be among them. Every issue finds a wealth of interesting information about the personalities who entertain you on the air.

Special articles about broadcasting stations and artists, with photographs, are desired. No manuscripts accepted unless typewritten and prepaid, or returned without return postage being inclosed. All manuscripts are sent at owner's risk.

Newsstands Don't Always Have One Left

WHEN YOU WANT

## Radio Digest

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Please find enclosed check M. O. for Three Dol- lars (Four, Foreign) for One Year's Subscription to Radio Digest, Illustrated.
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#### SHORT WAVES

By Marcella

WGN's Tyson in Dangerous Thirties; Chester Gaylord Hard-Hearted Lo-thario; Eddy Borroff Goes Fishing in Matrimonial Seas; Few Facts About Youngest Baritone; Milwaukee Claims Nate; Golden-Voiced Cecil Disappoints Imogene.

THRILLED! Well, wouldn't you be if two of the handsomest men in Radio sent you love and kisses at the end of a vacation letter written to the Radio of a vacation letter written to the Radio Digest? Oh, how I hope those Mona Motor Twins, John and Ned, come through here after their vacation and I really get to meet them. They saw the Ray-O-Vac twins on their way up north and discovered that Russ Wildey has a new little baby girl. Isn't that darling?

Isn't it terrible how people will tell you things that aren't true and then you repeat them and get into all sorts of trouble? That's what happened to Marcella. Somebody, I wish I could remember who, told me that Rocky Wolf of WLS was not married and it seems that he has been not only once but twice and he has a little son two and a half. I might have known he was too good looking to be single.

Last week, Mrs. J. W., you probably read that Ann Williams was a blond. You know, I thought she was. She isn't at all, she is a brunette with soft

she is a brunette with soft brown eyes. And she is 5 ft. 6 in. tall and slim. Her last name is Heinze. Her husband is very tall and has the blackest hair. Isn't it funny how you can get your best friends mixed up? You also asked about John Reed Tyson of WGN. Here's what Frank Dahm says about him: "John Reed Tyson is about thirty-five—yes, in those dangerous thirties—rather short in stature, with black curly hair and blue eyes. He's WGN's popular morning announcer and he is beloved by the blind and shutins whose special programs he presents. Take warning, gals—he's married!"

The bedtime story teller you admire so at WCX, Helen, is Mr. Tomy, the announcer. Here is what he says about himself. "I, Neal Tomy, am the story teller at Skeczix time. Forty-eight years old. Found a girl at Northwestern university who suited me in 1899, so I married her in 1904, and she still suits me in 1927. My only worry is that I may cease to suit her. We have two kids, the boy 21 and the girl 15. My hair, what there is left of it, is gray. I weigh very little to speak of and from what the kiddies say it must be a lot easier to listen to me than to look at me."

Dorothy, there is not the slightest use in being in love with Chester W. Gaylord, the Lothario of WTAG. He is one of those hardened bachelors wrapped up in music and his broadcasting. Here he has been on the air at least two years and is still single. He was a war hero, and it was while he was in service that he learned to play the saxophone. He used to play with Paul Whiteman's orchestra. The piano is, however, his real instrument.



Tarpon fishing was what Eddy Borroff gave the KYW staff to understand sent him down to St. Petersburg so often. They all thought he was a little funny but did not consider it seriously until Eddy began running down to Columbus, Ohio, and they knew there were no tarpon down there. But Eddy was after the same little fish, that pretty little lass, Marion Law, who used to sing at KYW several years ago. And by the time you read this Eddy will be at the microphone and I shouldn't be surprised if Mrs. Borroff will be there with him.

Fred Feske and Kay Ronayne are both, well, you know, Peg, but not to each other. For some unknown reason each refuses to

well, you know, Peg, but not to each other. For some unknown reason each refuses to talk about it or let any public announcements be made. But then, did you ever know two more dangerous vamps on the air? Awfully glad to get your chatty letter and enjoyed your remarks about Jack Little. By the way, he is married too.

I can't see any reason, N. Dean Cole, why you should think Marcella is someone else than who she is. A blond is certainly not a brunette. How would you like it, if I said you were Mr. Searle just because you came into our office with him and I might easily do that, not having seen you. However, Jesse, Mr. Cole says the wonderful harpist you admired so much at WHO is a young lady named Garnette Arrick, and he promises her complete history and a picture. Look for it next issue.

(Continued on page 14)

## PATRICK H. BARNES WINS GOLD CUP

## **SILVER AWARD VOTED TO JOE** FAASSEN, KSO

Radio Digest's National Poll Finds Most Popular Mike Men in Mid-West

#### Iowa Divides Her Ballots

4th Annual Announcers' Contest Reveals Hosts of Admirers

in Distant States

Field's ballots were spasmodic. There were days when the envelopes opened by the mail department of Radio Digest seemed to indicate that Henry was going to make a landslide, as his fellow townsman did last year. Then there would be nothing. It was thought that those who had been saving for the bonus would make up for the dull periods. This prospect did not come up to the fullest expectations. However, lowa gets the silver cup for genial Uncle Joe of the Berry Seed station.

"Am enclosing my ballots for Milton J. Cross of WJZ," wrote Mrs. A. J. Byrne of Florence, S. C., "and I am hoping that the East can produced a gold cup winner."

Mr. Cross seems to have many friends, but not quite enough to meet the determined efforts of the middle westerners this year. It may be well to remember that the East took the first gold cup awarded, which was presented to Graham McNamee of WEAF at the New York show four years ago.

years ago.

#### FOUR MIKE MEN NOW HOLD PRIZE AWARDS

1924—George Dewey Hay 1925—Graham McNamee 1926—Earl E. May 1927—Patrick H. Barnes

PROBABLY no trophy in the world of Radio has been more widely coveted than the annual Radio Digest Gold Cup. The first one was awarded to George Dewey Hay, the "Solemn Old Judge" who at that time was announcer at WLS. Each year has found the rivalry keener. The cups are always designed to resemble the regulation microphone, and are publicly presented either at the New York or Chicago Radio show.

#### **AXE DESCENDS AND** 17 STATIONS CEASE

COMMISSION SWINGS INTO QUICK ACTION

Hearings for Changes in Power and Wave Lengths Will Begin in Early October

Early October

MEMBERS of the Federal Radio commission, returning to Washington from a general inspection about their respective districts, will soon begin a series of hearings and endeavor to make such readjustments as may seem advisable.

It is expected the approach of cold weather will disclose clashes and heterodyning, not noticeable in the summer time. A complete calendar has not been prepared to date. But the first hearings on the program are scheduled as follows:

October 5—Application of Station KLDS, Independence, Mo., for a change of frequency from 1,260 k.c. to 890 k.c. and an increase in power from 1,500 watts to 5,000 watts. Stations notified: WHB, WOQ, WJAX and KNX.



BARNES IS VERSATILE FORECASTER

Uncle Joe Faassen, KSO, Clarinda, Ia., takes second place in an exceptionally close race for the Radio Digest Fourth Annual gold cup.

Henry Field, KFNF, Shenandoah, made a fast sprint in the final mail receipts and dashed across the tape, third in line.

The contest has been under way much longer than the usual period, owing to the change over of Radio Digest from a tabloid Radio newspaper to a full fledged monthly Radio magazine. As announced, under the original conditions, ballots were received until midnight of September 22nd. The last ballot came from Muscatine, Ia., and was in favor of Henry Field.

#### Two Cups for Pat

Pat Barnes, who took the pace and held it from the beginning, is the first announcer to win two cups. He captured second place and the silver cup in 1926, as many readers will remember. His most intimate friends blamed his fallure to win the gold trophy to a late start in the campaign. He was passed at the finish by Earl May of KMA, Shenandoah. Both cups were presented at the 1926 Chicago Radio show.

This year, Al Carney and other intimates of the WHT favorite, began the campaign with the first issue of ballots and carried through to the end. There was no faltering in the effort to see that Pat received the votes, although the campaign was less spectacular than last year.

#### Iowa Vote Divided

While here the versatile Pat sits along side himself as female operatic queen, Mme. Gargola, who predicts, "It shall be fair, it shall be fair, fair, fair, fair fair and warmer in the southern part of Illinois-ois." At right Mr. Barnes appears as none other than the infallible prophet, Lord Helpus—"Bally, bloomin' rain soaks you to the bloody skin dawntchaknow!"

Strong for Cross

Speaking of Mr. Cross, another interesting letter in his behalf comes from Mrs. Lizzie Moody, 325 N. Hopkins ave., Sayre, Pa. She says:

"Enclosed find complete set of coupons for Milton J. Cross. We comprise a family of three, but sometimes are double this number and we all would vote for Mr. Cross if we had a chance. We all get up early Sunday mornings for his enjoyable children's hour and are always glad when he is at his post, whether in studio or elsewhere. I cannot enjoy church services or entertainments, for I am deaf, but I hear perfectly over the Radio with head phones. Congratulations for the new Radio Digest. It is fine."

Radio Digest's gold cup award is primarily the business of the readers and for

Radio Digest's gold cup award is primarily the business of the readers and for that reason some of the letters that are typical of the many are published.

Just to show that all of Pat Barnes' friends are not limited to Illinois and Wisconsin, here is one from Iowa, where he had his strongest competition.

#### Iowa Votes for Pat

"Please find my series of ballots for the gold cup announcer all marked for Pat Barnes of WHT. Here's hoping good old Pat wins. Now, don't forget to credit the bonus, because I think Pat will need every The Iowa vote was divided among three gld cup announcer all marked for Pat the contestrong candidates. Dean Cole at WHO, Des Moines, got away to the best start, but failed to hold on at the last. Uncle Joe did not start so well, but made consistent gains, especially at the last. Henry last Radio Digest very much improved. I country the contest of th

enjoy it very much and will always be a reader.—Clarence Harper, Bayfield, Ia."

This isn't typical, by any means, but it may cause a few snorts and chuckles in the Erin family:

"Kindly give the enclosed vote to Uncle Joe Faassen. I'd vote for Pat Barnes ex-cept for the simple reason that he's Irish (are you?).—Mable Mapes, Akron, N. Y."

Well, Pat, what are you laughing at?

Well, Pat, what are you laughing at?
Some day WEAF may take down another cup. Anyway—
"I am sending you my ballots for my favorite announcer, Mr. Phillips Carlin of WEAF. McNamee is my very favorite, but as he is not eligible, I cast my vote for Phil.—Mrs. Alice Moe, Erie, Pa."
Final arrangements for the presentation of the beautiful gold and silver trophies have not been completed. However, following precedent, the winners will be awarded the honors at the Chicago Radio show. As in the past the cups are fashioned in the shape of a microphone. The name of the winner and the occasion are engraved on the side.

Owing to the deadline closing date of the contest, the standing of the others could not be determined before going to press with the October issue of Radio Digest. The final vote for all contenders will be given in the November issue of the magazine.

Application of Station WCOT, Providence, R. I., for a change in frequency from 1,330 to 1,130 and an increase in power from 50 to 100 watts.

October 7 — Application of Station WBAW, Nashville, Tenn., for an increase in power from 100 watts to 10,000 watts. Stations notified: WCAT, WBBL, WABZ, WABY, WABW, WFKD, WFBE, WDOD, WLCI, KGCA, KFJB, WEBE, WFBC, KFEL, WIOD, WRAM, WFBZ, KWLC and WMAY.

Application of Station WLBX, Long

Application of Station WLBX, Long Island City, N. Y., to share time with WNJ and WGCP on 1,070 k.c.

and WGCP on 1,070 k.c.

Seventeen Stations Dropped

The first important move on the part of the returning commissioners was to swing the ax on seventeen stations that had failed to apply for renewal of licenses. They were as follows:

KFIQ, Yakima, Wash., Dr. I. M. Miller, 100 watts, 1,440 kilocycles, 208.2 meters.

KFVN, Fairmount, Minn., Carl Bagley, 100 watts, 1,310 kilocycles, 228.9 meters.

KFWH, Eureka; Cal., F. Wellington Morse, 100 watts, 1,180 kilocycles, 254.1 meters.

KFXH, El Paso, Tex., W. S. Bledsoe, 100

meters.

KFXH, El Paso, Tex., W. S. Bledsoe, 100 watts, 1,240 kilocycles, 241.8 meters.

KGES, Central City, Neb., Central Broadcast company, ten watts, 1,470 kilocycles, 204 meters.

KOLO, Durango, Col., Gerald K. Hunter, 5 watts, 1,500 kilocycles, 199.9 meters.

WABR, Toledo, O., Scott High school, 50 watts, 1,070 kilocycles, 280.2 meters.

WCBH, Oxford, Miss. University of Mississippi, 100 watts, 1,240 kilocycles, 241.8 meters.

WCOM, Manchester, N. H., City of Manchester, 100 watts, 1,260 kilocycles, 238 meters.

WDBK, Cleveland, WDBK Broadcasting company, 250 watts, 1,320 kilocycles, 227.1

meters. WEAL, Ithaca, N. Y., Cornell university, 250 watts, 620 kilocycles, 483.6 meters.

(Continued on page 23)

### PICTURING BROADCAST ACTIVITIES



PRESENTING Herbert Lee Koch, the organ wizard at WHO, Des Moines.



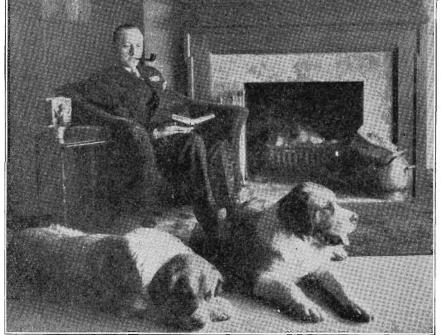
ONE wiggle of D. D. Knowles' little finger and a needle on the Thermionic Microammeter beneath his hand will throw forty-eleven fits. It measures electricity.



46HER beauty of stature and voice are as matched impedance," said the eloquent engineer of WAIU, Columbus, O., speaking of Miss Roso Graham (above). "And what more could anyone say?" asked Don Bernard, director. Miss Graham is contralto in the popular Telling Trio.



FIGHTIN' BOB BROWN," who broadcasts challenge from WGR, Buffalo.



REAL fireside atmosphere makes Dan Casey's "Fireside Hour" at KPO, Los Angeles, a cozy number on the program. There's a real fire in the hearth, two friendly dogs, books, a pipe and a comfy chair—sweet papa! Pretty soft for Dan!



W ALTER MAL-LORY, "Vagabond" tenor at WCCO, Twin Cities, Minn.



A. D. RING, WEAF engineer, ringing up the Red Chain from the new WEAF 50,000-watt station on Long Island. This is the last word in great station structures. The antenna masts stand 300 feet high and 600 feet apart. When Mr. Ring pushes the button the impulse shoots through a cable, three exchanges and into New York City.



JENNINGS PIERCE of KGO is a graduate of the University of California and is considered one of the best agricultural experts on the air.

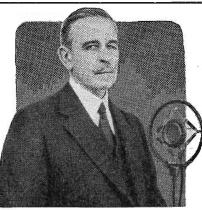


W EAF with its 50,000 watts is small potatoes compared with the new British Post Office station at Rugby, which generates 540,000 watts. Picture shows special plow that turns up a furrow just wide enough to take the wire from the drum, mounted behind.

### RADIO PERSONALITIES AND EVENTS



BLUE CHAIN listeners will be happy to know by the above picture that Miss Gladys Rice, whom they have admired as a singer of the Roxy gang, come up to their visual expectations. She is one of those rare sopranos that mike well.



SECRETARY WORK of the United States department of agriculture, some-times talks direct to the folks on the farm.



THERE'S just one more watt than the engineer allows for when Miss Lillian Watt takes the air from WSM, Nashville. Solemn Old Judge vows she's a peach.



HERE'S a real piano team, Phil Ohman and Vic Arden (right), who percolate through the WJZ net Wednesday evenings.





DON LEE is proud of the KFRC Hawaiians, If they're not dyed-in-the-wool Hawaiians you'd never know the difference over the air.







WHO knows how many invisible eyes may be peekin' through the knothole in a microphone? This timid warbler is going to be exposed, right here. He is Gene Austin, "The Man in the Diamond Mask" at WSMB, New Orleans. Our friend with the stop watch (?) is good old Clyde R. Randall, the director.



FUNDAMENTAL principles of the photo-electric cell, talking movies, television and kindred devices were patented by Theodore H. Nakken (above), Cal.



W HEN Pat Einford gets on one side of the microphone and Bright Keck on the other there's always somethin' stirrin' in the air around WRVA, Richmond. Wouldn't you like to know what the heck Keck is pointing at? Five keys are sure goin't uyelp when Pat brings that left down in about one second.

#### WPG Marine Studio Designed Similar to Luxurious Yacht With Sea Beneath

Norman Brokenshire, Announcer, Takes Listeners for Trip Along Boardwalk and Visit to "Ship"—Peek Through Portholes at Broadcasting

"Station WPG, Marine Studio!
Broadcasting from the Atlantic
end of the Steel Pier, Atlantic City, New
Terson!"

Jersey!"

Behold! Did you ever see such a broad-casting station? A millionaire's yacht—no, it is truly a studio, although it seems to have all the appurtenances for an ocean cruise. Such is the famous Marine Studio of this far voyaging station at the celebrated Atlantic resort.

Norman Brokenshire, mike idol of thousands of listening maidens, portrays the scene most graphically in the course of his broadcast trip along the Boardwalk. He says:

Trip With Brokenshire

#### Trip With Brokenshire

"As we leave the crowd we find we are at the junction of Virginia and the 'Walk. Just a step down the avenue is the Hotel Morton, which gives one of the regular features of the WPG programs... this marks the entrance to the Steel Pier and the beginning of the busiest section of the 'Walk. The first thing we see is a sign, 'Casino Hall—Minstrels and Photoplays.' We make our way up a short flight of stairs and the motion picture is on. We have seen it, so out we go to the great ocean on Steel Pier.

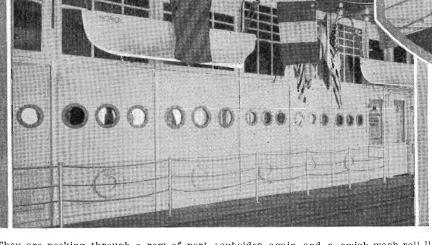
motion picture is on. We have seen it, so out we go to the great ocean on Steel Pier.

"We recognize the mammoth music hall. Descriptions over the Radio tell us that it is here the great bands of the country play every season. Sousa was here a short time ago and now it is Edwin Franko Goldman.

"A sign points the way onward to the WPG Marine studio and solarium. That's a good idea—let's go out and see just what a broadcasting studio is like! About a quarter of a mile in the general direction of a transatlantic flight brings us to a vessel—a ship—well, a yacht, to be more exact. Yes, it certainly looks seaworthy. Let's go aboard. Naturally we'll go right up this gangplank—be careful, please, and watch your step. Up the gangplank we go. A crowd. It's a typical Atlantic City crowd, pleasure bent, well dressed, orderly—yes, they are peeking.

here, too, the music of the waves as they dash against the pier pilings." The voice De Luxe cabin in WPG Marine studio (above). Marie Sundelius (left), Metropolitan Opera prima dona, one of the WPG distin-guished artists. MARINESTUDIO

Above is the gangplank entrance to the unique Marine Studio of WPG, municipal broadcasting station at Atlantic City. At left are portholes where visitors may observe artists at work.



They are peeking through a row of portholes into the interior of the ship. Rather brazen, possibly, but everybody else is doing it, so we'll just peek through, too. Oh! The studio is inside. They are broadcasting. But, inasmuch as we are regular listeners and all that, I think we can do better than peek through the portholes. Let's try the door—there, where the port and starboard lights are shining. We must be very quiet as the door opens to avoid any disturbance that might go out on the air and spoil what's going on. I'll ask first . . . May we go in? Thanks. Now we'll open the door very quietly. Everybody quiet!

#### Only Rehearsing

Only Rehearsing

"That was pretty; did we intrude? Were you broadcasting? Oh, just rehearsing. Oh, I see, for the program next Wednesday night. We'll tune in. Thank you. And so we make our way from the only broadcasting studio that is located over the ocean. Out again into the crowd that is always between the studio and the ballroom, for in there they dance to the music of Ted Weems and his Victor Recording Orchestra.

"Let's see if they are playing now." Brokenshire's voice gives way to the music of the orchestra before he resumes his descriptive journey. Then he continues:

"You see, the beauty of this dance hall over the ocean is, that if you get a little warm, you make your way out here to the very end of the Steel Pier, nearly 2,000 feet from the shore, and what a breeze, what crisp salt air! How invigorating, refreshing, restful! There is music

subsides again and a swish-wash-roll-lll is heard as the microphone is lowered to the water's crest.

Norman goes for the eight miles of the Boardwalk, but we'll stop here, because we thought you'd like to get a bit of the atmosphere of the remarkable WPG—"World's Play Ground"—broadcasting station.

on.
Each September finds WPG a partic-

Each September finds WPG a particularly attractive center. All the nation turns eyes and ears toward the Boardwalk. There Miss America is chosen as fairest of the fair. Miss Lois Delander of Joliet won the honor this year for Miss Illinois. WPG belongs to the municipality of Atlantic City. Its modern equipment and technical facilities make it possible for listeners in Europe frequently to hear the programs broadcast there. An interesting reception room with conveniences and continuous entertainment are provided for the welcome of guests at Atlantic City. The director is Edwin M. Spence.

#### U. S. Radio Leads

U. S. Radio Leads
Frequently the question recurs, "Where does the United States stand as compared to other countries in broadcasting?"
The latest figures available show that there are approximately 1,100 broadcasting stations in the world. Of this number over half are located in the United States. Of the 13,500,000 receiving sets scattered over the world about 6,000,000 are located in the United States. American made apparatus both for transmission and reception is unsurpassed, according to the sales reports from all parts of the world.



THEN MISS ILLINOIS finally stood walone as the queen of American beauty she was so happy she almost wanted to cry. No girl from Illinois ever before had won the title of "Miss America" and so many had tried! So Lois—her private name is Lois Delander and she lives in Joliet—accepted an invitell the folks about it over WPG. invitation to

#### WOW PIANIST LIKES MUSIC ALL THE TIME



Marie Kieney, WOW Pianist

ARIE KIENY, charming pianist and

ARIE KIENY, charming pianist and assistant program director of Radio Station WOW at Omaha, has won for herself the title of "Nebraska's most musical girl."

"Music hath charms," quoth petite Marie laughingly, "and also harms. Some day it will be the end of me."

She arises from sweet dreams of music at an early hour, and after a hasty breakfast tackles the keys on the piano in her home. Marie is conscientious and therefore insists on two hours of practice each day.

This done, she is prepared for a day of teaching. At noon she is interrupted by a brief luncheon. She is now in full swing of her daily musical activities. As the sun sinks into the horizon she dons her hat and coat and hies for the WOW studios. There she grabs her files and spends an hour or two talking music to Radio entertainers and answering endless inquiries pertaining to choice of selections, time of auditions, proper studio dress appearance, and the like.

Suddenly something goes wrong with the

and the like.

Suddenly something goes wrong with the program. An artist has failed to appear on schedule. Marie dives into the music rack and brings out a copy of a masterpiece by Bach, Rachmaninoff, Rubenstein, or what have you, and she fills the gap, noblesse oblige, and how!

This is likely to continue until ten or eleven each evening.

eleven each evening.

#### Wendell Hall in Merger

Wendell Hall in Merger
Wendell Hall Music Publishers has acquired all assets of the former Dellwoods
Music House, organized by Wendell Hall
in 1917. In effecting this deal the Wendell
Hall Music Publishers' catalog has been
increased to sixteen publications and Mr.
Hall becomes sole owner of all rights to
his numerous song hits.

#### New Code of Ethics

M. F. Flanagan, executive secretary of the Radio Manufacturers' Association, has compiled a written code of ethics for the Radio dealers, which is available at the Chicago office of the association, 32 West Randolph st.

## Big Radio Audience Follows Grid Games

#### Famous Sports Announcers of Stations Plan Broadcasting Usual Graphic Play-by-Play Football Reports

Watch 'em go! Hot dog! Twenty with boy! Touchdown!"

Atta boy! Touchdown! Touchdown!"

Atta boy: Touchdown! Touchdown!"
Can't you just see those hard muscled huskies crouching, leaping and smashing through to victory?
The football season is under way. Greatest enthusiasm ever known in the history of the game. If you can't knock off to squeeze into a seat on the sidelines you can get a Radio whack at two or three games

est enthusiasm ever known in the history of the game. If you can't knock off to squeeze into a seat on the sidelines you can get a Radio whack at two or three games of an afternoon any Saturday. And it's almost like being there in person the way the bright young sport announcers hand it to you over the air.

No question about it, Radio has been the salvation of many a waning sport in the past few years—not to intimate for a minute that football ever could be classed in that category. But every year sends out a new grist of graduates and out of those who retain an enthusiastic interest in college and university sports.

Gate Man Sees Gain

The man at the gate has been able to observe that during the last three and four years the out-school interest and attendance has increased from fifty to seventy-five per cent. There have been a few outstanding heroes who pulled, of course, but the bulk of this growth undoubtedly comes from interest aroused by hearing the games over the air.

So the football season of 1927 starts with a rush from Cambridge to Berkeley and all in between. The big university games of the East will be heard over the leading chain stations. It is more than likely that the most important games on the Pacific coast will be relayed through to the rest of the country. Jack Keough, famons sports announcer at KPO, Los Angeles, already is on the job—"It's a pass! It's a pass! There he goes! Around left end—he's still going. . ." That's Jack. He's vivid. Nine of the most important Pacific Coast Conference games will be reported through KPO this fall and winter.

Keough Covers Pacific
The games will include those played at

will be reported through KPO this fall and winter. **Keough Covers Pacific**The games will include those played at the University of California Memorial stadium, Stanford stadium, Los Angeles, Seattle and Portland. KPO also will broadcast any post-scason games between the champions of the East.

champions of the West and the champions of the East.

In the central states the greater part of the interest will center in the games of the Big Ten Conference and the intersectional alliances. There are a dozen good announcers in this area. Outstanding, perhaps, are Quin Ryan and Frank Dahm of WGN, Chicago Tribune station; Hal Totten and Harry Beardsley of WMAQ, Chicago Daily News; Shorty Fall of the Chicago American and Carl Menzer of the University of Iowa.

William Hedges, Radio editor of the Chicago Daily News, says of his team:

With Hal and Harry

"When the football team from the University of Oklahoma comes to Chicago on October first to engage Coach Stagg's Maroons on the Midway, Hal and Harry, the famous team of football announcers of station WMAQ will be on hand for the fourth consecutive year to portray University of Chicago gridiron struggles for the lundreds of thousands of fans scattered throughout the middle west.

"As in years past Hal and Harry will broadcast every game in which the University of Chicago team engages, including out of town games with Ohio State at Columbus on October 29th and the Uni-

versity of Illinois, at Champaign on November 12th.

"Because University of Oklahoma won the championship of the Missouri Valley last year, the first game of the season takes on additional interest. Later on the Maroons will entertain the University of Pennsylvania on Stagg Field in their sec-

game of the season. Six of the eight games are with conference teams and on the outcome depends Chicago's chance for winning the con-ference championship. Coach Stagg says this year's sched-ule is the hardest in thirty-six years. "Just as the broadcasts of the baseball games at Wrig-ley Field, by Hal Totten, re-sulted in increasing both in-terest and attendance of the Cubs' games, and necessitated the addition of nearly 10,000 seats within the park, so has the football interest and patronage been increased by broadcasting. "Not only has the University of Chicago not been able to accommodate all

Maroons Overcrowded "Not only has the U

At left WIP an-nouncers following game at Franklin field, Philadelphia. Jack Keough (right) KPO sports an-nouncer.



those who sought tickets for the games, but the same condition has existed in other centers, both middle west, east and west. The Chicago school has endeavored to overcome the handicap of limited seating facilities and even now contractors are at work adding thousands of seats for the autumn football customers.

"Fifty-six thousand seats will be available for the spectators of the home games of the Maroons and probably twenty times as many more "invisible spectators" will get a typical football thrill by virtue of the unsurpassed technique which Hal and Harry have developed by their four seasons before the microphone.

"During the course of the football season the fan mail of the two football announcers comes in veritable floods. Letters come from men and women, girls and boys. Nearly all recite the enjoyment which the vivid word pictures of line bucks, end runs or forward passes have given them, and they bear the postmark of many states and many cities, both large and small. Those from sparsely settled communities never fail to express the hope that some day the writer may see such teams of struggling collegians in the Maroon stadium.

Harry Knows Lots the Maroon stadium.

Harry Knows Lots

"Harry Beardsley, one member of the announcing team, has long been a student of football. Even before the war, when a student at the University of Chicago, he

At left is Quin Ryan, famous announcer of WGN, who has covered games throughout the mid-west section. Below is Carl Menzer on post of duty at the University of Iowa. He is an outstanding university Radio announcer.

narrated the doings of the Maroons for a Chicago paper. After graduation Harry came to The Daily News and after serving his apprenticeship as an advanced cub rose steadily in his profession and has been made Real Estate Editor. Extremely versatile and with keen descriptive ability, he makes an ideal announcer for the game which he loves so much.

"The other member of the team, Hal Totten, is a Northwestern University man. There is harmony between the boys except on those infrequent, occasions when the Wildcats play the Maroons. Then there is partisan broadcasting, but of a kind liked by the fans.

"This year Northwestern does not have a place on the Maroon schedule, so there will be harmony in the tiny booth, high up on the north stand of the stadium, from which the two famous announcers view the plays and enable many, many thousands to attend the games by Radio."

WGN will feature the professional as well as the university games this year, according to a statement from the publicity department which follows:

WGN Broadens Scope

"For the fourth successive year WGN, Chicago, is to broadcast the majority of this season's important mid-west and intersectional football games in which midwest teams are involved. The scope of WGN's football schedule for the 1927 season was made apparent today, when a tentative list of some of the games to be broadcast was released by the station.

"At least one big intersectional clash finds a place on the WGN card yearly, and this time it will be the Southern California-Notre Dame game to be played in Chicago on Nov. 26. Soldiers' Field has been selected as the site of the game, and wGN expects another record audience such as that which listened in on the broadcast of the Army-Navy game from the same spot last year. Coach K. K. Rockne of Notre Dame has already extended permission to WGN to broadcast this important contest, which, judging from the paper strength of the two teams at the present time, is liable to have a direct bearing on (Continued on page 10)

(Continued on page 10)



Harry Beardsley and Hal Totten (right) in the famous WMAQ "football team" of Hal and Harry, who will cover all University of Chicago games this season. They have been teaming on sports announcing for four years,



#### Broadcasting Art Presents Problem At International Radio Conference

Diplomats from Forty-three Governments Will Convene at Washington to Revise Code of 1912—May Provide Broader Fields for Stations—Soviet Russia Will Not Participate

By L. M. Lamm Washington Correspondent of the Radio Digest

THE stage is all set here for the Inter-THE stage is all set here for the International Radio Conference which opens in the auditorium of the Chamber of Commerce of the United States, where the past two national Radio conferences have been held, on October 4, to continue, no one knows how long, for a month, or perhaps two. perhaps two.

perhaps two.

This is the first time that an international Radio conference has been held in the United States and this is the fourth conference of its kind to be held. The first conference was called in Berlin in 1903 shortly after one of the Radio companies refused to transmit a part cable message sent by Prince Henry of Germany to President Roosevelt. At that conference an agreement was drawn up but was not signed by the various countries until 1906, when a second conference was held in Berlin.

Colone! Samuel Reber, alternate; Brigadier-General John J. Carty and John Beaver White.

These delegates are to be assisted by a large number of technical advisers representing the Federal government departments as follows: Irvin Stewart, State Department; Lieut. E. M. Webster and Lieut. R. J. Mauerman, Treasury Department; Lieut.-Col. Joseph O. Mauborgne and Major William R. Blair, War Department; Captain S. C. Hooper, Commander F. H. Roberts, Lieut.-Commander Lowel Cooper, Lieut.-Commander Roswell H. Blair, Lieut.-Commander W. S. Hogg, Jr., and Lieut. A. I. Price, Navy Department; Charles F. Marvin and Edgar B. Calvert, Agricultural Department; J. H. Dellinger, L. W. Austin, W. E. Downey, Arthur Batcheller and Eugene Sibley, Commerce Department; W. N. Brown, Interstate Commerce Commission, and H. C. Moore, United States Shipping Board. These delegates are to be assisted by a



#### CLEARWATER AND ST. PETERSBURG DIVIDE PROGRAMS OVER WFLA IN CO-PARTNERSHIP



ERE are three members of the John Igram Gang who entertain over WFLA, WSUN and WMBR—the Little Florida Chain. The talent is drawn from the Publix theaters in Tampa and vicinity. Above we behold Miss Emily Day and Hamlet, one of her great Danes. Hamlet has a bit on the stage and makes his bow (wow) on the air. At the left is Miss Irene Reynolds, soprano, who first came into Radio prominence as one of the WJAZ stars.

#### FOOTBALL ON THE AIR

(Continued from page 9)
the national football championship for

"Practically all of the Big Ten Confer-"Practically all of the Big Ten Conference schools are represented in the games which WGN will broadcast this fall. Contests involving Illinois, Michigan, Northwestern, and Minnesota are being considered and will probably find a space on the WGN schedule. In arranging its football program for 1927 the station is bending every effort to see that its listeners get the cream of the games to be played in the midwest. The Big Ten schools noted above and Notre Dame all have games scheduled which should provide plenty of thrills for listeners.

Bears and Bulls

Bears and Bulls

"In addition to the collegiate games,
WGN this year will resume its Sunday
afternoon broadcasts of the season's most
important professional games being played
in Chicago. Pro football has been maing

ynolds, soprano, who first came into e WJAZ stars.

rapid strides towards popularity, and this year the games of the Chicago Bears and the Chicago Bulls, the Windy City's representatives in the professional pigskin circuits, will be broadcast. George Halas, manager of the Chicago Bears, has already agreed to permit WGN to broadcast the Bears' games which will be played at Wrigley field. Benny Friedman, star quarterback of Michigan last year; Ernie Nevers, Pacific Coast idol, and Red Grange will be some of the stars who are to caper on the pro gridirons this year in games which WGN is to radio.

"When Quin Ryan gets before the microphone for the collegiate games WGN is to broadcast this season, it will mark his fourth year as a football announcer. Quin has broadcast all of the football games WGN has presented in the past, and is one of the most popular sports announcers in the country. Listeners will remember his stellar work at the Army-Navy game last year; the Chicago-Illinois game of two seasons ago, and at a host of other interesting contests.

"WGN's professional football broadcasting will again find Frank Dahm at the "Mike." Dahm broadcast all of the progames presented by WGN in 1926, and he has his followers among the thousands of listeners who follow the fortunes of the professional teams. Listeners remember best his vivid presentation of the Chicago Bears-Green Bay Packers game last year, which was played in zero weather."

Harvard, Yale, Dartmouth, Columbia will all be adequately covered by such famous announcers as Graham McNamee, Phillips Carlin, Major J. Andrew White, and a score of other veterans of the game A schedule of the games compiled to the time of going to press with this issue of Radio Digest is published in another column.

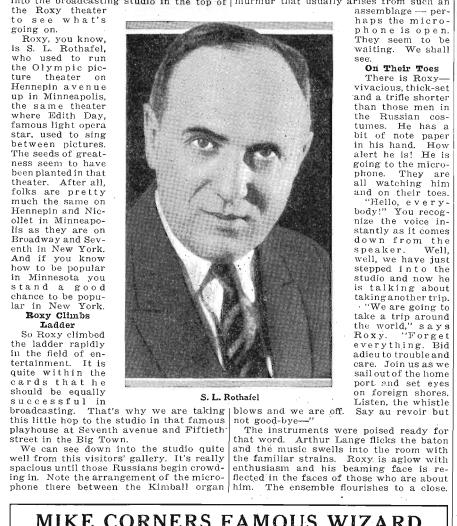
#### Close-Up View of Roxy's Gang "On the Air" in Studio Over Playhouse

Famous Amusement Manager Infuses Own Personality in Radio Programs for Listeners Over WJZ and Blue Network—First Found Fame in Minneapolis

To Is twilight of a Monday evening—
time to light up the panel and pick up
Roxy and his gang from WJZ or one of
the blue chain stations. Just touch that
dial over another hairline. There! Perfect!
Now, while we're waiting for the first
announcement, you might ease back in that
comfy chair while we buzz over for a peek
into the broadcasting studio in the top of
the Roxy theater
to see what's
going on.

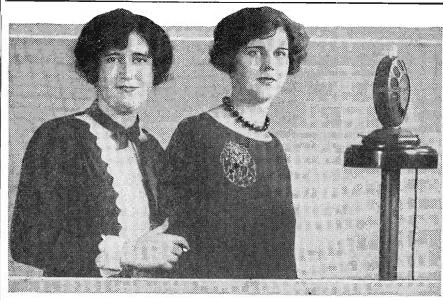
and the grand pianos. No slackness in the
appearance of those musicians, even if
they are invisible to their audience. All
are smartly arrayed in their formal attire
of immaculate white and evening black.
The women—ah, that adorable Gamby—
are exquisitely gowned. There is no sound.
Perhaps the glass partition cuts off the
murmur that usually arises from such an
assemblage — perhaps the microphone is open.

phone is open. They seem to be waiting. We shall



MIKE CORNERS FAMOUS WIZARD

#### THEY CALL BALTIMORE BOYS HOME



WHEN Friday night comes along and ing, and there's nothing Mary and Geneva do better than songs of love and romance. For the edification of those who often have larged and sweetness to the blended voices of these two that is little short of bewitch-

Frank Moulan pops up in the near vicinity of the microphone with a snappy jest and Roxy slaps back with tingling repartee.

and Roxy slaps back with tingling repartee.

Novice Faces Mike

The "awful" moment has arrived for a novice to sing for the first time into the microphone. She hesitates, but Roxy is there to steady her and put her at ease by a friendly pat on the shoulder and gently turning her face toward the instrument. She performs her part creditably. She starts to turn away. A door slams. The sunny countenance of the director turns to a thundercloud. He summons Douglas Murray and directs that the offender be vigorously reprimanded.

Now the Russians are getting ready. The unhappy incident is forgotten. Roxy takes personal command, guiding the singers through their plaintive tune with inspired feeling. Now comes Maria Gambarelli, the great Gamby and Douglas Stanbury—"papa's pets."

There's a short orchestra number. Roxy, so quick and vital himself, feels it is lagging, and impatiently he steps toward them and begins to infuse his own vitality into their playing and the difference is noticeable.

An Operatic Aria

Now Harold Van Duzen bursts into an operatic aria and Roxy, the play boy, cannot resist the opportunity, to express it mildly, to "cut up a bit." He gesticulates, grimaces, sighs, while all the gang hold their sides lest they split with laughter, and in the midst of it Roxy notices that a lax member of his troupe is only just putting in a belated appearance. Stern disciplinarian that he is, he frowns, and the deep ridges between his penetrating dark eyes appear, while the merry mood has been interrupted by this infraction of the stern military principles of obedience and devotion to duty which Roxy instills into his organization. But his displeasure vanishes as he hears the stirring melody of "Eli Eli" sung by Gladys Rice in her clear soprano voice vibrant with feeling. It is nine o'clock now, and Roxy steps before "Mike" and you hear "Good night, pleasant dreams and God bless you!" and he steps from the microphone. The visitors from the gallery surround him questioning, congratulating, asking for photos, autographs, as the gang quietly disperses, to be followed soon by Roxy, who, having been at the helm since early morning, is content to call it a day.

#### Broadside Broadcast from U.S.N., NAAWins Friends in Latin Americas

Sister Republics to South Appreciate Courtesy Programs from Government Station in Washington—All Assist with Representative Artists

Music is the universal language. It stirs the same emotions in the human breast everywhere.

However, there are those who believe international peace would be on a surer footing if the individual listener in the home

THE ether wave is no respecter of national borders. It may pulse from the heart of one country and vibrate in the heart of a dozen others at the same time. Music is the universal language. It

a surer footing it the individual listener in the home could understand the words spoken by the speaker or singer across the boundary. In England the British broadcasting company is teaching the subjects of King George to understand the programs across the channel by language courses over the air. This has proved a great boon to the English DX hound, who is just as passionately interested in

der slightly differ-ent circumstances. Here the problem is not so intricate, Here the problem is not so intricate, as we have but one dominating language besides English, and that is Spanish. The government has not made a point of teaching North Americans Spanish, but has been sponsoring good will programs by artists from Spanish speaking countries to the south over the naval station, NAA, at Washington, D. C. Series of Concerts

These programs began with the Pan-American conference last fall

Pan-American conference last fall and have continued at regular intervals since then with most gratifying results. On September 9 Senora Milla Ybarra de Dominguez, formerly of the Mexico City Grand Opera company, and well known to Radio audiences in Radio audiences in the United States,

ly interested in Senora Milla Ybarra de Dominguez starred in one of the best Panhis American cousin across the Atlantic.

Uncle Sam has been carrying on the good work in the western hemisphere un-



TRAPPED at last! Thomas A. Edison, evaded and dodged the ubiquitous microphone time and again. Somehow he never has warmed up to the idea of Radio broadcasting. But came the Golden Anniversary of his invention of the phonograph. Something had to be done about it. Three

#### Silver Masked Tenor of Silvertown Still Held a Mystery to Many Fans

Noted Vocalist Started Career as Song Booster for Music Publishers-Discovered by Radio for Remarkable Voice—Climbs Quickly to National Fame

chestra are anxious to hold his identity to the name that made him famous. Many Radio listen-

ers have constantly maintained that the

ers have constantly maintained that the Silver Masked Tenor is only a pseudonym for a celebrity already famous in both hemispheres. They declare that he wishes to keep his true identity concealed for fear that a revelation of the supposed truth would interfere with his professional standing.

But this surmise is erroneous. In an interview with the writer the Silver Masked Tenor admitted that he had never made any claim to fame before the Radio found him. He was a good singer. The publishers paid him for plugging their songs in theaters or wherever he could. His name was scarcely known beyond the boundaries of New York amusement center.

It was on a mission of this sort that he

amusement center.

It was on a mission of this sort that he was "discovered." He had a voice remarkably adaptable for microphone trans-

"Again and again I was astounded to be told that I was none other than John Mc-Cormick, the famous Irish tenor. I felt highly flattered. But it happens to be my good fortune to broadcast well and broadcast well, and that, I believe, is the secret of my success."

when the orchestra made a recent vaudevil tour across the country Mr. Wrather the Masked Tenor—was received

Tenor—was received by many prominent people and entertained in the homes of his admirers in the various towns where he visited.

In the picture he is shown being received at the capitol in Pennsylvania and shaking hands with the governor of the state. When he returned to the WEAF studio he was joyfully welcomed and doubtless he has been as happily received "home again" by his millions of friends who know him only as the Silved Masked who know him only as the Silved Masked Tenor. belong to the Washburn Crosby company, according to the following statement issued by its owners:

"Washburn Crosby Company of Minneapolis, owners of Station WCCO, will from now on be not only owners but sole operators of Gold Medal Flour Station, WCCO."

This announcement was read at C.



#### Twin Cities Lose WCCO to Mill Co.

Station Will Continue to Use Established Features at Both Studios
—Gammons in Charge

STATION WCCO, the leading broad-caster of the Northwest with studios both in St. Paul and Minneapolis, will no longer be identified as a community en-terprise. It has gone the way of many other stations dependent upon support by local business houses. Hereafter the Gold Medal station will



#### DIRECTOR THINKS RADIO FANS KNOW



#### Aunt Missouri of Southland Croons Lullabyes and Sings in Washington

Celebrated Radio Entertainer Brings Joy to Mountain Children With Her Stories of the Sunny Southland—KOMO Growing in Fame and Popularity

THIS entertaining character is known to the listeners of KOMO as "Aunt Missouri." She is not so dark as she looks in the picture but she sounds even darker when the little folks up in the state of Washington settle down before the loudspeakers and listen to her Southern folk songs and bed time stories. Aunt Missouri doesn't need to depend on books for HIS entertaining character is known to

souri doesn't need to depend on books for her talks to the chil-dren. She invents her own tales and the children say they are the best stories of all of all.

Children in other Children in other parts of the United States have heard Aunt Missouri and many will be surprised to learn for the first time that she is now at home in the "far Northwest."

But she will never

m the Tar Northwest."

But she will never forget her childhood in the South. She had many strange adventures which she now turns to good account for the benefit of many other children who know little of the happy hours to be enjoyed in the land where summer days are long and winter just passes by. Station KOMO is a comparatively young station in the national family of broadcasters but it has made itself known from its home in Seattle to Miami under the

casters but it has made itself known from its home in Seattle to Miami under the skillful direction of G. Donald Gray. It has a number of exceptionally good orchestras serving the listeners—some listeners are remote from the cities and high in the mountains where reception usually is good, where Radio is about all the contact to be had with the outside world for many weeks

Sometimes Aunt Missouri receives very personal letters from the children in the mountains and for their sakes she often sings some special song or tells some special story to make the day a bit more cheery and happy.

Soon the winter will cut off travel from these distant homes

Il cut off travel from these distant homes and then she will be called upon to do double duty. She is ready to perform and considers it more fun than giving her impersonations on the stage. She has developed a special technique to make her stories realistic through the loudspeaker.

make her stories realistic through the loudspeaker.

Following is one of many interesting letters received by Aunt Missouri from a little girl. "De ar Aunt Missouri: I am 11 years old and I want to thank you for the nice stories and the songs. I think the folks in Missouri must have a different language than we do. But I never have been anywhere else than right here. What is a 'possum? I have a young mountain lion young mountain lion

in a cage. It was caught in a trap. I would like to read a book with your stories. Anna Louise Bezdek."

The children's hour at KOMO is sched uled for every evening from 5:15 until 5:45 o'clock.

WASHINGTON. — Blue law advocates have petitioned the federal Radio commission to stop all Sunday programs except those of a religious nature. The petition may be carried to Congress.



#### Everybody Went to Radio Banquet

Dinner Guests Numbered Millions in Record Hook-up—Rival Chain Artists Entertained

OW did you enjoy the great Radio banquet?

Of course, in the words of a well known Radio manufacturer, "you were there."

It certainly was a grand little party. Probably the most largely attended social function in the history of the world. Imagine the busy society editor flitting about from receiver to receiver among the listeners of the hundred or so broadcasting stations that served the banqueters around the nation. Go a step further and imagine her describing the costumes worn by the various guests who attended via the various guests who attended via

From the spick and span of the most

From the spick and span of the most formal attire to bedroom slippers, kimonas, pyjamas and nightcaps.

Doubtless the Radio industries banquet will stand as a record for some time as a far reaching hook-up between broadcasting stations. Doubtless, too, it was the most extraordinary achievement of co-operative broadcasting on the part of the world's leading stations.

Night of Revelve

WAR ACE BROADCASTS SEASON COURSE ON

"AIRPLANES AND HOW TO FLY" FROM KOA

#### WICC DEALS BAY STATE LISTENERS NINE ACE CARDS



monies, served the National Broadcasting monies, served the National Broadcasting company as unselfishly as he did his own Columbia Broadcasting system. Columbia station listeners enjoyed National artists and National station listeners enjoyed Columbia artists. And for the Radio listener there was no expensive cover charge. The greatest—yes, undoubtedly the greatest hook-up ever—until the next Radio Industries banquet.

#### Plan Communications Board

Night of Revelry

It was a glorious night of revelry, with the most expensive talent singing, playing and cavorting for the joy of Radio listeners, great and small, in homes of luxury, hall bedrooms, farm houses, roadside camps, dotting the continent from coast to coast and mountain top to mountain top.

Business rivalries were forgotten.

Major J. Andrew White, master of cere-

THIS page is our packed deck. Ten aces with one in the hole! In this particular corner we have Captain Julian Webster and his Bay State Aces, who regale Bay Staters and their neighbors from the Bridgeport, Conn., studio. All of these Aces take the air regularly, but the one in the lower left-hand corner uses both his wings and his voice. The Ace in the hole is Captain Webster, himself.

#### CAROLING CAROLINE ON WEAF-RED CHAIN



MISS CAROLINE ANDREWS is one of the popular songbirds often heard from the New York studios of WEAF and through this station to the many other broadcasters connected with the Red Net of the National Broadcasting company. She also has appeared on the operatic stage and concert work. Her statuesque beauty lends itself charmingly to the Spanish costume shown in the above picture.

#### WENR-WBCN TO HAVE SUPER POWER PLANT

Insull Electric Interests Contemplate \$350,000 Improvements

MORGAN L. EASTMAN, manager of the MORGAN L. EASTMAN, manager of the twin stations, WENR-WBCN, has advised Radio Digest that the holding company, Great Lakes Radio Broadcasting company, is planning the immediate construction of a new power plant for the operation of a super station near Joliet, Ill. It is expected to have the plant in operation by the forther than the plant in operation by the forther transportation.

struction of a new power plant for the operation of a super station near Joliet, Ill. It is expected to have the plant in operation by the first of the year. An appropriation of \$350,000 has been made to complete the work.

The Great Lakes Radio Broadcasting company is a subsidiary of the Insull electric interests, which dominate the central states. The two stations were purchased after the National Broadcasting company took control of the Westinghouse station, KYW, through which Mr. Eastman of the Commonwealth Edison company has been broadcasting since the first broadcasting towers were erected in Chicago. The studio and control room will continue in the Straus building, for the present. Although an increase of power is expected no change is contemplated in the 288-meter wave length.

#### Thousands Celebrate Air Hero's Day, KMA

VER since Clarence Chamberlain took the first back seat driver on a hop across the Atlantic, Iowa has been preening its feathers and strutting about among the other states as the cock of the walk. It's big enough job to fly across the ocean, but every family flivver driver can appreciate the handicap of a back seat driver. So when Mr. Chamberlain, favorite son, came safely back to his home state, where the tall corn grows, Iowa certainly was proud. That may account for the 10,000 visitors who assembled in Shenandoah when Mr. Chamberlain was a guest at the KMA broadcasting station, owned by the May Seed & Nursery company. He was introduced to the KMA audience and VER since Clarence Chamberlain took

the visible audience by Mr. Earl E. May. The local merchants called it "Chamberlain Day at KMA."

Incidentally, this first week in October will witness the dedication of the new \$50,000 auditorium at KMA. It will have a seating capacity of 1,000. In connection with the auditorium will be one of the finest broadcasting studios in the United States. There will be a celebration throughout the first week of October. Further details will be published later.

Clarence E. Chamberlain, transatlantic flier, in foreground and part of crowd that at-tended "Chamberlain Day at KMA" in Shenandoah, Ia. (below).





near future.

### Broadcasting of Interest to Home Makers

Experts on Air Tell How to Rid Skin of Summer Blemishes

HAT deep coat of tan and those un-

THAT deep coat of tan and those well-welcome freckles do not look so well when the outdoor girl dons her fall clothes, and when she puts on her dainty evening dresses her neck shows a dis-tinct line where the bathing suit ended. Her arms look as if they had a high water mark. Two of the best known beauty experts on the air have come to the rescue of the well-dressed woman with several hints about treating the skin so that it will once more look attractive.

These two recipes for bleaching the skin are harmless remedies which can be made at home, and if used as directed will produce the required results. You can thus become your own beauty doctor.

Take one cucumber, peel and mash well. It can be put through the food grinder, but save every drop of liquid and strain well. To this add the juice of one-half lemon, ten drops of tincture of benzoin and place these in a six-ounce bottle. Then fill with witch hazel. Use this to cleanse the face every night. This amount should last about one week. It will sting a bit when applied, but it will chase tan and freckles like magic and is very good for all types of skin. Try it, you will be delighted.

Doris Lee, KDKA

Doris Lee, KDKA

\* \*

The simplest bleach that you can use, and one of the effective ones, is Epsom Salts. Make a paste of the salts and water and apply it to the arms, face or other affected parts very often. For the arms and hands a good bleach may be made of one ounce of almond meal, ten drops of tincture of benzoin, and one-half ounce of honey. These three ingredients should be made into a paste and applied.

Much of the freckled and tan condition of the skin may be avoided if phantom powder is used before exposing the face to the sun. Phantom powder which is a non-greasy powder base can be obtained from any number of beauty shops and should be applied from the cake with a sponge. This makes a smooth protecting powder base for your face powder.

Florence Frey, WLW

Health and beauty hints are given by stations all over the United States. No matter how isolated the woman, the latest ideas on how to take care of her hair, skin and general health (which has so much to do with beauty) are brought to her directly through her loud speaker. The talks on Diet and Health at KYA are receiving much attention from Western fans. On Mondays and Thursdays the North Atlantic coast fans receive lessons in beauty through WEEI. WEAF is also doing its share toward keeping the American woman the best looking in the world.

Menus for "Packed Lunches"

By Judith Anderson

Last issue we did not have the space to include the menus for "Packed Lunches" sent us by Mrs. Anderson of WLW. As these may offer some valuable suggestions to mothers, we are giving them to you this month.

Mrs. Anderson has planned these seven

Mrs. Anderson has planned these seven Mrs. Anderson has planned these seven lunches to give the mother an idea how the packed lunch can contain the proper amount of nourishment and yet have variety and interest. The most important part of the lunch is the warm drink. She varies the cocoa with creamed soups which contain the same amount of food value.

Cocoa in Thermos Whole Wheat,
Bottle Chicken and Lettuce Sandwiches Apple.

Sponge Cakes (2)

Chicken Noodle Soup Cream Cheese and in Thermos Bottle Rye Bread Sand-wiches (2) Pear Cup Cake

Pear 3
Tomato Soup (Ther- Lamb and Lettuce Sandwiches Small Bar of Milk Chocolate Celery Soup (Ther-Cold Slaw Sandmos) wiches (2)
Blanc-mange in cus-tard cup

Cocoa (Thermos) Sponge Cake Chopped Ham and

Egg Sandwiches Potato Soup (Ther-

Celery and Nut Sandwiches (2) One Slice of Ginger-bread. 3 Plums Brown Betty in Custard Cup Cocoa (Thermos)

Peanut Butter Sand-wiches (2)

Never include pie in a youngster's lunch and seldom cake. Such desserts are not for children. Furthermore, both pie and cake are hard to pack nicely. A simple cup cake or piece of sponge cake may be used occasionally, but it is a better plan to use some kind of good cookies or rocks.

Rocks
Betty Crocker, WCCO

Betty Crocker, whose recipes are nationally known to the women listeners, has given us the following recipe for rocks.

1 cup shortening 1 teaspoon cinna

1 cup shortening 1 teaspoon cinna
1½ cups brown mon

sugar ½ teaspoon salt

2 eggs 1 cup raisins

3 cups flour ½ cup nut meats,

1 teaspoon soda broken

Cream the shortening and add the sugar gradually.

Children's Hot Lunches

Mrs. Peterson, WENR-WBCN

Mrs. Peterson, whose pioneer work in broadcasting cooking chats over KYW is familiar to most housewives, needs no introduction. She is now broadcasting from WBCN-WENR. Her suggestions for the school child's hot lunch are not only easy to follow, but give a little variety to the noon hour menu. These have been worked out scientifically to give the child just the right amount of nourishment. Too heavy a lunch makes the child sleepy and too light makes him too hungry to concentrate. The lunches, below, are well balanced.

Tomato Macaroni
Cabbage and Pineapple Salad
Bran Muffins
Grandma's Cookies—Milk

Tomato Macaroni

4 cups boiling water ter

1 teaspoon salt

1 cup macaroni

2 cups stewed tomatoes or 4 fresh diced tomatoes

1 tablespoon sugar

1 cup macaroni 1 tablespoon sugar ½ cup grated cheese 1 teaspoon salt ¾ cup buttered bread crumbs
Add salt to water, drop in macaroni and boil 30 minutes; drain. To macaroni add cheese, tomatoes, sugar and salt and stir thoroughly. Turn into casserole, add buttered bread crumbs and bake in a moderately hot oven (375 degrees) 30 minutes.

Casserole of Corn and Noodles
Lettuce Salad with Fruit Dressing
Toasted Whole Wheat Bread and Butter
Baked Apples and Milk

cooked noo-

ter dles
4 tablespoons grat- 2 cups milk
ed onion % cup bread crumbs
Add to corn, soft butter, onion, salt, pepper and noodles and stir thoroughly; add
milk, stir again and turn into casserole.
Cover with bread crumbs and bake in moderately hot oven (375 degrees) 30 minutes.

3
Baked Loaf or Patties
Buttered Thin Dry Toast
Sliced Oranges
Ginger Cookies—Milk

Baked Loaf or Patties
½ cup left-over cer- 1 cup cooked carrot

eal or peas or nuts eal or peas or nuts

1 egg 1 teaspoon salt or bran bread
1 teaspoon parsley
To the cereal add egg, salt, onion and
parsley. Push carrots or peas through
very fine sieve and mix well. If nuts are

very nne sieve and mix well. If nuts are used put through very finest chopper and mix thoroughly with other ingredients. Shape into loaf or patties. Bake loaf in moderate oven (350 degrees) 35 minutes; patties in moderately hot oven (375 degrees) 20 minutes.

#### **SHORT WAVES**

- By Marcella

(Continued from page 2)

(Continued from page 2)

In answer to your question about the Youngest Baritone, Julia, N. D. Cole of WHO writes the following: "Sorry we can't tell you who he is, but the young man's modesty prevents. He started his musical career to be a concert pianist and one night when he was to accompany Ye Olde Towne quartet, the baritone failed to appear and then for the first time Radio's Youngest Baritone discovered that he could sing. Oh, yes, I almost forgot to tell you that he is a preacher's son and last year was the youngest member of the Chicago 'Student Prince' company."

Mr. Mackin, publicity director of the new

Mr. Mackin, publicity director of the new Milwaukee Journal station, WTMJ, just happened to see my little note about Nate Caldwell in the last issue. He writes, "To Nathaniel Caldwell's many Chicago admirers who have become anxious about him since he turned up missing in the Windy City, we want to shout that he has struck a good town and is in good company. He has just taken up his new duties as program director of WTMJ." Thanks a lot, Mr. Mackin. I've been swamped with mail.

mail.

Imogene is going to be so disappointed when she hears about Cecil P. Underwood, that attractive announcer at KHQ, Spokane. He is married and he has two Radio stars in the family. You can see from his picture that he is just as dangerous to the sight as he is to the hearing. He is tall, slender, dark-haired and blue-eyed. The director of KHQ said he was glad to send me the information and the picture of C. P., because their staff had been snowed under with letters asking

snowed under with letters asking about the golden-voiced Cecil.

Was there ever a pair that could entwine their way around the hearts of Radio fans like Ford and Glenn? Every time they leave a station this department is swamped with mail asking where they have gone. Well, this time they hopped up to WJR, Detroit. Miss Indiana wants to know what they are like. Well, Glenn is short and plump and Ford is tall and has dark eyes and an attractive smile. They are both married, my dear, and I have heard their wives are much on the job. In fact, they take turns visiting the boys and keeping away attractive girl fans.

What deep secret would you like to know about your favorite broadcast star? Drop me a note, girls and boys, and I'll do my best to answer here. MARCELLA.

#### **WOMAN'S PROGRAM INDEX** (Daily Unless Indicated)

#### Household Economics, Women's Hour, Etc.

Eastern	Central	Mountain	Pacific
9:30	8:30	7:30	6:30
WWJ (374	.8m-800kc), To	onight's dinne	er.
10	9	8	, 7 .
hour les	70.1m-1110kc),	Modern Ho	usekeeping
WCSH (36	1.2m-830kc), e	ex Sat.	,,,,,,,
WIP (508,2	2m-590kc), Tu	es, Thurs, Sa	t, menu.
WLW (440.1	s work in the 1.2m-830kc), e 2m-590kc), Tue 9m-680kc), Mo 3.3m-700kc), W	on, wea, rri Voman's hour	
WTAG (51	6.9m-580kc), \	Wed, Fri.	•
10:30	9:30	8:30	7:30
WNAC (35	52.7m-850ke), ' .5m-640ke), M	Woman's club	
10:45	9:45	8:45	7:45
KDKA (33	3.1m-900kc), E	8:45 Radio Chef	7:45
WLS (344.	6m-870ke). 5.4m-560ke), V		
MEAR (4	10 191.5m-610kc).	Tues Thu	ra Battu
Crocker.	91.5III-010KC),	rues, ru	is, Delly
WSB (475,	9m-630kc).		
11:15	10:15 15.6m-950kc),	9:15	8:15
Tues, Th	15.6m-950kc),	Housekeeper	's period,
11:45	10:45	9:45	8:45
WMAQ (4	10:45 47.5m-670kc), 54.1m-1180kc).	Calumet hour	
12:30 KEWI (26)	11:30	10:30	9:30
KYA (309	7.7m-1120kc). 7.1m-970kc), S	Shopping serv	ice, Mon.
Fri.			
WMAK (5	55.6m-820kc), 45.1m-550kc),	Tues. Sat	ny,
12:45	11:45	10:45	9:45
WSM (340	11:45 0.7m-880ke).		
1	12	11	10
KGW (491 KIR (3487	.5m-610kc), 11 5m-860kc), Pri	ousehold help	s.
KPO (422,	.5m-610kc), II 6m-860kc), Pri 8m-710kc), Tu	es, Thurs,	
1:30	12:30	11:30	10:30
KEX (239,	9m-1250kc).	Totom Cooki	ng sahaal
WGY (379	05.9m-980kc), 0.5m-790kc), E	conomics talk	ng school.
2	1	12	11
KFRC (45	4m-660ke), Mo	n, Wed, Fri.	
WGHP (3)	m-940kc), Ho 19m-940kc), H	usewives not	ır.

## Eastern Central Mountain Pacific 2:05 11:0

"Aur	nt Sammy"	
Eastern Centr		Pacific
10:30 9:30	8:30	7:30
WCSH (361,2m-830	kc), WHO (535,4m	1-560KC). 7:50
10:50 9:50 WMC (516,9m-580k	) Mon Thurs	7:50
W W (516,9m-580K	c), Mon, Inurs.	8
11 10 WEAO (282.8m-106	) 9	7(01)
WMCA (370,2m-81)	01), WUS (394.51	11-/60RC).
WSB (475.9m-630k	URC).	
11:30 10:30k		8:30
WOS (394,5m-760kg	) 9:30	0:00
11:40 10:40	9:40	8:40
WAMD (243.8in-12	30ka)	0,40
· 12 11		9
KQV (352,7m-850k	c). Mon Wed. F	ri.
KTHS (384,4m-770	ike)	• • •
WAMD (226m-1330	)kc).	
WRVA (254.1m-11)	80kc). Wed	
KOW (296.9m-1010	(kc)	
1:45 12:45	11:45	10:45
WDAF (370,2m-810	(ke)	
2 1	12	11
KOIL (277.6m-1080	kc)	
WASH (256.3m-11)	70ke)	
3:30 2:30		12:30
WHK (265.3m-1130		
4 3	2	1
WBCN (283.3m-10		
WOC (352.7m-850k	.c)	4.50
4:30 3:30		1:30
KOIL (277.6m-1080	JKC)	
WOS (468.5m-640k 6:30 5:30		3:30
KMA (394.5m-760k		3:30

#### Fashions and Sewing

Eastern	Central	Mountain	Pacific
1:30	12:30	11:30	10:30
		Fashion hints,	Thurs,
1:35	12:35		10:35
KPO (422.	.3m-710kc), F.	ashion critic, F:	гi.
5	4	3	2
WOS (468	.5m-640kc), V	Ned.	
6:45	5:45		3:45
KOA (325.	9m-920kc), Fa	ashion review, T	ues.

#### Health and Beauty

10:15	Central 9:15	8:15	7:15
WTAM	(399.8m-750kc), 10	Tues.	8
11:15 KDKA	10 (447.5m-670ke), 1 10:15 (315.6m-950ke),	9:15	8:15
1:30	12:30 (241.8m-1240kc),	14:30	10:30
KFWI (	(267.7m-1120ke), 288.3m-1040ke),	Beauty hin	ts, Tues, Fri.
Fri. 2:30	1:30	12:30	11:30
3:40	48.6m-860kc), H 2:40 260.7m-1150kc),	1:40	12:40
10:40 KHI (4	9:40 05.2m-740kc), D	8:40 r. Phillip A	7:40 I. Lovell,
Thu 10:45 KNX (.	rs. <b>9:45</b> 336.9m-890kc), I	8:45 Pr Robert	7:45 T. Williams.
Tues.			-,

#### Gardening

		Gui	acining	
	Eastern 10:35	9:35		Pacific 7:35
,	1:20	12:20	), Garden bulletin, 11:20 'How and What to	10:20
	Wed. 1:30	12:30 (236m-1270ke)	11:30	10:30
	4:15	3:15	2:15 Home Gardening,	1:15 Mon.
	KHJ (	405.2m-740kc),	Garden talk.	2

#### News

Eastern	Central	Mountain	Pacific
10 WGN (305	9 ,9m-980kc)	8	7
10:30 WEBH (36	9:30 5.6m-820kg).	8:30	7:30
10:35	9:35 5.2m-740ke)	8:35	7:35
11:30	10:30	9:30	8:30
11:55	51.3m-650 <b>ke)</b> 10:55 5.9m-630ke)	9:55	8:55
12	11	10	9
12:45	6.9m-580kc) 11:45	10:45	9:45
1	.6m-1080kc) 12	11	10
2:30	.5m-610kc) 1:30	12:30	11:30
	1.8m-1240kc) 6.1m-1270kc)		45.40
WCAE (51	1:40 6,9m-580ke)	12:40	11:40
KGA (260.	2 7m=1150ke)	1	12
5	4	3	2
WGY (379 WHAS (46	1.3m-790kc)		
6:50	5:50 .6m-1080kc)	4:50	3:50
7	6	5	4
KFON (24 KOA (325.	1.8m-1240kc)		
WTAG (51	6.9m-580kc)		
7:15 WCSH (30	6:15 51,2m-830kc)	5:15	4:15
7:30	6:30	5:30	4:30
	7,5m-670kc) 1,2m-830kc)		
7:40	6:40 88.3m-1040kc)	5:40	4.40
8	7	6	5
KOA (325.	9m-920kc)	7	6
KOIN (319		•	•
WTAG (51	6.9m-580kc)		
<b>9:20</b> KOA (325.	8:30 9m-920kc)	7:20	6:20
KJR (348.6	5m-860ke)		_
10 WTAG (51	9 6.9m-580kc)	8	7
WTIC (47.	5.9m-630kc)	0.70	<b>5</b> .50
10:50 KFWB (30	9:50 61.2m-830ke)	8:50	7:50
11	10	9	8
WEBH (36	55.6m-820kc).		

## Reminiscences of Famous Sport Events

#### Sharkey's Secret Right Hand "Suspense"—How Benny Leonard Was Knocked out on His Feet by Lew Tendler

By Major J. Andrew White

THAT the public has some conception of what it means to broadcast the rapid-fire movements and action of two men contesting for a boxing championship direct from the ringside, and speaking with the rapidity which keeps pace with the fusillade of blows, has been many times evidenced to me in the query: "How times evidenced to me in the query: "How the world can you keep track of the sort of the sort of this anecdote is, that had so that Tendler would not know the damnage his blow had done. I said all this into the microphone; and when the bell struck for the end of the round, it made to focus the fight description.

Now, those are the things that the listening audience does not take into configuring up a terrific mental effort. The point of this anecdote is, that had so that Tendler would not know the damnage his blow had done. I said all this into the microphone; and when the bell struck for the end of the round, it made a lot of conversation and added a lot of color to the fight description.

Now, those are the things that the listening audience does not take into configuring up a terrific mental effort. The point of this anecdote is, that had so that Tendler would not know the damnage his blow had done. I said all this into the microphone; and when the bell struck for the end of the round, it made a lot of conversation and added a lot of color to the fight description.

Now, those are the things that the listening audience does not take into configuration. in the world can you keep track of the blows as fast as they come?"

Now, of course, that can be answered in one word and that word is "concentra-

In all honesty, however, I cannot say that that is all that is required, because there are many people capable of intense concentration over long periods who still would be unable to translate instantaneous thought into equally rapid verbal expression. But the main thing—I prefer to call it a "trick"—is that you must actually see what you're looking at.

Must See Accurately

Now, the average person does not see what he is looking at, or, if he does, he doesn't see it accurately. The history of the courts testify eloquently to this frailty of human nature in the matter of many thousands of cases on record where two or more eye witnesses will tell absolutely opposing versions of an occurrence at which they were present and presumably which they were present and presumably fully observant.

Sir Arthur Conan Doyle also illustrated Sir Arthur Conan Doyle also illustrated this very particularly in one of his stories where Sherlock Homes asked Doctor Watson how many steps led up to his apartment. Doctor Watson didn't know, nor would the average reader of this article know; and these two instances—which could be multiplied many times—merely indicate what I have said: that the average person does not observe accurately.

age person does not observe accurately.

In the past six years in which I have been broadcasting fights from the ringside, many thousands of people have expressed to me their reactions in living through the rapid-fire description in such a manner that they sat on the edge of their chairs with the feeling that they were actually present and seeing the entire fracas.

were actually present and seeing the entire fracas.

Surprised at Accuracy

Now that is one emotion, and I will deal with that presently; but before analyzing the purely automatic emotional response, it might be well to look at the other version of the listener's reactions. Very often I have heard from dyed-in-the-wool fans that they were astounded at the accuracy with which the blows were called and that they felt they knew right along who was winning the fight—long before the knockout came or the decision, as the case might be.

In questioning many people who have volunteered their appreciation, I have found, however, that none of them seemed to realize exactly what mental processes were necessary to bring about the effect. Take a typical instance, in the outcome of the Sharkey-Maloney Fight—the contest which made Sharkey important enough to take on Jack Dempsey.

As is always my preferred practice, I watched Sharkey go through his paces in the training workout and noticed that he wasn't using his right hand much. After he was through with his sparring partners, one afternoon I sat in the dressing room with him and talked about this and that, and then brought out this point which I had noticed about the right hand not being used. Sharkey was a little surprised that I had observed it, because none of the other ring critics had mentioned it to him; but he extended his right hand to me and said: "Feel it. It's in perfect shape now and on the night of the battle I am going to use that whip." Well, naturally, when I was at the ringside, knowing that this man was a superb boxer and noting carefully that he was not using his right hand, I felt that when he did something would happen. I let the audience sense this—of course I do not remember the exact words in which I expressed the thought—but I kept them in suspense, letting them know that for some reason or another Sharkey was withholding the use of his right. Well, that is nothing more or less than what iramatists use in the theatre to create 'situations." The Rad

tening audience does not take into consideration. They have their thrill over the fact that I actually called the knockout blow before the man went down, and the quick verification and the counting of color to the fight description.

Spectators Wissed Significance

Now the general public who were actually present in the arena did not realize what had happened—there were no

things; and that whereas I had been working at the fight, they had been enjoying the fight—a very vast difference.

#### Moving Pictures Confirm

Frankly, they were a little skeptical as o my accuracy and on the way home we

I mentioned earlier that I would deal with the matter of emotional response, that form of intense excitement which sways people who are really doing nothing more or less than listening to words tumbled out of a loud speaker.

which produced that effect—and it all bears upon the observations I have just made in the preceding paragraphs.

Take, for example, the battle of the Sesqui-Centennial at Philadelphia, in which Dempsey lost his championship to Tunney. The newspapers printed a verbatim transcription, taken down by high-speed shorthand reports, of exactly what I said, and this record established beyond dispute that in the very first round the listening public was told that Dempsey was not the fighter he had been and that he was "a hollow shell" of his former self. Now bear in mind, that the listener was tipped off to what could be expected in the first minute or two of actual fighting. That gave the Radio fan a mental picture of the invincible Dempsey not being up to his formerly astounding fighting form, and that there was a possibility that he would be licked. Round after round went by with this repetition that Tunney was away out in front and they were waiting minute after minute for something to happen which would crown a new world's champion. In consequence, when the judges and the referee rendered the final decision, it was an intensely dramatic moment.

\*\*Listeners Tipped Off\*\*

bought the morning newspapers to see what the sporting writers said about it. One of them agreed with me on the point that it was Dempsey's left hook which had dropped Sharkey; but none of them mentioned the damaging body blows. Later, the following day, in an evening newspaper, one sporting writer paralled in every detail the description of what had happened—about which I was so certain—and then the following evening the moving pictures were on exhibition. That

tain—and then the following evening the moving pictures were on exhibition. That settled the point once and for all. It was three rights to the body and a left hook to the face which knocked out Sharkey. Then my companions at the ringside were willing to concede that they had not seen those blows, although they were looking directly and intently at the fighters.

Yet it is just the difference between casual inspection and the intensive concentration which makes or mars a microphone description.

I mentioned earlier that I would deal

## I have yet to find anyone who realized that there was a method in describing it which produced that effect—and it all bears upon the observations I have just

#### Listeners Tipped Off

Listeners Tipped Off

Now, let's examine this method a little. Had it not been that the Radio fan was tipped off that Dempsey was on the downgrade, he would not have been in suspense during the succession of the rounds that followed. If he had been listening to a mere calling off of blows as they were struck, he might have reached the conclusion that it was a hotly contested battle—and it was that, unmistakably—a ripsnorting contest every minute. But the imporant point is that the listener knew Dempsey was merely trying. He was aggressively forcing and endeavoring every second to break through Tunney's defense—and it was all very good to look at, and very showy—but he simply wasn't able to damage the Fighting Marinc.

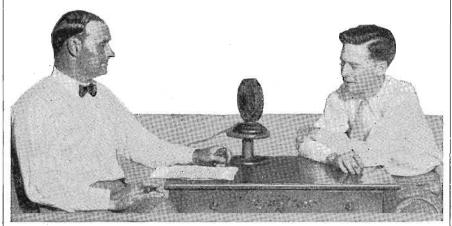
Knowing this, therefore, a structure had

able to damage the Fighting Marine.

Knowing this, therefore, a structure had been built for the listener very much as the dramatist builds his play. It was in effect the theme of Hamlet: that fate was overtaking a man. And if your audience is kept keyed up by the unfolding of the developments with an eventual outcome in sight, they have been "ear witnesses" to a play—a drama.

And, as I said before, I have yet to find the person who realizes that there is a technic in this description other than the rapid-fire translation of sight to thought to verbal expression. There is a lot more than that to it; and perhaps with these few guiding principles set down here for the first time, Radio fight fans in the future may realize in retrospect how much they get through the loud speaker that cannot be reduced to cold type on the printed page in the sport writer's newspaper story the next day.

#### RINGSIDE REPORTS BY RADIO SHOVES UP BOX OFFICE RECEIPTS SAYS TEX



Tex Rickard (at left) has become thoroughly converted to the idea that broadcasting a prize fight helps gate receipts. It was therefore no difficult proposition for Westbrook Pegler, clever sports writer for the Chicago Tribune (right), to inveigle Mr. Rickard to the WGN microphone to tell the folks about the big fight September 22.

out made it an intense dramatic description.

tion.

I called this merely a right to the jaw and not valued the blow, the listener would not have known whether it was a terrific finishing smash or just a grazing right jab that would do no particular damage—and there is where we get into the matter of detail. It is an extra task, but one certainly worth while performing, to value each blow as it is struck so that the listener has the opportunity of knowing just how good each wallop is. A fight, as you know, can be won or lost on a single blow, and the spotting of the particular blows that are doing damage and valuing those that are showy but harmless, is the whole difference between the listener considering that he has "seen" the fight or that he has listened to a report of a series of blows struck by each of the opponents. of the opponents.

#### Must Value Each Blow

If it was not for this quick evaluation of blows, the whole thing would resolve itself into a colorless report, such as comes over the ticker-tape.

Now, then, many people ask me how it is possible to do this. Well, the answer to that is very simple. It merely requires a knowledge of boxing and, coupled with that knowledge, a firm resolution that as a Radio descriptive broadcaster you are not there to enjoy the fight, but are present in line of duty to make it clear to the listeners exactly what is happening.

This can be applied in almost endless

listeners exactly what is happening.

This can be applied in almost endless detail. For instance, a listener has not thought perhaps of the importance of saying, "Dempsey's back is now against the ropes," instead of merely saying, "His back, etc." The vast difference is in saying that it is Dempsey's back and not just "his," which might mean the other fellow. Then, of course, there is the necessity of constantly keeping in mind that the public is entitled to know how both of the opponents are standing the gaff. A man can look very fresh and still be out on his feet; and the average fight fan doesn't know it, even if he were present at the ringside. at the ringside.

some reason or another Sharkey was winholding the use of his right. Well, that it most of his right. Well, that it most of his right what framatists use in the theatre to create situations." The Radio audience, while not conscious of it, was eagerly awaiting and Lew Tendler held at Boyle's Thirty hand.

Right Hand "Suspense"

Round after round went by and still he hadn't yet used it, but when I finally saw it come over, the words describing the plow tumbled out with great rapidity believe the birdies were probably slow tumbled out with great rapidity believe in the birdies were probably singing very prettily in Benny's head. I said so. Yet there was Leonard, talking to Tendler and apparently guying him, although the actual words were not audible the judies were great controversial points.

Well, as all who follow boxing know, it come over, the words describing the plow tumbled out with great rapidity believe and it alter and apparently guying him, although the actual words were not audible the judies and a man to retain the shade over a terrific hook, which landed flush on he body of the developments with are two fits and so on.

Then they asked me about the foul. I then they

cheers nor were there any jeers. To them apparently a good blow had been struck and apparently done no damage; and yet many months after when I was having luncheon with Tendler at his training quarters he told me that it was right then and there that he lost the fight. He knew he had delivered a terrific smash and that Benny Leonard should have dropped, but when he didn't drop and sassed him back, saying in effect, "Is that the hardest you can hit?" it took all the steam out of him, and from then on he thought he had met his master—with the inevitable result that he lost the decision and fight.

Now there is a lot of fun and a lot of

Now there is a lot of fun and a lot of satisfaction when you verify your impressions and find how accurately you sensed the situation, as evidenced in this particular case.

Let me give you another example how little the public is trained to what they are looking at.

On the occasion of the Dempsey-Sharkey fight, I undertook to introduce a new element in fight broadcasting by agreeing to appear at the New York studio of the Columbia Chain immediately after the end of the battle and answer any questions which the fight fans might care to ask.

which the fight fans might care to ask.

I was rushed from the stadium to the studio immediately at the conclusion of the hostilities and talked into the microphone for some thirty minutes as to what had actually happened when Dempsey knocked out Sharkey. In this description I was very emphatic and very positive that Dempsey had driven three hard rights to the body and followed these with a vicious left hook to the face, landing high on the cheekbone.

#### Dispute Final Blow

While I was talking the telephone was ringing constantly with questions from Radio fight fans that another announcer's version was to the effect that he had been dropped by a left to the body, and what did I know about that? My answer was a firm reiteration that it was three rights to the body and a final left hook to the face; that I was absolutely positive of it, and so on.

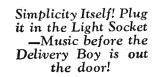
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## Finding and Fixing Troubles on Your Set

#### Simple Remedies For Sick Receivers

By James McDonald

To the great majority of us, a Radio receiver and its troubles are a puzzle, a great mystery, and any ills which may befall it are to be taken care of only by "one of those guys that know something about one of those things." That is only natural of course, since only a small percentage of our hundred and something odd centage of our hundred and something odd million people are connected with the Radio industry or have Radio as a hobby. But vice versa of course, such things as lay-outs and copy that are familiar things to the advertising man would be something of a problem to the average Radio repair-

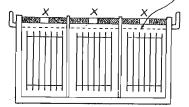
some reason, salesmen and sales For some reason, salesmen and sales managers seem to have the greatest horror of radio set trouble, with doctors a fair second and writers third. Most of these men have no difficulty wielding a wicked mashie, bidding a bridge hand intelligently or making a great many of the necessary adjustments on a car, but they certainly fight shy of a Radio.

A Friend in Need mechanic can.

#### A Friend in Need

Now let us presume that a friend has called up and said, "Jim, this blamed (?) thing won't peep. Be a good fellow and hop over and see what you can do about it.

LOOKING INTO A STORAGE BATTERY. THE WATER LEVELS CAN BE OBSERVED THRU THE FILLING HOLES "X" AND SHOULD BE KEPT AT



I've got something pretty nice here and we'll have one together afterward." At the first sentence we groan, and at the sec-ond sentence we say "Alright," and go

The first thing to be checked is the connecting wires from the batteries to the set and those connecting the batteries to each other. There is the greatest source of Radio grief known. Women will dust and move furniture, children will play and men will bump things trying to raise the window or reach the ash tray. On many of the sets of the past two seasons, the wires from the batteries are brought to the set in a cable which disappears right into the "innards." Not much chance of trouble at the set end.

With sets which have binding post ter-

at the set end.

With sets which have binding post terminals, to which the ends of the wires in the cable are connected, we carefully inspect each of the connections because in case of the cable having been jerked, the wire which went taut first may be loose. We reach right in with finger or pencil and touch each one as it may "look" connected but is only lying against the insulation part of the binding post.

Inspect Aerial and Ground
Presuming these are O. K., look at the aerial and ground wire connections. They come in from outside and may have been jerked. Are they O. K.? Alright, now we go to the other end of the cable where it joins the power supply. We will consider first the installation that has B batteries and a storage battery with trickle charger. The majority of sets are still working on this power source, regardless of the blandishments of B and A power unit manufacturers. There should be a solid Red wire coming out of the cable that belongs

on the Pos. post of the storage battery. A solid **Black** covered wire is intended to go to the Neg. post of the storage battery. Two wires connect the trickle charger to the storage battery if all is correct. Check

these.

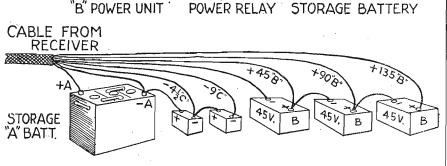
Another unit has begun to creep into installations called the Power Relay. If the set has one of these in the battery compartment, the "twisted pair" leading from the relay should go to a light socket. The plug on the end of this "twisted pair" may have been jerked from the socket in wall plate, lamp or "twin" socket. If this is found to have happened, it is probable that the storage battery has run down and it will only be necessary to insert the light plug and let the battery charge up. However, presuming this plug was in its place—there are two receptacles in the relay for plugs from the B eliminator and from the A battery. This set not having a B eliminator, check to see that the A battery plug

May Be Batteries

Now we go back to the batteries. It may seem that a great deal of time is being spent on the accessories, but that is correct because that is where 95 per cent of trouble is. The only thing that moves in the set proper is the condensers (in case of Kellogg, the variometers) and very seldom is the trouble in the set itself. A storage battery in the case of 6-volt, 201 type tubes, contains three cells or compartments, each of which has a cap over the filling hole in the top of each cell. These should be unscrewed and a good "look" taken to see how much water there is in the cells. In each one, it should by inch over the tops of the plates which can be easily seen within. Do not hold a match over the tops of the cells; get a light over to the battery, or vice versa.

If the water is low, put in enough distilled water to bring the level over the

TO +AND - ON RECEIVER B LEADS TO SET



posts for the battery leads, just as easy to check on.

Check All Wires

Aside from the Red and Black cable wires, there will be either three or four other wires for "B" connections. If three, they go to (1) minus B, (2) plus 45 and (3) plus 90. If there are four, they include these three and one for plus 135. The "minus B" goes to that end of one of the B batteries identified with a minus sign. The "plus 45" goes to the other end of this battery where the post has a plus sign, and from this same post a short wire should go to the minus terminal of the second B battery. The cable wire for "plus 90" goes to the other end of this second B block. If the cable has four B leads, there will be another B battery, and a short wire should connect the plus post of battery 2 just mentioned to minus of battery three, while our "plus 135" wire goes to the plus post of this third battery.

All this takes quite a while to read but only a few minutes to actually do. Occasionally, the cable has no minus B wire and a short wire connects "minus B" of the first B battery to the storage battery, and, due to movement of the batteries while the owner has been testing them, this wire is frequently found disconnected or loose. Of course, if any of these wires are found loose or disconnected, our search is over and the rest of the evening can be devoted to some other amusement, but, if the trouble has not been found, we carry on.

\*\*How About Tubes\*\*

#### How About Tubes

Next in line for inspection come the tubes. The knob labeled "filament" or "rheostat" or "battery" is turned up and down as we closely watch the tubes and, close to the bottom of the glass part of each, one can see whether each tube lights up or not. If all but one of them does dim and brighten, another should be borrowed from the "fellow across the hall" and tried in the socket. Still no results? Alright, now put back the original tube and replace each tube in turn with the borrowed tube which we know to be good. It is very probable that the set will suddenly come to life when one of the tubes is replaced by our newcomer and the answer is "a new tube."

The next step in this "looking for trou-

newcomer and the answer is "a new tube."

The next step in this "looking for trouble" is the speaker. If outside of the Radio set cabinet, the cord may have become jerked and one of the cord terminals pulled loose from the speaker or set. If the horn is adjustable, try turning the adjusting knob while set is "on"; if a cone, examine the lock screw at the point where it holds the driving rod to the tip of the cone.

is "in." A few relays have two binding posts for the battery leads, just as easy to check on.

Check All Wires
Aside from the Red and Black cable wires, there will be either three or four stream water will be all right.

stream water will be all right.

Now look at the trickle charger. The majority of these are of the electrolytic type; that is, they have a solution of water and something else, in a glass jar. The level at which the solution should be kept is indicated on the jar and, if liquid level is below this point, add distilled or pure water. If this solution gets down too far, the charger does not "do its stuff" and the battery runs down without getting replenished.

#### Does Tube Glow

If it's of the tube rectifying type, see if the tube glows with the set off and the "light juice" on. If no glow, the bulb has given its all and a new one is needed. If the charger is of the new dry, and also tubeless type, you cannot, at this point, tell whether it is O. K. All you can do is check everything else, then call the repairman or take the charger to town and have it overhauled. The same remarks just made for trickle chargers apply to the larger chargers whether liquid, tube or dry, and either 2 or 5 amperes.

Now for the B batteries. If they are

Now for the B batteries. If they are just beginning to wear out, it is highly probable that the set works O. K. for a few minutes when first turned on in the evening, then goes down in volume with a lot of crackling and hissing, then goes dead.

#### "Just One Life"

They have just one life to give for their owner and new ones must be purchased. If the set just plain don't work at all, it will be necessary to purchase of borrow a small cheap meter to test the B units. Each one should test around 45 to 46 when new, 40 to 42 after a few weeks of use, 36 to 38 after about two months and when they read anything less, should be thrown out. You may still get programs, but there will be slight distortion and some noise. This testing for voltage is to be done after the set has been running a little while, presuming it still runs at all.

while, presuming it still runs at all.

If you have storage B units such as Philco, Willard or Gould, it may be that they have used up the water supplied them. Take a good look at the water level and see that it is up to the proper height as indicated on the glass jars. Use distilled or pure water here, as for the storage A battery and charger.

If you have a storage B unit of the alkalitype, wipe off the crust of white powder

that may have formed around the tops of many of the test tubes, then examine care-fully the little nickel wires that connect the elements of each cell to those adjoin-

#### Effect of Corrosion

Effect of Corrosion

They may have eaten through. It won't hurt to take the time to unscrew the front plate of bakelite and see that the wires leading from certain cells to the various voltage binding posts are O. K. as, if any one of these is eaten through, or disconnected, it is just as serious as if one of the battery-to-set cable wires was off.

Which brings us to the C battery. This is, as a rule, what appears to be a decorated cardboard box about 4 inches long, inches high and an inch thick, with three clips or binding posts on one edge. In many sets this is placed in the compartment with the other batteries and there is a cable wire to be connected to the post on this battery marked minus 4½. A short wire is to connect the other end of this battery, marked "plus" over to the minus terminal of the storage "A" battery. If you have a power tube in the last socket of the set, and three B battery blocks, there will be two C batteries and two cable wires leading down for connection to this unit. wires leading down for connection to this

unit.

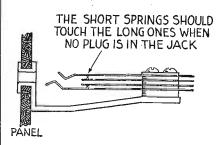
As a rule, again, these are marked with little aluminum tags stamped C4½ and C9. In this case, connect the plus end of one C battery to the minus of the big storage battery, connect the C4½ wire to the other end of this C battery and also connect this other (minus 4½) end of battery to plus of second C battery with a short wire. The other, or minus 4½, end of second C battery is to be connected to the cable wire marked minus C9.

C Battery Important

#### C Battery Important

C Battery Important

If you have a meter, test C batteries to see that they give 4½ volts each. Should you have no meter, stop and try to remember when you got that battery. If about 4 to 5 months ago, it is probably alright, but if it is 8 to 11 months old, or longer, get a new one, or two, as the case may be. The set will run even though it is run down, but the reproduction has been gradually going down in realism, so gradually that it is probable you have not noticed it. The change will be startling when you put in a new one, if the old one was pretty old. It may be that your C batteries are in the same case with the set itself, and secured in a clip. The same



rules apply as above, as there will be short wires leading over to it from the set.

If we seem to go from one part to another and then come back again to look at the first for something else, remember it is because we are looking for the trouble in the order in which it is likely to occur, and the point which we look for the second time does not occur as often as the point for which we looked the first time. This information is being given from the exinformation is being given from the experience of twenty years of growing up with Radio and, honestly, I'm not crazy.

#### Back to Tubes

with Radio and, honestly, I'm not crazy.

Back to Tubes

I put this in because we're going back to the tubes, even though we've been to them once. However, poor contact between tube pins and socket springs does not occur as often as run down batteries, so we examine tube pins after batteries. Take each tube out of its socket, one at a time so you do not get them mixed, and gently run a nail file across the bottom of each pin on the solder, and on the sides of the pin close to the bottom. You can do this by lightly scraping with a knife blade if you prefer. Anything to get each pin tip bright and shiny.

Before putting the tube back in its socket, reach in the socket and pull up the springs a little with the finger tip (being sure set is off); you can tell when you've really bent them a little. This is for flat springs. If side-of-pin is wiping springs, clean off the inside of each a little, with a knife blade tip. If the sockets are the new type that have only four holes visible, into which the pins fit, take a wooden match, break off the sulphur end, and dip the other in alcohol or cleaning fluid and run it in and out of each pin hole. If you have neither alky or cleaning fluid, use water, which will at least remove dust but not grease.

(Continued on page 19)



no more than the cost of a set of good "B" batteries! Throw your old-fashioned cells in the ash can. Hook up this Roll-O Eliminator and end the battery nuisance forever. It is a high-grade instrument—compact and durable. Puts new life in your set. Does away with changing and charging of batteries. Gives better reception, sharper tuning. Don't worry about "B" batteries any longer-install a Roll-O

pleasure of your life.

#### Used With All Sets

Works perfectly on any direct or alternating current, giving up to 90 volts and using full wave of the power supply. Hooks up in a

moment to any set up to six tubes. Constant voltage assures

#### Trickle Charger

Charges "A" or "B" batteries using ordinary house current. Hooked to your "A" battery gives complete "A" power unit. Send \$1.00 with order. Pay \$2.95, plus few cents postage, to postman when he delivers your charger C. O. D.

Use for ten days. If not more than satisfied, return it and get your money back.

#### more power. Completely Equipped. No Extras to Buy!

#### What Users Say!

"Marvelous!" "Unbelievable!" "What a Bargain." Every day we receive scores of letters from users of the amazing new Roll-O "B" Battery Eliminator praising this invention to the skies. It does all that any higher priced "B" Eliminator can do—and more!

I have received the Roll-O "B" Battery Eliminator and I am greatly pleased with it. We did not know we had a good radio till we hooked up your Eliminator. To me it is a 100% perfect Eliminator.

Detroit, Michigan.

I received the Eliminator and will say that its performance is all I could ask.

Waterman, Cal.

I have your "B" Eliminator and like it very much. So far it has given me very good service. Perth Amboy, N. J.

Recently received a "B" Eliminator. Works fine. Akron, Ohio.

The Eliminator is working perfectly. Louisville, Kv.

Your "B" Eliminator received and worked satisfactory. Please send me another one at once. Do you give a rencies for local counties? I can sell several of these here.

Zancsville, Obio.

Five minutes after you receive this Eliminator you can be enjoying its advantages.

Comes to you completely equipped, together with simple, easy instructions. Made to last years. Solidly built in beautifully finished metal case with genuine Bakelite top.

10 Days' Trial!

Now, for no more than the cost of good "B" batteries you can own a Roll-O Eliminator that will make batteries unnecessary forever. Pin a dollar bill to coupon and mail today. Postman will deliver Eliminator to you. Deposit \$6.95 (plus few cents postage) with him. Use Eliminator 10 days. If not delighted with results, return it within ten days and receive your money. Don't delay. Act quick to become one of the thousands of enthusiastic

## LS with this Coupon

Cincinnati, Ohio.

MAIL

the

COUPON

Gentlemen: I attach \$1.00. Please send Roll-O Eliminator to me C. O. D. for \$6.95 (plus a few cents postage) on special 10-day Trial Guarantee.

Name .	 
Address	 

Town..... State.....

ROLL-O KADIO

Dept A-200, Third & Sycamore Sts., Cincinnati, Ohio

www.americanradiohistory.com

## Readjusting Receivers for A. C. Operation

#### Can Use New Power Tubes in Old Sets

By Zeh Bouck

OFTEN receivers require but slight alterations to adapt them to operation with A. C. tubes. The accompanying diagram indicates the principles of the alteration. Sketch A of Figure 1 shows a conventional five-tube tuned r. f. receiver, stabilized and volume controlled by returning the r. f. grids through a potentiometer. Sketch B shows this circuit worked over for A. C. operation with Arcturus four prong tubes.

While the diagram speaks for itself, it is desirable to stress the salient points associated with the change. All grounds must be eliminated from the filament circuit. The filaments are wired in parallel. While it is desirable though not essential that the filament wiring be twisted or laced, the wires must be close together. All grid returns excepting from the power tube are grounded and the necessary biases (excepting detector) secured by connecting the bias potential to ground and the remaining side of the battery to the plus filament post or posts on the tube or tubes to be biased. While the diagram speaks for itself, it is

#### Apply Positive Bias

Apply Positive Bias

A positive bias of 4.5 to 9 volts is applied to the grid of the detector tube through a five megohm leak. (The negative post of the battery running to the cathode or plus filament post on the socket.) A grid condenser is used, in the conventional manner, detection still being effected by grid current rectification.

The power tube is biased in the usual way. 22.5 volts is applied to the grid with a plate voltage of 180.

It is impracticable to use a rheostat with A. C. tubes. Also any volume control, such as a potentiometer, which functions by varying the grid bias to the r. f. tubes, will introduce hum on certain adjustments.

Efficient control of regeneration and volume can be effected by placing a variable zero to 200,000 ohm resistor across one r. f. secondary.

#### Interchangeability

Should it be desirable for any reason to operate a receiver wired for Arcturus A. C. operation from batteries, ordinary tubes may be plugged into the sockets and the set so operated without making any change whatsoever.

Alternating current tubes fall into two general categories, the filament emitter, or "raw A. C." tube, and the filament heater type. The former tube is merely the conventional bulb with the filament designed with the special requirements of A. C. operation in mind and operated from a step-down transformer instead of a storage battery. The filaments are so designed that the fluctuating fields within the tube more or less counteract each other, while changes in the grid circuits are usually balanced out with a potentiometer. The filament heater type eliminates the filament altogether as an electron emitter, the filament acting as a heater for the cathode or emitter which surrounds the filament. Alternating current tubes fall into two

#### Two Filament Heater Types

Two Filament Heater Types

The filament heater type of tube is itself divisible into two classes, the low potential high current type and the high voltage low current design. The majority of tubes are of the former design. The high current tube has been hit upon by many designers with the idea of reducing the electro-static field about the filament which is proportional to the voltage drop across it. The low current tube exists through a process of reverse reasoning, namely that it is easier to shield against an electro-static field, of the nature encountered in the tube, than the electro-magnetic field. The shielding of the grid and plate is accomplished by means of the cathode which surrounds the filament heater. Morecroft and Turner have pointed out in the I. R. E. Proceedings for August, 1925, that a metallic sheath about a radiating wire (the arrangement of cathode and heater) offers no impediment whatever to the extension of an electro-magnetic field. However, experimental evidence seems to show that a certain amount of electro-static shielding is effected by such a device.

The Arcturus A. C. tubes fall in this last group. The filament heater operates from a potential of fifteen volts and consumes a

Good news for the listener who wants to convert his old-fashioned receiver into a modern A. C. (alternating current) tube set!

By reason of the laboratory research of one manufacturer, this conversion process has are of particular convenience to the enthusiast or service man altering receivers been made extremely simple.

Many receivers require only one or two attentions. The accompanying diagram shows a conventional five tube tuned R. F. receivers, stabilized and rotune controlled by returning the R. F. grids through a potentiometer, will look when worked over for A. C. operation with the four prong tubes of the Arcturus Radio Company.

Editor.

FTEN receivers require but slight

Current of .35 amperes. Aside from the electrical advantages of this design the volt amegers of the flament to set is anchored and giving it a sharp bend to the candle power with a filament of the usual carbon lamp consuming 3.5 watts are of particular convenience to the enthusiast or service man altering receivers for A. C. operation, due to the fact that the ordinary toy step-down transformers are not required. Also, it is quite practical to operate all heaters in parallel without the use of extra heavy leads, making it possible, in many instances, to utilize the original filament wiring of a receiver.

FTEN receivers require but slight

#### Standard Base

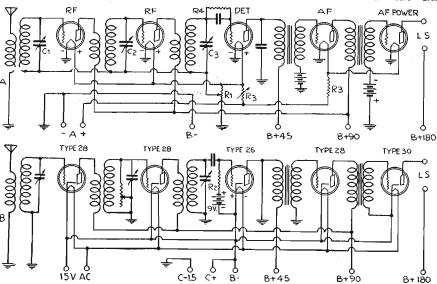
Standard Base

One side of the cathode is connected to the heater, adapting the tube to the standard four prong UX base, again limiting the number of changes which must be made for A. C. operation.

The Arctúrus tubes are made in three types, detector, amplifier and power tubes, all of which are of the heater design. Potentiometers are thereby eliminated from

#### Arcturus Tube Characteristics

	Type Detector	Volts	Fila- ment Amps. .35	Plate	d Grid	Am- plifi- cation Con- stant 10.5	Mu- tual Con- due- tance 1100	Plate Im- ped- ance 9500
Į	Detector	15	.35	45	+4-5 to +9	10.5	1100	9500
	R. f., a. Amplifi	f.15 er	.35	90	1.5	10.5	1100	9500
ı	Power tul	e.15	.35	180	-22.5	4.5	1650	2700



the circuits, and consistent grid and filament wiring may be used throughout the circuit.

The filament heater of the Arcturus tube is of carbon, operating at a temperature considerably lower than that of the usual carbon incandescent light, thereby insuring exceptionally long life to the tube. While the tubes on life test as yet show no indication of approaching the end of their usefulness, comparison of the

#### Freshman Power Amplifier

F ALL the recent mechanical and electrical developments of the past few years, perhaps none has undergone so many changes as Radio. Two years ago "volume" and "distance" were all the rage, and a set which could not regularly pull in distant programs with a volume sufficient to rattle the windows, was considered useless.

volume sufficient to rattle the windows, was considered useless.

Today the situation is radically different; Radio sets, it is true, still pull in distant stations better than ever, and with as great a volume, but the determining factor by which a set is judged is the quality of reproduction. This change in public taste is a logical change, and indicates more strongly than anything else the transition of Radio from the class of a novelty to the field of recognized legitimate entertainment. As a result of this demand for quality reproduction, programs from Radio stations have improved to a point where, with a good Radio set and loud speaker, the reproduction in quality and volume is equal to the actual efforts of the artists themselves. Two factors make possible the high quality reproduction: First, improved loud speakers, and second, improved vacuum tubes. The first improvement, loud speakers, may be applied to any set, no matter what the design, or how old, but with uncertain results. Unless the Radio set delivers quality to the speaker, the results will be unsatisfactory. The second improvement, vacuum tubes, may only be used to advantage in sets especially designed for them, and even here, full advantage is not taken of the improved tubes. To take full advantage of the improvements in speaker and tubes, both must be used together.

Recognizing these facts the Charles Freshman Company have developed, and

Recognizing these facts the Charles Freshman Company have developed, and are now offering for sale a combination high quality amplifier and loud speaker housed in a small mahogany table. The combination called the Freshman "Power Speaker" is designed for use with any type of Radio set having one stage of audio frequency amplification or the equivalent. The amplifier in the Power Speaker takes the place of the second stage of audio fre-

quency in the Radio set, thus eliminating the source of 90% of the distortion. The amplifier requires no batteries, it obtains its power directly from the 110 volt 60 cycle house lighting system. As an amplifier tube the CX 210 is used, as a rectifier the CX 216. Full voltage for proper amplification is supplied the power tube, the result being clear, pure reproduction at any volume. any volume

The cone speaker supplied with the Power Speaker is of the diaphragm type, the unit being one capable of properly handling the great volume and fine quality available from the amplifier. In brief, the Power Speaker is a complete audio frequency amplifier unit and reproducer, capable of the best in quality reproduction at any volume.

#### HOW TO FIND TROUBLE

(Continued from page 17)

(Continued from page 17)

Covered All Sources

We have now covered all the sources of trouble which occur in the ordinary run of things. This next one is identified by the following symptoms and has caused the novice a great deal of trouble. The set works great with speaker plugged into the "first stage" jack but gives no program when speaker is plugged into the "second stage" jack, ordinarily used for loud speaker reproduction. The difficulty lies in the "first stage" jack.

When examined, this will be found to

the "first stage" jack.

When examined, this will be found to consist of four parallel springs, the outer two being somewhat longer and so bent that the speaker plug makes contact with them when pushed in. When the speaker plug is pulled out to be placed in the "second stage" jack, these long springs are expected to bend back to normal and make contact with the shorter springs between them.

After a while however they lose their

tact with the next spring when no plug is in.

Fractured Pig-Tail

Another "tough" one is a broken, what we call, "pig-tail." The pig-tail is a little spiral of flat copper strip perhaps an eighth of an inch wide at the rear end of the condenser shaft. Maybe your condensers do not have these, but rely on contact for the movable plates through the rear bearing. However, if each condenser does have one of these, its inner end is supposed to be anchored to the shaft and the outer end to a pin in the rear or back plate of the condenser.

Incidentally for those not familiar with Radio parts, the condensers are those units in which about nine thin, semi-circular plates are secured parallel to each other and about a sixteenth of an inch apart, and about eight others, also secured together on a shaft, revolve into and out of the first group when you turn the shaft. At any rate, gently lift the outer coil of the spiral of the pig-tail if you have them to see that the inner end is still anchored to the condenser shaft.

Brower Unit

to see that the inner end is still anchored to the condenser shaft.

\*\*B Power Unit\*\*

We took up before, the matter of installations using B batteries and storage A battery with trickle charger. Now we'll consider some with different combinations. First, there is a B power unit, giving B current from the light socket. The type most in use has a large jar of liquid, similar to a trickle charger, for changing the alternating house lighting current to direct current suitable for use. The water in this type must be kept up at the indicated level. So, we check that. Others, also very well distributed, have several small jars (4 or 8) and, here again, the water must be kept up.

The only thing which can "go" in the Raytheon type of B power is the Raytheon tube itself and this is not likely to go suddenly but will, after about a year's use, lose its high efficiency and the volume may fall off noticeably. This can only be checked with what is called a "high resistance voltmeter." This instrument is not likely to be around the average set owner's, as "it costs \$28 to \$30. The local Radio dealer, or severely bitten Radio fan, should possess one and you may borrow it. You should get 45, 90, 135 and 180 on the various taps of the eliminator.

\*Fool-Proof Tubes\*\*

The B power supplies which use R. C. A.

rou should get 45, 90, 135 and 180 on the various taps of the eliminator.

Fool-Proof Tubes

The B power supplies which use R. C. A. type rectifying tubes can be readily checked, as these tubes, either 216-B or 213, have a filament which lights up when the set is "on." These B powers are pretty fool-proof and have no moving parts, so rarely get out of order.

The great majority of "A" power supplies on the market are nothing more than a storage battery, trickle charger and, sometimes, a relay all in one case. The care of these is, for the various items separately, as given above. A new type has recently gotten into distribution which is a true "A" eliminator, and consists of a rectifying section, a brute of a filter to take out hum, and which feeds directly to the tubes. There is no battery in this combination at all. If your set has this, see that you have filled the rectifying jar with distilled water and the filter part also, but this latter only occasionally. The rectifying jar will need a glass or so of water every few weeks, depending upon how much one uses the receiver and the number of tubes drawing current through.

Beware of Receiver

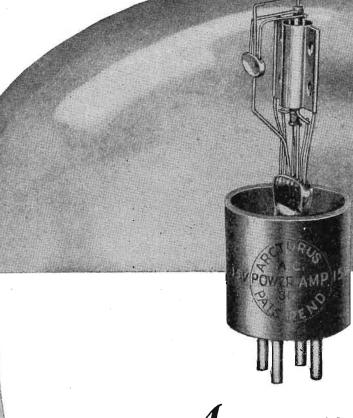
I do not think it wise to go into trouble

how much one uses the receiver and the number of tubes drawing current through.

Beware of Receiver

I do not think it wise to go into trouble shooting in the receiver itself. This is something that mighty few repairmen are able to take care of intelligently, particularly on Radiolas, and if every other possible place for trouble has been gone over carefully, the only recourse is to take it back to the dealer and have him send the set to the factory branch or main plant for inspection. A number of manufacturers put a stipulation in the guarantee that the inside of the set must not have been tampered with or the free repair work paragraph "don't go." Some have so put in the screws so that you would have to break a seal to open the set and then the guarantee is certainly "off."

We seem to have covered everything. Rheostats seldom get out of order; neither do coils or "On-Off" switches. Condenser trouble you couldn't fix if you did find it. If we have overlooked some feature that you and your friends have found causing you trouble and it hasn't been covered here, I'd appreciate your dropping me a line and telling me about it. But, do not send in any sets to be "trouble shot"; your local dealers and Radio doctors are there for that purpose—and I'm not in the business.



## Announcing

## THE A.C. RADIO TUBE

FOR YOUR PRESENT SET

## ARCTURUS A. C. TUBES

DETECTOR - AMPLIFIER - POWER

Four Prongs—Fits Present Sockets—For all D. C. Sets

## BETTER RECEPTION MORE RELIABLE MORE CONVENIENT LESS EXPENSIVE

Now you can have unfailing quality reception, the convenience and reliability of A. C. Tubes, with but a few simple changes, in any D. C. Set.

#### Arcturize Your Present Set

No matter what set you now own it will pay you to get complete information about this latest development in radio. You will find added satisfaction in the perfect reception you get with Arcturus A. C. Tubes.

Write today for complete information mentioning make and model of your present set.

ARCTURUS RADIO COMPANY, Inc.

259 Sherman Avenue, Newark, N. J.

## How to Build New AC-Super Receiver

#### Part II—Full Instructions with Templates

By John G. Ryan

In the first half of this article, published last month, we took up the AC tubes, some of their characteristics and the chief problem in the way of their use in the super-heterodyne receiver. At the end of that first article, I asked that those really interested in this development of Radio dig up a discussion of the super and get themselves fully acquainted with the workings of this circuit before going into the adapting of this Rolls-Royce system to the new tubes. I sincerely hope you have done so, since space does not permit of discussion of the "how and why" of the super-het circuit here.

As pointed out, the problem was that of securing accurate control of the grid bias on the tubes, particularly those in the intermediate amplifier stages of the system. To briefly recall this to mind, a method was sown whereby the plate voltage was varied in relation to fixed grid and filament voltages; then, a second idea was outlined wherein the filament or heater voltage was changed against set grid and plate potentials. Which brings us to the method finally used.

Smith Furnished Idea

#### Smith Furnished Idea

Smith Furnished Idea

For the original germ of the idea for getting this practical control we are indebted to Mr. Smith, engineer of Carter Radio Co., who certainly "knows his resistances" and his Ohm's law. In previous circuits it has been customary to connect filament circuit to B minus and get the grid negative in relation to both with a C battery or potentiometer. If you will study figure 12, which is the circuit drawing for the finished receiver, you will note that all grids go to B minus and that the cathodes (equivalent here to filaments) are isolated by a variable resistance and made more or less positive in relation to the grids and B minus.

This is accomplished for the following

here to filaments) are isolated by a variable resistance and made more or less positive in relation to the grids and B minus.

This is accomplished for the following reasons. There is a current flowing from the plate to the cathode in each tube, the plate being positive in relation to the cathode. This current is endeavoring to get back to B minus. If therefore, we insert the variable resistance shown, between a cathode and B minus, we can get a "voltage drop" across the resistance and make the cathode positive to the grid, or the grid negative to the cathode, whichever way you want to consider it.

With 90 volts applied to the plate of a Kellog tube, and a grid bias used of 4.5 volts, there we approximately 4.5 milliamperes of a ent flowing in the plate circuit. To demine the resistance necessary, we apply Ohm's Law in the form that Besist nee equals Voltage divided by Current. We divide 4.5, the voltage wanted, by .0.0 ampere (4.5 milliamperes), which is the grid his the answer is 1,000, the value in ohms required to get those conditions. That is for one tube; when there are three, as in the intermediate stages, we divide .009 (3 milliamps per tube with 45 volts on the plates) into 3.0, the grid bias voltage wanted (approvimate), and get 333 as the average value of resistance needed.

Natural Balanced Operation anted and the answer is 1,000, the value of homs required to get those conditions. That is for one tube; when there are three, is in the intermediate stages, we divide the plates) into 3.0, the grid bias of the plates) into 3.0, the grid bias of the plates) into 3.0, the grid bias as the average value of resistance deeded.

Natural Balanced Operation

A natural balance is found in operation,

"B" milliamps, the less "C" volts—Ohm's Law: Voltage equal Resistance multiplied by Current.

Now, getting to the parts used in the set itself. I have chosen St. James super-het kit because, from personal experience, I have found it as selective as any similar group of parts on the market and more so than most of them. The wave length chosen on which to pass signals through the intermediate stages is excellent and signals are found, on the oscillator dial, at two places over only half the range covered by the loop dial, and at one place for the other half. The amplification or voltage gain through these intermediate transformers is high for air core transformers

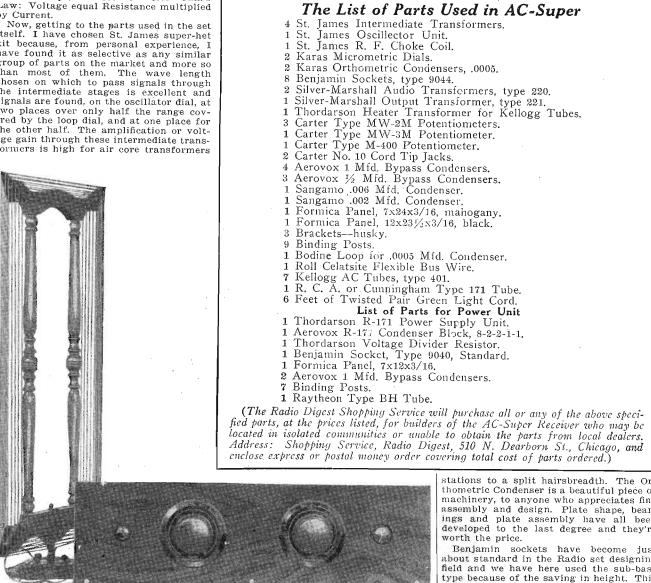


Figure 7-Front view PHOTO. "Controls are reduced to the minimum possible for a super-heterodyne"



stations to a split hairsbreadth. The Orthometric Condenser is a beautiful piece of machinery, to anyone who appreciates fine assembly and design. Plate shape, bearings and plate assembly have all been developed to the last degree and they're worth the price.

worth the price.

Benjamin sockets have become just about standard in the Radio set designing field and we have here used the sub-base type because of the saving in height. This factor had to be considered most carefully due to the height of the Kellogg tube and the clip surmounting it. I wanted the base, or sub-base, as you wish, to be about an

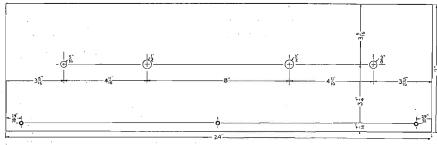


Figure 9-Sub base drilling DRAWING. "If drilled carefully, assembly takes but 20 minutes"

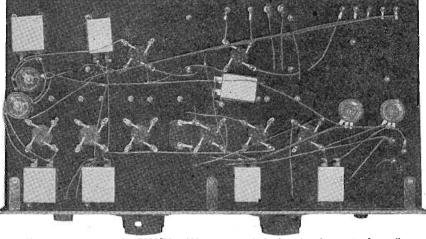


Figure 11-Bottom view PHOTO. "Not a great deal of wiring for an 8-tube set"

#### Select Karas Dials

inch above the bottm of the front panel, Select Karas Dials
On Karas dials and variable condensers
I have expounded in Radio Digest before.
Granting these dials are not as attractive as the drum type, judged by this year's standards, they still have a precision tuning quality I have found unapproached in any other type dial or tuning control. The action is remarkably smooth and velvety and, on the vernier disc one can "roll into" inch above the bottm of the front panel, and Benjamin sub-base sockets made this design possible. As to my choice of Kellogg tubes, some of the reasons for this were given in the first article but another important one is ruggedness. Their toughness has been seen demonstrated by dropping the tube, cap downwards, on cement and the internal characteristics remained unchanged. The energy amplification in

Figure 10-Top view PHOTO. "From this you can easily place the parts"

where all these values reach their proper amount, since Grid Voltage controls plate production is natural, well-rounded and Current and, in this system, Plate Current "full." It's hard to put analysis of enjoy-governs Grid Voltage. The more "C" volts, the less "B" milliamperes and, the less production into words but the above phrasing is pretty close.

these tubes is consistently high as there is a heavy electron emission and ample is a heavy e plate surface.

#### Prefers Thordarson Power

Thordarson power

Thordarson power supply units "get the call," as no other maker seems able to approach the prices and maintain their quality. Thordarson was making transmitting transformers when I was a youngster and their parts have always had an enviable reputation for satisfactory performance. The choice of Carter parts was natural; they have an engineered line of resistance units unapproached in completeness. I say engineered because Carter units are durable, compact and designed so they can be made in quantity for low price yet hold up under load and dissipate heat thoroughly.

The Bodine loop aerial I can warmly

thoroughly.

The Bodine loop aerial I can warmly recommend for use with this receiver. It is attractive in appearance, unusual in a loop, is correctly wound for minimum inter-turn capacity and covers the broadcast range of wavelengths with the Karas .0005 mfd. condenser just about right.

#### Simple Front Panel

Simple Front Panel

I want to call particular attention to the front panel layout which contains about the minimum of controls, of advantage when a receiver is being tuned by a woman. The two large dials, see figure 7, are for tuning, as found on all supers. The small knob to the left is the loop circuit regeneration condenser, controlling both sensitivity and selectivity; the right hand knob is the grid bias variable resistor for the three intermediate stages. That's all there is on the panel; there isn't any more. Carter has just brought out a front panel 110 volt switch for turning the lighting current on and off to the set, but 1 didn't hear of it until too late for this receiver. It is easy enough to turn the power off at the is easy enough to turn the power off at the

light socket.

It would have been desirable, but was found impractical, to include the B supply as part of the receiver proper. Due, however, to the necessity for a heater transformer and the size of Silver-Marshall audio units, the B supply must be separate. Since most Radio receivers are placed in the console type of cabinet, having the B power separate is not such a hardship and it goes readily into the "battery compartment." A 4-wire cable and a "twisted pair" connect it to the receiver, the "twisted pair" being used to supply current to the type 171 second audio stage tube, and these wires should preferably be separate from the B current cable.

Not for Novices

#### Not for Novices

Not for Novices

Please understand, this is not a set for the beginner. If you have built a set or two before, so you can accurately read diagrams and drill holes, this is the most interesting receiver brought out in any Radio paper for many months. If it would be your first set, I have an idea you'd run into much grief of a type we would be unable to help you on through correspondence. Not that this set is hard to build; just the opposite. But, it must be built right, as trouble would be hard to locate to the inexperienced. As a matter of fact, the wires are shorter and fewer than in all but one of the many supers I've built.

than in all but one of the many supers I've built.

Considering now, the top view photograph, figure 10, most of the units are clearly shown but the variable resistances will need identification. Two are at the left and midway back. That at the extreme left is for the first detector and labelled Q in the circuit diagram, figure 12. Next to it, to the right, is unit P for the oscillator. Going now to the right side of the sub-base we find that in front to be unit S for the second detector and that behind it unit T for the first audio stage. Resistance Q is a 2,000-ohm Carter MW-2M, which will operate with the slider about half way around. It should be understood that once these four baseboard resistances are set, they are left talone, just as you would connect a C battery and forget it.

For Steady Oscillation

#### For Steady Oscillation

For Steady Oscillation

Resistance P is also an MW-2M which, with 90 volts on the oscillator plate, will function about three-quarters of the way around as a little more than 4.5 grid bias volts is wanted to give steady oscillation on all wave lengths. Resistance R on the front panel, is an M-400 potentiometer and, since the second detector operates on 45 volts plate potential, the resistance S is a 3,000-ohm Carter MW-3M. The first audio stage gets another MW-2M, identified as T. If two of the resistors shown in the bottom view photograph, figure 11, do not agree in appearance with the units you get on my specifications, it is because the MW units were not decided on for all positions until after this view was taken. The binding posts, reading from left to right, in figure 10 and found in the rear left corner, are B minus, B plus 45, B plus 90 and B plus power. The speaker cord tip jacks are behind the 221 output transformer and the filament binding posts for the 171 tube are next across the rear edge, to the right. The socket which they are behind is for the second audio stage, while the socket further to the right, between the two 220 transformers, is the first audio stage. Going now to the front row of equipment, left to right, the first socket is the first detector, next is the first intermediate amplifier, third is the

oscillator, fourth is the second intermediate, while fifth is the third intermediate. The last socket to right is the second detector.

#### Use Flat Head Screw

In the baseboard drilling layout, figure 9, you will note a hole in the front right corner, marked to be countersunk from the under side. This is done so that a flat head machine screw can come up through from the bottom into the .002 mfd. Sangamo condenser in front of the scrowled detector and used in the plate circuit of that tube. On the under side, an Aerovox bypass condenser must lie flat against the under side of sub-base and covering the screw head. The oscillator transformer, which I believe Mr. St. James calls an "oscillector," is so placed that terminal 1 is at the left and 2, 3 and 4 proceed across to right, with terminal 5 at the right end.

In the drawing of the circuit, figure 12, I have not put in the complete wiring of

the heater circuits, as it would merely confuse things. The heater transformer is shown below the first detector tube with wires leading to the heater coil in that tube, but the connections to other tubes consist merely in running the piece of "twisted pair" across the top of each tube and its clip, with the insulation removed above each tube, and the wires soldered to the terminals on the clips. My heater cord leads from the transformer forward over the first detector tube, across to the right and, from the second detector, back and slightly to the left to the first audio tube, between the 220's.

Study Top View

The top view photo of the Thordarson B (and C) supply is shown in figure 13. This should be sufficient for its assembly, the base being 7 inches wide by 12 inches deep. The Aerovox condenser block, when placed as shown, makes connection easy, as the filter wires are in proper order for connection to the top of the

Trickle charge or full-rate charge-You get either or both

with

## Westinghouse Rectigon **Battery Charger**

YOUR battery needs two kinds of charging!

Under ordinary conditions, a low-rate charge, "trickled in" during the hours that the set is idle, will keep the battery full of pep. Then, for occasions when prolonged use of the set drains more power than trickle chargers can replace, you need a high-rate charge. The West-

inghouse Rectigon gives you both kinds of charging. Rectigon charges at a high rate and at a low rate—and it charges wet "B" as well as automobile batteries.

Rectigon is a Westinghouse product—and you know Westinghouse knows radio. Back in 1920, the first program ever broadcast came from radio sta-Now tion KDKA. Rectigon is safeuses no acids or chemicals. Long-lived, with no moving parts to break or wear out. Does no harm if you tune in while charging, nor if the light

company turns off the power while Rectigon is in the circuit. Get away from charging station expense with Rectigon Home Charger. At your dealer's, now \$14.00.

WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, EAST PITTSBURGH, PA. Offices in All Principal Cities , Representatives Everywhere Tune in with KDKA-KYW-WBZ

For trickle charging only—the longlived little Rectox. No guesswork, no acids or chemicals, no trouble. Leave Rectox permanently on charge and re-place during "silent hours" the power used during average "operating hours."
Two rates of charge—½ ampere and 34 ampere. At most dealers', \$11.50.



See the Westinghouse exhibit of Rectigons, Radio Instru-ments, and Micarta Radio Panels at the Sixth Annual Radio Show, Coliseum, Chicago, October 10th to 16th, inclusive: Booth I,



is between terminal 1 of the second audio transformer and the cathode of the first audio tube.

#### Neat Panel Holes

Neat Panel Holes

To cut the 1-inch holes in the sub-base I would advise the 1-inch Stevens panel cutter. This "puts them through" in no time and, if panel is firmly clamped to a board when drilling, puts them through cleanly. The holes indicated for securing the front panel to sub-base are correct for husky little iron brackets wherein the hole in each side of the right angle is ½ inch from the outside of the bend. Should you prefer brackets of a different type or size (but be sure they're husky), calculate the drilling holes so that the underside of the sub-base is 1 inch up from the bottom edge of the front panel. In wiring, I would suggest that you put in the "key" wire, or B minus wire, first, and attach the numerous leads to it. This should simplify things a great deal. This wire is indicated in the circuit diagram as extending from U to V. Changing tubes around to get the best combination will, as usual in supers, help a great deal, but I want to suggest that, in removing clips from tube caps, you insert a pencil's blunt end through the clip hole onto the cap, to hold the tube down, that there will be no strain on the cement holding the tube cap to the glass when you pull off the clip.

Now, please remember, I am presenting this as a set for the experimenter and

you pull off the clip.

Now, please remember, I am presenting this as a set for the experimenter and set builder, and don't write in if the set does not perform 100 per cent on first hooking it up. The cathode resistance values given should be correct for 95 per cent of the tubes used. There may be slight variations in tubes and in your wiring methods that will make necessary slightly higher grid voltages than average in certain sockets. It is probable that by changing tubes around you can find an arrangement where every tube gets just the right values of all currents to perform just right.

Get "Cluck-Cluck"

#### Get "Cluck-Cluck"

You should be able to put the first detector into oscillation by turning the midget condenser to the right, and operate just to the left of the click point. You should be able to get the "cluck-cluck"

sary, you can put 130 volts on your oscillator by taking it off of plus 90 and putting in a plus 135 binding post on the rear edge of set for it, and connecting with the 135 volt post on the B power. Sometimes you run into cases where such measures may be necessary, in the first

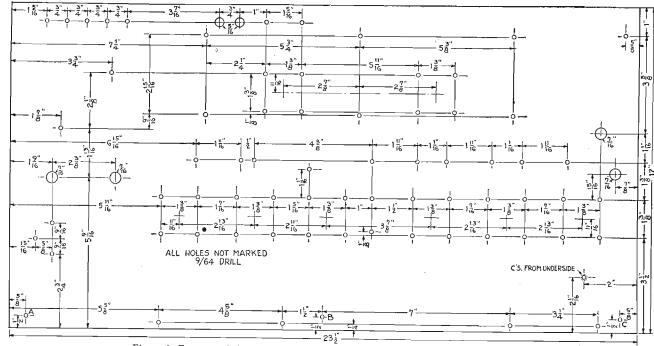


Figure 8-Front panel drilling DRAWING. "Seven holes are all that need be drilled'

case for clarity, and in the second to secure oscillation over the entire range.

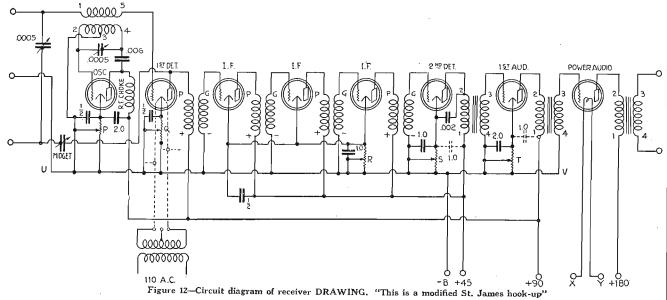
\*\*Control Difficulties\*\*

If you cannot get absolute control over the sensitivity of every tube, even with the cathode resistor slider clear over at the B minus end of strip, a larger value of resistor is needed. Just why such a condition comes about is not always clear, but the added expense of an extra unit (\$0.75 or \$1.25) must be taken as "just"

thing now, learn the basic circuit and its characteristics. When you yourself discover points that can be changed for the better, or when some writer comes out with them, you'll know what it's all about, and that is everything in Radio.

Thin B Eliminator

As an aid to unobtrusive beauty required in the modern Radio receiver the Clover-



when the moistened finger is touched to the stator terminal of the oscillator variable condenser and at any setting of that condenser over its entire range. The second detector should be adjusted for clarity, as it is a potential point for distortion. The first audio stage is not critical, but the further you can operate the slider from the cathode end of the resistance the better, as less B current is drawn. Incidentally, the B power unit uses a Raytheon BH, preferably one of the new ones that can supply 125 mils, as

#### ELIMINATE 17 STATIONS

(Continued from page 5)

WHBD, Bellefontaine (O.) Chamber of Commerce, 100 watts, 1,350 kilocycles, 221.1 meters.

WKBM, Newburgh, N. Y., John W. Jones, 100 watts, 1,440 kilocycles, 208.2 meters.

WKBU, New Castle, Pa. (portable), Harry K. Armstrong, 50 watts, 1,470 kilo-cycles, 204 meters.

WTAZ, Lambertville, N. J., Thomas McGuire, 15 watts, 1,360 kilocycles, 220.4 meters.

WREO, Lansing, Mich., Reo Motor Car company, 500 watts, 1,300 kilocycles, 230.6 meters.

WTHO, Detroit, Mich., company, 250 watts, 1,370 kilocycles, 218.8 meters.

This reduces the total number of sur-This reduces the total number of surviving broadcasters to 670, and verifies the prediction of commissioners at the beginning of their labors that the peak number of 732 stations would automatically slump as the result of consolidations and lack of financial support. Probably no station in the list will be missed with greater regret than that of WREO, Lansing, Mich., which has a record of good service and fine programs. Only ten new stations have been granted construction permits.

#### Expect Secret Radiophone

NEW YORK.—With the completion of the new transatlantic Radio telephone station at Cupar, Scotland, it is believed by telephone officials here that a secret Radio telephone system will be established on a practical basis. This objective has been sought diligently by engineers on both sides of the Atlantic. Technicians of the British Post Office believe they have now

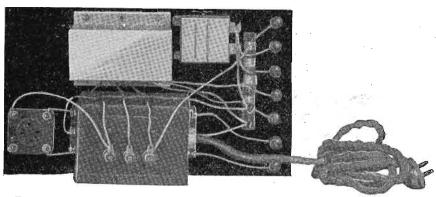
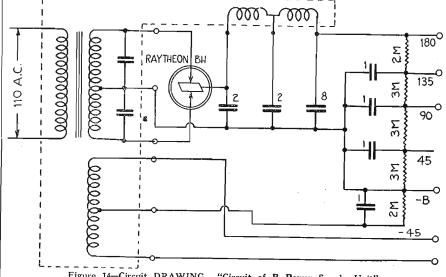


Figure 13-Power supply PHOTO. "Thordarson R-171 Power Unit fits our needs perfectly"



there will be less drop in voltage below 90 and 45.

You can raise the second detector B voltage by shifting its plate return wire (transformer terminal 1) from the plus 45 binding post to plus 90 and, if neces
designers of the 201A type tube did, a world of power is let loose that makes the reproduction round, full and mellow, even on distance.

Like the famous Flewelling, Roberts and Infradyne circuits that started in one form 45 binding post to plus 90 and, if neces-

### Radio Digest livistrated

Reg. U. S. Pat. Off. & Dom. of Canada

Published by the RADIO DIGEST PUBLISHING CO.,
(Incorporated)
510 North Dearborn Street
Chicago, Illinois Telephone: Superior 7323

E. C. RAYNER, Publisher

Eastern Office, Park-Lexington Building, 247 Park Ave. New York. Telephone: Ashland 8144

Member of the Audit Bureau of Circulations

241

PUBLISHED MONTHLY

SUBSCRIPTION RATES
Yearly in U. S. and Possessions and Canada, \$3.00
Foreign Postage, \$1.00 additional. Single copies, 25 cents

Vol. XXII

October, 1927

#### Time to Act, Mr. President

RADIO—man's latest gift from the gods—is another conveyor of thought. The personal and public spoken word, the quicker printed and wired message, the moving picture are now augmented by broadcasting. Freedom of speech is its right by heritage

mented by broadcasting. Freedom of speech is its right by heritage.

No federal regulatory authority controls tongues or words, or limits the manufacture or use of printing presses, ink, paper, moving picture machines or films, telegraph poles or wires. The only governmental restriction on speech, the movies and the press are those of decency. Supervision of rates on wires gives some semblance of federal control. With broadcasting it is different. This new form is placed in the hands of a federal commission—composed of at least three inexperienced men, two of whom are young and unknown—all hand picked by the interests.

The foregoing explains to the uninitiated the reasons

The foregoing explains to the uninitiated the reasons for the favoritism shown and the politics played in the recent allocation of wave lengths and power. Even a cursory examination of the new assignments will convince the most skeptic that there is a well defined plan for controlling broadcasting. This ambitious plan for controlling broadcasting. This ambitious program has been plotted by selfish and unscrupulous men in New York who are drunk with sudden prominence and lusting for power.

If the air is to be free, the President will have to act as he did with the Federal Reserve Board before permanent licenses are granted

manent licenses are granted.

#### Natural Monopolists, John!

Radio Digest agrees with John Shepard, III, of WNAC, Boston, regarding the broadcast of the Tun-

WNAC, Boston, regarding the broadcast of the Tunney-Dempsey fight:

"The National Broadcasting Company prevented stations on the Columbia Broadcasting System (or which station WNAC is one) from broadcasting the Tunney-Dempsey battle direct from the ringside.

"It seems to me that this is a most short-sighted policy, and one tending to build ill will rather than good will for this company and the sponsors of the fight program. The National Broadcasting Company, being controlled by corporations manufacturing and marketing Radio sets and equipment, should be interested in having the best possible programs reach the listening public.

ested in having the best possible programs reach the listening public.

"In the broadcasting of a world's championship fight the announcer is practically 100 per cent of the broadcast. In preventing the Columbia System from broadcasting the bout, the listeners were deprived of hearing Major J. Andrew White's description, and if they listened to the bout at all, were compelled to listen to Graham McNamee.

"With all due respect to Graham McNamee and his many fine points, I do not consider him in the class of Major White when it comes to describing a battle in the square ring, and as the officials of the National Broadcasting Company have always engaged Major White for the broadcasting of important fights, up to the time that he was no longer available because of his connection with the Columbia Broadcasting System, it would seem as if that was their opinion also. "Each man has his ardent supporters. Both are good; in fact, excellent announcers, but it is my belief that those who are interested in the fight itself, and an accurate description of it, prefer the Major's reporting.

"The question is the National Broadcasting Com-

porting.

"The question is the National Broadcasting Company going to say in effect to the millions of listeners. 'Yes, you can hear a broadcast from the ringside, but you cannot hear Major White report it.'?"

Grave stones will be guideposts for resurrection

Leaving the heir: "My boy, there is a better medium of exchange than money-



#### THE READER'S VIEW

#### READER ASSAILS COMMISSION

READER ASSAILS COMMISSION

RECEIVED the surprised of a lifetime today when I read your eulogy of the federal Radio commission's "fearless action" in compelling all stations to stay on their wave via using Piezo crystals. Can it be possible that you, too, have become so gullible as to believe that the learned commission is actually interested in the welfare of the listeners-in?

As I understood the matter, these gentlemen were appointed Radio commissioners to clear up the air and end the chaos that existed. Instead of doing so, they have made a worse muddle than ever by granting exhorbitant increases of power to various stations that are entirely unwarranted.

That dear friend of the B. C. L. (Prof. Goldsmith) claims that the service area of a 500-watt station is ten miles or so. Of course, all those speeches he made in various parts of the country were not intended to "soften up" the public to the idea of 50,000 watts for WEAF! Oh, no!!

I have never objected to the chain idea, for I feel

WEAF! Oh, no!!

I have never objected to the chain idea, for I feel that people in the south, west, New England, etc., are entitled to hear WEAF and WJZ as well as we in the Metropolitan section. And I also think that these two stations are entitled to more power than the others. I should say about five or ten thousand watts for each, not 50,000 and 30,000, respectively. And I'll tell you why. why.

You will note that the Eveready program is sent out over 18 broadcast channels by twenty different stations, using an aggregate of 196,750 watts of power. You will also note that every one of these stations are located above 300 meters on the broadcast band. These same stations under Mr. Hoover (before the piracy began) used a total of 36,250 watts, or 160,500 watts loss than they are using today. And then when you consider that 18 of the available 42 wave channels above 300 meters are sending out this program, and that there are two stations doing so on two different wave lengths, it doesn't take a great deal of intelligence to understand that it is ridiculous for WEAF to insist it needs 50,000 watts, or for any of the others to claim the necessity of more than 500 or 1,000 watts at the most.

THE time has come where the B. C. L. should let this federal Radio commission know that the members were appointed to protect the interests of the listeners, and I insist that they have been guilty of gross negligence in this matter. In fact, all of their decisions have been in favor of the broadcasters—at least some broadcaster.

decisions have been in lavor of the broadcaster.

Here are a few things I'd like to have the commission explain:

Why was KFQB, Fort Worth, Texas, dropped from 508 meters to 222 meters?

Why was WREO, Lansing, Mich., dropped from 285.5 meters to 231 meters? This station did put on excellent

meters to 231 meters? This station did put on excellent programs.

Why was WCAL, Northfield, Minn., dropped from 337 meters to 236 meters?

Why was KFRU, Columbia, Mo., dropped from 500 meters to 250 meters?

Why should WOK and WMBB of Chicago be permitted to use 5,000 watts? And WJAZ, Chicago, as well? And also WMBI, as I understand have just received permission.

Why was KLDS, Independence, Mo., dropped from 441 meters to 270 meters?

Why should WHAM, Rochester, be permitted to use 5,000 watts?

Why should WBCN and WENR of Chicago be more entitled to 5,000 watts as the property of Samuel Insull and his power combine than under their former owners?

Why should WODA of Paterson, N. J., be entitled to 1,000 watts when thay were one of the worst offenders at broadcasting phonograph records and were also wave jumpers?

Why was WOAI San Antonio, dropped from 395

wave jumpers?
Why was WOAI, San Antonio, dropped from 395 meters to 303 meters?

WHY is WGN permitted 15,000 watts unless the compaper wields?

Why was WABC, Richmond, N. Y., permitted exclusive time on the 326 meter channel when the veriest novice knows that their plea to "share time" with KBOQ (which they also own) was merely a subterfuge to obtain this exclusive wave?

Why was WSM granted the 341 meter wave instead of 283 meters which they formerly had?

Why was WOC, Davenport, dropped from 384 meters to 353 meters?

Why was WDAF, Kansas City, put on the same wave with WMCA and WLWL of New York City?

Why was WBBM and WJBT granted the choice 390 meter wave?

Why should WCCO be put on the same wave with WFI and WLIT of Philadelphia?

Why should WIBO, Chicago, be advanced to the 416 meter wave?

winy should wibo, Chicago, be advanced to the 416 meter wave?
Why should KFNF, Shenandoah, be permitted to broadcast their direct advertising talks on the choice 461 meter wave?
Why was WSB, Atlanta, taken off the 428 meter wave when we could hear them (and we greatly enjoyed hearing the "Little Cclonel") and put on the 476 meter wave where we cannot hear them?
Why should WJAR, Providence, be permitted to retain their 484 meters wave which they pirated instead of being put back on 306 meters where they had been allocated by Mr. Hoover?
Why should KFKX be changed from 288 meters to 526 meters?

It is my belief that the much heralded Radio commission has fallen down on the job badly, and if I had made such a poor job of anything I had attempted as they have, I'd resign at once to permit the appointment of some one more capable of handling the situation in an efficient manner.

nan emeient manner.
Radio Digest has a duty to perform in the interest of its readers, and the rest of the listening public. Will it rise to the occasion and fulfill this duty or will it, too, fall down on the job like the Radio commissioners have done? it, too, fall down on the some sioners have done?

L. S. J. CRANSE, 22 South St., Summit, N. J.

#### Speaking Extemporaneously



#### RADIO INDI-GEST

#### That Dumbest Feelin'

When the person who looks after the Radio On his vacation has gone,

And just when you want to hear something
You find that something is wrong,
You open the cabinet and look inside;

You open the cabinet and look inside;
Bewildered, you turn every knob in sight
And after playing around awhile
You find the darn thing won't even light.
You rush to the phone and call a service man
And tell him your tale of woe,
That the blamed thing won't work

And you just can't make it go.

And then while you're waiting for him to call
You glance around and find—

Someone had pulled the plug out of the wall.

Ain't THAT the dumbest feelin'!

That Red-Head Gal, BOBETTE.

Pig Tails Is Pig Tales

OME receivers have cat's whiskers, and some have pigtail coils. In making this explanation Inditakes occasion to apologize for our Mr. McDonald, who meant no insult to the readers when he said in his article on trouble shooting, ". . . at any rate, gently lift the outer coil of the spiral of the pigtail (if you have one) to see that . . ."

Anybody knowing of any right good authority for the correct pronunciation of the various Radio names and devices will confer a favor by communicating with Mr. Quin Ryan—mikitivity, for instance. Address care WGN, Chicago Tribune Tower.

Since Wilda Church has decreed the Radio audiences must no longer be hoodwinked by fake handmade kisses, a larger interest is being shown in rehearsals.

Dear Indi: This sommer me and my portable wur out Dear Indi: This sommer me and my portable wur out to a camp and I fell in luv (Or dear, Oh me, Oh my, Oh-h-hhh). I trid to think of a novul way to court her. Sow, aftur scratching my head fore to aft and eer to eer I hit on the skeam to tell her from WFBM when I knu she wood be lissuning. Sow I made up a poeum, which I shode to the direktur, like this:

which I shode to the direktur, like this:

I luv u on high,

I luv u on the levul—

But if I held u in my arms,

(Oh) I'd luv u like the devul!

The direketur sed they alreddy hed to mush trubil with the annownsurs who get that way, and besideways they were shutup for the sommer. Sow, now whattum I goin' to do (Oh)? O doant wish these WFBM burds no bad luck, but I wanta say to the Radio commiters at Washington, "moar power to WOWO."

L. L. Htims, Fort Wayne, Ind.

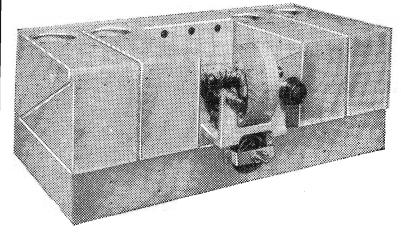
Steeplechase Words

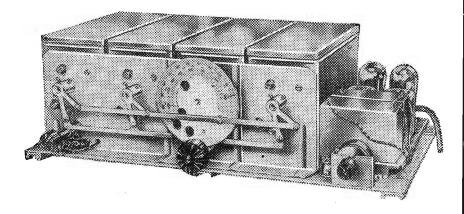
Steeplechase Words

Look! Look! dear Indi-spensibles, one of you sent in a hint about a new game. It wasn't signed, don't know where you got the idear, but it's good. You know how we had Cross Words, Golf Words (like white to black, ape to man, etc.)—well, this is Steeplechase words, where you take a word and make puzzle sentence out of it. Suppose you have the words "seethe" and "saliniform." Then you use them this way: "We seethe girl's knees"; or "Getting a husband's saliniform." Now here's a set of words for you to work out: Director, wattle, bitter, music, laughter. Send in your five sentences and win a prize for the cutest list. First prize, 1 Blue Jelly Bean; second prize, 1 Yellow Jelly Bean; third prize, 1 Red Jelly Bean. First come, first served. The best list will be published, if received before October 15.

## ALUMINUM

## Everywhere You Turn at the Radio Shows





Extensive shielding was noticeable in the improved sets shown by leading manufacturers at the Radio Show in New York and will be observed again in the Chicago Show.

Aluminum is the metal used for shielding in the majority of standard sets. This indicates that the results of their experiments, which always precede a

manufacturing policy, were favorable to Aluminum.

The fact that Aluminum for shielding is the metal found in so many of the best sets should be a guide to the layman, either in building or buying.

All information on the subject of Aluminum in Radio may be had at the Chicago Radio Show, Booth C. C. 1.

#### **ALUMINUM COMPANY OF AMERICA**

2466 Oliver Building, Pittsburgh, Pa. Offices in 18 Principal American Cities

ALUMINUM IN EVERY COMMERCIAL FORM



CECO

Amplifier Type M·26

(226)

 Fil. Volts
 1.5

 Fil. Amp
 1.05

 Plate Volts
 .90-135

 Not to Exceed
 .180

LIST PRICE,

\$300



Announcing
A. C. TUBES

ALTERNATING CURRENT

using raw A. C. on the Filament or Heater and can be used in any set specifying these types. The M-26 is used in the radio and audio frequency stages and has a standard base. The N-27, of the separate heater type, is used as a detector or amplifier and has a five-prong base. Will give superior results and maximum useful life in any set designed to use A. C. Tubes of this type.

Write for Particulars

C.E. Mfg. Co., Inc., Providence, R.I., U.S.A.

Largest Plant in the World Making Radio Tubes Exclusively



CECO

Detector Type N·27

 Heater Volts
 2.5

 Heater Amps
 1.75

 PLATE VOLTS

 As Detector
 45

 As Amplifier
 90-135

 Not to Exceed
 180

LIST PRICE,

\$600

parties and unusual re

quest programs is the Edgeworth Banjo trio be-low. They are shown here before the microphone of

WRVA planning an un-

## OCTOBER BRINGS BROADCAST OF WOR

#### HIGH LIGHTS OF THE AIR

THE WORLD Series will be broadcast by all the stations now giving baseball scores and complete descriptions of games. Where the station is too far away to give a picture of each game, the station will keep the fan in touch with the leading events of the day.

October is the month in which football as a sport holds the public eye and the Radio ear. A list of many of the games to be broadcast may be found under the Headliners on Saturdays.

WSM has turned Monday night into WSM has turned Monday night into a frolic. Singers of popular songs, a dance orchestra, strummers on mournful guitars, and plenty of good comedy is injected into the proceedings beginning at 8 p. m. Central time. Tom, Joe and Jack, the Minstrel Boys who have recently returned from a gorilla hunt in Radio-land, have some new antics to perform.

new antics to perform.

Fans in and around Cincinnati are feeling lost and unhappy because they cannot hear Ford and Glenn any more. However, this happy pair of Radio entertainers has merely moved to Detroit for the fall and may now be heard at WJR. The famous "Dinner Bell" program of the team will be given as usual at noon. At 7:15 p. m. the children will have their lullaby hour. A popular song for grownups is broadcast at 10 o'clock.

A series of Sunday evening concerts given at 5 p. m. Pacific time are being given for Western fans by the Abas string quartet over KPO. These well known artists are members of the San Francisco symphony orchestra.

known artists are members of the San Francisco symphony orchestra.
Those blackface comedians, the KOA Minstrels, are so popular with mountain fans that they are giving, by request, a repeat performance of their "Dark, Dark Secrets" Monday, October 14, at 8:15 p. m. Tambo, Bones and Rastus promise a hilarious time for all

Bones and Rastus promise a hilarious time for all.

The new Columbia Broadcasting system promises new voices and new broadcasting ideas during this chain's programs which will be on the air Mondays, Wednesdays and Fridays from 9-11 p. m. Eastern time. The Sunday programs will be broadcast from 3-5 p. m. and 9-11. The stations broadcasting these programs may be found under the Headliners.

#### SATURDAY, OCTOBER 1 Headliners

Eastern Central Mountain Pacific 7:30 p.m. 6:30 5:30 4:30
WJR-WCX (440.9m-680kc) Aubrey Hartman, 8 7 Daritone. 7
8 WP (508.2m-590kc) Gargaret Gavaghan, soprano. Young City (1982) Gargaret Substitution (1982) Gavaghan, soprano. Substitution (1982) Gavaghan, substitution (1982) Gavaghan, soprano. Substitution (1982) Gavaghan, sub

program. 8:45 7:45 6:45 WIP (508.2m-590kc) Tom Adams and his Musical Saw.

Saw.

9
WBZ (331.1m-900kc) Bert Lowe and his Hotel Statler orchestra.
WJR-WCX (440.9m-680kc) Ford and Glenn.
WMAQ (447.5m-670kc) Popular song cycle, Pratt and Sherman.

and Sherman.
1:00 a. m. 12 11 10
KGO (384.4m-780kc) Wilt Gunzendorier's Hotel
Whitcomb band, San Francisco.

#### Football

Football

Bradley-Illinois at Urbana, WRM (272,6m-1100kc), Iowa-Monmouth (20lege at Iowa City, WSUI (422,3m-710kc).

Minnesota-North Dakota at Minneapolis, WAMD (225,4m-1330kc).

Northwestern-South Dakota at Evanston, WEBII (365,6m-820kc), WIBO (416,4m-720kc).

WMBB (252m-1190kc).

Santa Clara-U, S, C at Los Angeles, KFI (468.5m-642kc). WMBB (2001)
Santa Clara-U. S. C at Los Angeles, 2006/24c).
Stanford-St. Mary's at Palo Alto, KPO (422.3m-710ke).
Wittenberg-Ohio at Columbus, WEAO (282.8m-1060kc).

#### Regular Saturday Features

Eastern Time Stations KDKA Pittsburgh, Pa. (315.6m-950kc) 7:30 p. m. KDKA Pittsburgh, Pa. (315.5m-950kc) 7:30 p. m. concert.

WBZ Springfield, Mass. (333.1m-900kc) 7:34 p. m. ensemble; 7, WJZ; 10, orchestra.

WCAE Pittsburgh, Pa. (516.5m-5500kc) 7:45 p. m. musicale; 8:30, WEAF, Pa. (516.5m-5500kc) 7:45 p. m. Week-Enders, WEEI, WRC. WGR, WCAE, WJAR, WTMJ; 8:30, Old Gold on Broadway; 11, orchestra.

WEEI Boston, Mass (447.5m-670kc) 7:30 p. m. WEAF, 9:30, WEAF; 11:05, supper.

WGR Buffalo, N. Y. (303m-990kc) 8 p. m. WEAF; 9:30, WEAF; 11:05, supper.

WGY Schenectady, N. Y. (379.5m-790kc) 7:30 p. m. musicale; 8:30, musicale; 11, dance music.

WHK Cleveland, Ohio (265.3m-1130kc) 8 p. m. program; 11, Rubberneck man.

WHAR Atlantic City, N. J. (272.6m-1100kc) 8 p. m. Seaside hotel trio.

WIP Philadelphia, Pa. (508.2m-590kc) 7 p. m. bedtime story; 8, recital; 9, concert; 10, orchestra; 11:05, organ. organ.
WJAX Jacksonville, Fla. (336.9m-890kc) 8:05 p. m. program.

WIR-WCX Detroit, Mich. (440.9m-680kc) 7 p. m. good will ensemble; 8, Ford and Glenn; 11:30. Fortiac Tribe.

WIZ New York, N. Y. (454.2m-660kc) 7 p. m. Hotel Astor rerestra; 8:30. Mediterraneans dance band. WHAM; 10, time, WBZ; 10, Keystone duo; 10:30,

WHAM; 10, time, WBZ; 10, Keystone duo; 10:30, orchestra.
WMAK Buffalo, N. Y. (545,1m-550kc) 7:30 p. m. Musicale; 8:30, program; 9:30, musicale.
WMCA New York, N. Y. (370,2m-810kc) 6:30 p. m. orchestra; 8, musical extravaganza; 9, boxing bouts; 11, entertainers.
WOR Newark, N. J. (422.3m-710kc) 6:15 p. m. ensemble; 9:30, orchestra; 10:55, news; 11, orchestra.

ensemble: 9:30, orchestra; 10:55, news; 11, orchestra;
WPG Atlantic City, N. J. (672.5m-1100kc) 7:05 p. m. dinner music; 10, studio program; 11:30, dance orchestra: 12, orchestra.
WRC Washington, D. C. (468.5m-640kc) 7 p. m. Bible talk; 8:30 WEAF; 9:30-12, WEAF, WSAI Cincimnatt, Ohi (361.2m-830kc) 8:01 p. m. music; 9, orchestra; 11:30, orchestra.
WSEA Norfolk, Va. (263m-1140kc) 7 p. m. dinner concert; 8, recital WTAG Worcester, Mass. (516.9m-580kc) 8 p. m. orchestra: 10, orchestra.
WTAM Cleveland, Ohio (399.8m-750kc) 6 p. m. orchestra; 7, studio concert: 7:30, WEAF; 8:30, Pocahontas Indians; 9, Ev Jones and his Merrymakers.

WWNC Asheville, N. C. (296.9m-1010kc) 7 p. m. din-ner concert.

wwnc Asheville, N. C. (296.9m-1010kc) 7 p. m. dinner concert.

Central Standard Time Stations

KFAB Lincoln, Nebr. (309.1m-970kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:30-9, Buick Little symphony; 9-10, Chamber of Commerce program,

KMA Shenandoah, Ia. (394.5m-760kc) 6 p. m. sacred songs, 7, trio; 8, singers.

KFRC Houston, Tex. (296.9m-1010kc) 7:30 p. m. studios concert.

KTHS Hot Springs National Park, Ark. (384.4m-780kc) 8:30 p. m. musicale; 9, dance concert.

KYW Chicago, Ill. (526m-570kc) 7-10:30 p. m. program; 10:32-10:55, Congress hotel music.

WBAP Ft. Worth, Tex. (499.7m-600kc) 7:30-8 p. m. Interdenominational Sunday school lesson; 9:30, Clyde and Florence Messengale, popular numbers; 10:30, theater program, 12, jazz program, WBBM Chicago, Ill. (389.4m-770kc) 7 p. m. orchestra; 10, studio program; 12, jazz program, WBCN Chicago, Ill. (288.3m-1040kc) 7 p. m. classical program; 1(2, 288.3m-1040kc) 7 p. m. classical program, WCCO Minncapolis-St. Paul. Minn. (405.2m-740kc)

program. WCCO Minneapolis-St. Paul. Mion. (405.2m-740kc) 6:15 p. m. dinner concert, Wesley Barlow's Nicollet hotel orchestra; 8, music; 10:05, dance program; WDAF Kansas City, Mo. (370.2m-810kc) 8, program; 8:30-10, poplar program; 11:45-1 a, m. Nighthawk frolic.

11:30-12:30 a, m. Falace theoret recital, WGN Chicago, Ill. (305.9m-980kc) 6:10 p. m. Punch and Judy; 6:35, ensemble; 6:50, Old Fashioned almanack; 8:30, Salernos; 9:30, Over the Ilills and Far Away; 10, Sam 'n' Henry; 10:20, music box; 10:40, musicale.
WHAS Louisville, Ky. (461.3m-650kc) 7:30 p. m.

WHB Kansas City, Mo, (336.9m-890kc) 7-8 p. m. organ; 8-10, concert.
WHT Chicago, Ill. (416.4m-720kc) 8 p. m. program.
WHBO Chicago, Ill. (416.4m-720kc) 6:45-7 p. m. songs; 10-1, popular program.
WJAZ Chicago, Ill. (263m-1140kc) 7 p. m. dinner concert; 9, studio.
WJJD Chicago, Ill. (365.6m-820kc) 6 p. m. symphony; 10:15-11, studio program; 12, Palmer House program.

gram. WLAC Nashville, Tenn. (226m-1330kc) 7 p. m. children's period; 8-9, program. WLS Chicago, Ill. (344.6m-870kc) 7:30-1 a. m. barn

dance.

WLW Cincinnati, Ohio (428.3m-700kc) 7 p. m. organ;
9. Castle Farm; 9.40. Castle Farm.
WMAQ Chicago, III. (447.5m-670kc) 7 p. m. dance
music; 8, photologue; 9, song cycle; 1, popular

program,
WOC Davenport, Ia. (374.8m-800kc) 7-8 p. m. musicale.
WOW Omaha, Neb. (508.2m-590kc) 7 p. m. program; 7:30, program; 8, literary period; 9, program; 10, orchestra.
WQJ Chicago, Ill. (447.5m-670kc) 9:45 p. m. popular

program; 8-9, classical program.
WSB Atlanta, Ga. (475.9m-630kc) 8 p. m. program; 5, concert. Nashville, Tenn. (340.7m-880kc) 8-11 p. m.

barn dance. WSMB New Orleans, La. (322.4m-930kc) 8:30-10:30 p. m. Public School of the Air program; organ 

WEAF; 9:05, orchestra.

Pacific Standard Time Stations

KFI Los Angeles, Calif. (468.5m-640kc) 7:30 p. m. program; 8-9, orange network; 9-10, classical program; 11-12 a, m. KFI midnight frolic.

KFOA Seattle, Wash. (447.5m-670kc) 8-9 p. m. National Broadcasting company.

KFWB Hollywood, Calif. (252m-1190kc) 6-7 p. m. Pontiac dinner hour; 8-9, program, Mona Motor Oil Company; 9-10. musicale; 10-11, program.

KGO Oakland, Calif. (384.4m-780kc) 8 p. m. National Broadcasting company; 9, concert; 10, band KGW Portland, Ore. (491.5m-610kc) 6-7 p. m. dinner music; 8-9, National Broadcasting company; 10-12, dance music. music; 8-9, National Joseph Game music, KHJ Los Angeles, Calif. (405.2m-740kc) 6:30 p. m. children's hour; 8-10, varied program, KJR Seattle, Wash. (348.6m-860kc) 8-10 p. m. studio

program.

KNX Hollywood, Calif. (336.9m-890kc) 7:30 p. nt.
features; 10, Hotel Ambassador; 11, Saturday night
frolic; 12, midnight express.

KPO San Francisco, Calif. (422.3m-710kc) 6:30 p. m.
States Restaurant orchestra; 8, National Broadcasting company; 9, dance; 11, orchestra.

#### Saturday, silent night for: KFDM, KGA, KLX, KOA, KOB, KOIL, WBAL, WBT, WCBD, WCSH, WFLA, WGBF, WGHP, WHB, WHN, WHÖ, WICC, WJAR, WOAI, WOS, WRVA, WTIC, WWJ. SUNDAY, OCTOBER 2

For over a year Vella Cook's rich contralto voice has been heard at WCFL, Chicago. She is a permanent member of the Voice of Labor's staff. Astern Central Mountain Pacific 3 pm. 2 1 12 WOWO (228.9m-1310ke), WCAO (384.4m-780ke), Columbia chain. 2 7:30 6:30 5.30 4.30 WHO (535.4m-560kc) Bankers Life Little sym pliony. 8:30
7:30
6:30
5:30
KFI (468.5m-640kc), KPO (422.3m-710kc), KGW
(491.5m-610kc), KGO (384.4m-780kc) Crosley (491.5m-610kc), KGO (384.4m-780kc) Crosley hour.

WCBD (344.6m-870kc) Semi-chorus.

WCR (422.3m-710kc), WEAN (319m-940kc), WHAC (352.7m-850kc), WEAU (319m-940kc), WMAC (3545.1m-550kc), WCAU (277.6m-1080kc), WJAS (270.1m-1110kc), WADC (295.9m-1010kc), WAIU (282.8m-1060kc), WKRC (333.1m-900kc), WGHP (319m-940kc), WMAO (447.5m-670kc), KOIL (277.6m-1080kc), KMOX (299.8m-1000kc), WOWO (228.9m-1310kc), WCAO (344.4m-780kc), Columbia chain.

9:15 WEAF (491.5m-610kc) and chain, Atwater Kent program, Mildred Seeba, Soprano.

WJZ (454.3m-660kc), WHAM (277.6m-1080kc)

Vibrant melodies.

9:30

WJZ (454.3m-660kc), WHAM (277.6m-1080kc), Morley singers with cello.

10 9 9 WMBB (252m-1190kc) Dell Lampe; Trianon Ensemble.

WON (422.3m-710kc), WEAN (319m-940kc), WNAC WMBB (252m-1190kc) Dell Lampe; Trianon Ensemble.
WOR (422.3m-710kc), WEAN (319m-940kc), WNAC (352.7m-850kc), WFBL (258.8m-1160kc), WMAK (545.1m-550kc), WFBL (258.8m-1160kc), WAMAC (270.1m-1110kc), WADC (296.9m-1010kc), WAIU (282.8m-1060kc), WKRC (333.1m-900kc), WGHP (319m-940kc), WMAQ (447.5m-670kc), KOHL (277.6m-1080kc), KMAX (299.8m-1000kc), WGWO (228.9m-1310kc), WCAO (384.4m-780kc), Columbia chain. 10:30 8:30 KTHS (384.4m-780kc) Clyde Foley, balladist. 11 (468.5m-640kc) Pat O'Harro and his Irish serenaders.
W1BO (416.4m-720kc) Mabel Day, prima donna. 12 mid. 11 KFON (233m-1290kc) Texas Cowboys. WFAA (499.7m-600kc) La Mariquita and her Castillian orchestra. Regular Sunday Features

Central Time Stations

KDKA Pittsburgh, Pa. (315.6m-950kc) 2 p. m., WJZ;
7:30, concert; 8:15, WJZ; 9:15, WJZ, WJZ, WBAL Baltimore, Md. (285.5m-1050kc) 6:30-7:30 p. m. WJZ; 7:30, concert. WJZ; 7:15, Hotel Statler ensemble; 8:15, WJZ; 9:15, 7:15, Hotel Statler ensemble; 8:15, WJZ; 9:15, program.

WCAE Pittsburgh, Pa. (516.9m-580kc) 9:30 a. m. church; 5:30, WEAF; 6:30, dinner concert; 7:18, WEAF; 9:45, WEAF, WEAF, WEAF, Portland, Me. (361.2m-830kc) 10:30 a. m. church; 7:30, church; 9:15, WEAF, WEAF New York, N. Y. (491.5m-610kc) 3 p. m. service; 5:30, young artists program; 7:20, Canitol theater, WEEl, WJAR, WTAG, WRC,

WCAE, WWJ, KSD, WHAS, WSM, WSB, WMC, WGY, WTMJ, WBT; 9:15, time, WEEI, WIAR, WRC, WCAE, WWJ, WSAI, KSD, WOC, WCY, WEBH; 9:15, Atwater Kent radio hour, WEEI, WGR, WRC, WCAE, WWJ, WSAI, WGN, KSD, WCO, WGY, WGY, WGY, WGY, WGAE, WYJ, WSAI, WGN, KSD, WCO, WGY; 10, cathadral echoes, WRC. WEI Boston, Mass. (447sm-670kc) 7:20 p. m. WEAF; 9:15, WEAF; 10, cruising the air; 10:05, Keih's Radio revue, WFI Philadelphia, Pa. (405.2m-740kc) 4:30 p. m. chapel; 7:30, service.

WCHP Detroit, Mich, (319m-940kc) 2-4 p. m. Columbia chain; 8-10, Columbia chain; WGR Buffalo, N. Y. (302.8m-990kc) 10:45 a. m. service; 9:15 p. m. WEAF; 9:45, talks.

WHN New York, N. Y. (394.5m-760kc) 10 p. m. program; 12, Frivolity club.

WIP Philadelphia, Pa. (508.2m-590kc) 10:45 a. m. service; 9:30 p. m., WGBS, or 7:15 p. m. service.

WJAX Jacksonville, Fla. (336.9m-890kc) 10:45 a. m. service; 9:30 p. m., WGBS, or 7:15 p. m. service.

WJAX Jacksonville, Fla. (336.9m-890kc) 10:45 a. m. service; 9:30 p. m., WGBS, or 7:15 p. m. service.

WJAX Jacksonville, Fla. (336.9m-890kc) 10:45 a. m. First Baptist church of Pontiac.

WJZ New York, N. Y. (451.2m-660kc) 9 a. m. children's hour; 1 p. m. Mediterraneans, WRC; 2. Roxy, WBZ, KDKA, KYW, WRC, WOC, WJR. Si30, vespers; 7, organ, 7:30, singers, WBAL; 8:15. Collier hour, WBZ, KDKA, KYW, WJR, WCCO, WDAF, KSD, WLW; 9:30, Morley Singers, WHAM; 10, time, WBZ, WHAM; 10, violinist, WBZ, WHAM; 10, time, wervice; 2 p. m. orchestra.

WLW Cincinnati, Ohio (428.3m-700kc) 7:15 p. m. service; 8:15, WJZ, 9:15, orchestra.

WLMCA New York, N. Y. (545.1m-550kc) 7:50 p. m. service. WMAK Bulfalo, N. 1. (343.1m-3030kc) 7.32 p. m. service.
WMCA New York, N. Y. (370.2m-810kc) 7-12 mid. program; 12, orchestra,
WOO Philadelphia, Pa. (508.2m-590kc) 10:45 a. m. service; 2:30 p. m. exercises; 6. organ.
WOR Newark, N. J. (422.3m-710kc) 6 p. m. choir; 7, organ; 8:45, musicale; 9, Columbia hour. 7, organ; 8:45, musicale; 9, commina nour when the city, N. J. (272.6m-1100kc) 4:15, community recital; 5:15, twilight hour; 9:15, evening program; 10, Sunday evening musicale.

WRC Washington, D. C. (468.5m-640kc) 11 a. m. service; 12 n. WIZ; J. n. m. WIZ; 2-3, WEAF; 4, Washington cathedral; 7:20, WEAF; 9:15, WEAF; 10, WEAF.

10, WEAF.
WSAI Cincinnatl. Ohio (361.2m-830kc) 7:45 p. m. climes; 8:15, time; 8:15, WEAF; 8:45, Congress string quartet,

usual feature for the evening program. Southern melodies and old plantation songs when payed by this trio have the flavor of the old time South. DANCING 

10:15. Ktb: 10:30, Kths,
Whn: Whn: Wb: 11.
Kgw, Ko, Whn, Wjaz;
11:45. W ; 12. Kgw,
Khi, Knx, Kpo, Wdaf,
Wage,
Wednesday
9:15. Waf; 9:30. Whap,
Weaf,
Wgbu, Wgep,
Wgsp, Whn; 11.
Kmox, Koll, Kpo, Webh,
Wdaz, Wlaz;
11:45, Wdaf; 12.
Kfwa, Knx, Kpo, Wjaz,
Wjaz,
Thursday

## WORLD SERIES AND FOOTBALL GAMES



#### DANCING Central Time

Central Time

Monday

Neger 9, Wjar,
Wor; 9:15, Wahg; 10,
Khak, Wgep, Wgr, Wnye,
Wge; 10:15, Wor; 10:30,
Wgep, Whn; 11, Kgw,
Koil, Wgep, What; 12, Knx, Kpo,
Tuesday
10:15, Krb; 10:30, Kths,
Whn; Wsb; 11,
Kgw, Ko, Whn, Wjaz; 11:45,
Wji, Knx, Kpo, Wdaf,
Wjaz; 1; Wgi,
Who, Wjaz; 10:15, Was; 11:45,
Wgi, Wsb; 11,
Kgw, Ko, Whn, Wjaz; 11:45,
Wiji, Knx, Kpo, Wdaf,
Wjaz; 1, Wgi,
Wgen, Wdaf,
Wjaz, 10:05, Weee;
10:30, Wbap,
Wgen,
Wjaz, Wji, 10:05, Weee;
10:30, Wbap,
Wjaz, Wji, 10:05, Weee;
10:30, Wogep, Wln; 11,
Kmox, Koil, Kpo, Webh,
Wgen,
Wjaz; 11:45, Wdaf; 12,
Kiwa, Knx, Kpo, Wjaz,
Wjid.

Thursday
8, Wir 9, Wabh, Wael

Rifwa, Knx, Kpo, Wjaz,
Wjjd. Thursday
8, Wir, 9, Webh, Weel,
Winn, Wir, Wmbb, Wsal,
Wtag: 9:05, Wbz, Wlp;
9:30, Wgs, Wby,
Who, Who, Web,
Wbbm, Weaf,
Who, West,
Who, West,
Who, Woe,
Tiday
8, Wwi; 9, Wex,
Web,
Weel,
Writh,
Wgbu, Who,
Krix, Kpo,
Wjid,
Friday
8, Wwi; 9, Wex,
Web,
Weel,
Wgbu,
Wmbb; 9:30, Weatl,
Wgcp,
Wmbb; 9:30, Weatl,
Wgcp,
Who, Wgr,
Wgcp, Who, Wgr,
Wgcp, Who, Wgr,
Wgcp, Who, Wgr,
10:45, Wls; 11, Kfwb,

WSEA Norfolk, Va. (263m-1140kc) 8:30, variety con cert.
WTAM Cleveland, Ohio (399.8m-750kc) 11 a. m. service; 3 p. m., musicale; 6, orchestra; 7, Park theater program; 8, service; 9, Evensong; 10, orchestra.
WTIC Hartford, Conn. (535.4m-560kc) 4:30 p. m.
Howard Radio hour; 5:30, ensemble; 6:30, Melodics for Folks at Home.
WWJ Detroit, Mich. (352.7m-850kc) 10 a. m. services; 7:20, WEAF; 9:15, WEAF.

WWD Detroit, Mich. (322./m-s50kc) 10 a. m. services; 7:20, WEAF; 9:15, WEAF.

Central Time Stations

KFAB Lincoln, Neh. (309.lm-970kc) 11 a. m. service; 9 p. m., symphony.

KLDS Independence, Mo. (270.lm-1110kc) 8:30 a. m. Bible study; 11, studio service; 2 p. m. KLDS string quartet; 3, Radio church; 6:30, vespers, sermon; 9:15, services, choir,

KPRC Houston, Tex. (296.9m-1010kc) 7:30 p. m. services; 9:30, concert.

KSD St. Louis Mo. (545.lm-550kc) 6:20 p. m. KTHS Hot Springs National Park. Ark. (384.4m-780kc) 11 a. m. services; 8:30-9:30, Music Lovers' Rev Parin 7:111 (526m-570to, m. WJZ; 5:30, Rev Parin 7:115, WZ.

WBAP Ft. Worth, Tex. (499.7m-600kc) 11 a. m. services; 12:30-1:30 p. m. Kiddles' kour; 9:30-11, sacred concert.

WCRD Zion III (434.6m-870kc) 8 p. m. trios mixed

WBAP Ft. Worth, Tex. (499.7m-600kc) 11 a. m. services: 12:30-130 p. m. Kiddles' hour; 9:30-11, sacred concert.
WBBD Zion, III. (344.6m-870kc) 8 p. m. trios, mixed quartet. Zion choir.
WCCO Minneapolis-5t. Paul, Minn, (405.2m-740kc) 9:45 a. m. services; 10:50, services; 4:10 p. m. House of Hope Presbyterian church; 6. Second Church of Christ, Scientist; 8:15, WEAF.
WCOA Pensacola, Fla. (249.9m-1200kc) 11 a. m. services; 7:45, service.
WDAF Kansas City, Mo. (370.2m-810kc) 4:30 p. m. WEAF; 7:15, WEAF; 8:15, WEAF.
WDOD Chattanooga, Tenn. (245.8m-1220kc) 11 a. m. service; 5, Bible forum; 7:30, service; 9:30, concert. WEBH Chicago, III. (365.6m-820kc) 10:30 a. m. Seventh Church of Christ, Scientist; 6-7 p. m. organ; 7:9, Edgewater Beach hotel orchestra. WENR Chicago, III. (288.3m-1040kc) 6-7 p. m. music; 9:30-11, classical program.
WFAA Dallas, Tex. (498.7m-600kc) 2-3 p. m. Farmers hour, musical; 6-7, Bible class; 8:15, WEAF; 11-12, La Marinutta and her Castilians.
WGN Chicago, III. (305.9m-890kc) 6:10 p. m. Punch and Judy; 6:45, string quintet; 7, Million sing; 7:20, old fashioned allmanack; 7:50, Blackstone string old fashioned allmanack; 7:50, Blackstone string old fashioned allmanack; 7:50, Blackstone string

Pacific Standard Time Stations

KFI Los Angeles, Calif. (468.5m-640kc) 7-8 p. m. organ; 8-9, classic hour; 9-10, orange network; 10-11, Packard Six dance orchestra.

KGO Oakland, Calif. (384.4m-780kc) 11 a. m. service; 6:30-7:30, little symphony; 7:35, service; 9-10, orange network.

KGW Portland, Ore. (491.5m-610kc) 11 a. m. church; 7:30-9 p. m. church; 9-10, symphony orchestra; 10-11, symphony. KGW Portland, Ore. (491.5m-610kc) 11 a. m. church; 7:30-9 p. m. church; 9-10, symphony orchestra; 10-11, symphony, KHJ Los Angeles, Calif. (405.2m-740kc) 7-8 p. m. service; First M. E. church; 8-10, program. KJR Scattle, Wash. (348.6m-860kc) 11 a. m. service; 9-130, studio program; 8, service; 9-130, studio program; 9-130, stu

Mountain Standard Time Stations KOA Denver, Colo. (325.9m-920kc) 11 a. m. church service; 5:30, organ; 7:45, service.

Sunday, silent night for: KSFD, KLX, KMA, KOB, WDAF, WFLA, WSMB, WRVA, WTAG, WTIC.

#### MONDAY, OCTOBER 3 Headliners

WGY (379.5m-790kc) "Footnotes" T. Arthur Cohen.
7:30 6:30 5:30 4:30
WJZ (454.3m-660kc), KDKA (315.9m-950kc), WBZ (333.1m-900kc), KYW (526m-570kc), WRC (468.5m-640kc), WILAS (461.3m-650kc), WSB (475.9m-630kc), WSM (340.7m-880kc), WBAL W\$M\$SIGNED\$W\$ECAMPBCI (\$40.950kc) \$1.000 km = 1.000 km = 1.000

#### FARMERS' PROGRAM INDEX

Special Farm Features

#### Weather

Local Time

Local Time
KDKA, 10 a. m., 11 p. m.
KFH, 8:30 p. m.
KFNP, 7:30 a. m., 12:40 p. m.
KFOA, 4:30 p. m.
KFWI, 10:30 a. m.
KGA, 6 p. m.

KFNF, 7:30 a. m., 12:70 p. m., KFNF, 7:30 p. m. KFNH, 10:30 a. m. KGA, 6 p. m. KGA, 6 p. m. KGA, 12:30 p. m., 7:03 p. m. KGW, 10 a. m., 7:30 p. m. KGW, 10 a. m., 7:30 p. m. KJR, 12 n. KMMJ, 9:30 a. m., 12:30 p. m. KMMJ, 9:30 a. m., 12:30 p. m. KMMJ, 1:45 a. m., 5:45 p. m. KOA, 11:45 a. m., 5:45 p. m. KOM, 12:15 p. m., 8 p. m. KYW, 10:55 a. m., 11:55 p. m. KYW, 10:55 a. m., 11 p. m. WABC, 11:25 a. m., 10:30 p. m. WCAE, 3:40 p. m. WCSH, 7:10 p. m. WCSH, 7:10 p. m. WCSH, 7:10 p. m. WCSH, 7:10 p. m. WDAF, 5:45 p. m. WDBO, 7:40 p. m. WEJ, 11:05 p. m. WEJ, 11:05 p. m. WHAD, 10:30 a. m., 9:30 p. m. WGY, 12:06 p. m. WHAD, 10:30 a. m., 2 p. m. WHAD, 10:30 a. m., 2 p. m. WHAD, 10:30 a. m., 2 p. m. WOAI, 10 a. m. WCM, 11:15 p. m. WOAI, 10 a. m. WOAI, 10:30 a. m., 10:05 p. m. WOAI, 10:30 a. m., 10:05 p. m. WOO, 11:30 a. m., 10:05 p. m. WSM, 11:45 a. m. WTAG, 12:59 p. m.

Monday

Tuesday  
 Eastern
 Central
 Mountain
 Pacification

 11:30
 11:30
 11:30
 10:30

 WFAA
 (499.7m-600kc)
 Farmers
 hour.

 1:25
 (333.1m-12:35
 11:30
 10:35

 KSAC
 (333.1m-19:00kc)
 Farm talks.
 11:40

 KFJF
 (270.1m-11:0kc)
 State farm talks.
 12

 KOMO
 (305.9m-500kc)
 Garden talk
 12

 KDBO
 (288.3m-1040kc)
 Farm talks
 3:20

 WDBO
 (288.3m-1040kc)
 Farm talks
 6:30

 KOA
 (325.9m-920kc)
 Farm question box

Wednesday

Thursday

Eastern Central 10
11
11
120 p. m. 11:20
CSH (361.2m-830kc), Farm flashes.
12:20 p. m. 11:20
CSH (361.2m-830kc), Farm flashes.
12:25 p. m. 11:20
CSH (361.2m-830kc), Farm program.
12:45
CSH (365.3m-1130kc), U. S. farm flashes.
W.S.M (340.7m-880kc), Farm talks.
10
WHB (336.9m-820kc), Farm flashes.
WLS (344.6m-870kc), Dinner bell program.
1:15
CSH (309.1m-970kc), Farm programs.
1:30
CSH (499.7m-600c), Farm talks.
1:35
CSAC (333.1m-900kc), Farm talks.
3
CSH (309.7m-600c), Farm talks.
3
CSH (309.7m-920kc), Farm talks.
3
CSH (325.9m-920kc), Farm question box. Thursday

Friday

KOA (325.9m-220kc), Aggie Kickoffs, 8:05
WOS (230.6m-1300kc), Missouri State Board o Agriculture.

9 (422.3m-710kc), WEAN (319m-940kc), WMAK (545.1m-550kc), WEBL (258.5m-1160kc), WJAS (270.1m-1110kc), WADIC (296.9m-1010kc), WAIU (282.8m-1060kc), WKRC (333.1m-900kc), WGHP (319m-940kc), WMAK (345.7m-670kc), WGHC (296.9m-1010kc), WGHC (297.6m-1030kc), WGHC (319m-940kc), WMAC (347.5m-670kc), WOWO (228.9m-1310kc), WCAO (384.4m-780kc), Columbia chain. 9:10 8:10 7:10 6:10

WRVA (254,1m-1180kc) Pat Binford and Bright Keck, 9:30 8:30 7:30 6:30
KTHS (384.4m-780kc) The Spanish Seronade, WFAA (499.7m-600kc) Male quartet.
9:45 8:45 7:45
WSM (340.7m-880kc) Tom, Joe and Jack, WSM 10 men. 6 Ministrel inen, 10 9 8 7 WCCO (405.2m-740kc) Vodvil, WGBF (236.1m-1270kc) Crescent City jubilee

baseball; 6:30, orchestra; 12:30, frolic cluchestra;
WOO Philadelphia, Pa. (508.2m-590kc) 7:30
dinner music; 9:25, organ,
WOR Newark, N. J. (422.3m-710kc) 7:30 p. r.
chestra; 9, Columbia hour; 10:07, orchestra;
WPG Atlantic City, N. J. (272.6m-1100kc) 6:45
organ; 9, program; 11:30, orchestra.
WRC Washington, D. C. (468.5m-640kc) 5-6
WEAP; 6:30-11, WEAF;

Regular Monday Features Eastern Time Stations
KDKA Pittsburgh, Pa. (315.6m-950kc) 7:30 p.
WJZ; 9, WJZ; MJZ MJ (205.5m 1050kc) 6:30 p.

WGBF (236.1m-1270kc) Crescent City public singers. WEAN (319m-940kc), WNAC (352.7m-850kc), WFBL (258.5m-1165kc), WNAC (352.7m-850kc), WFBL (258.5m-1166kc), WJAS (270.1m-1110kc), WAOU (277.6m-1080kc), WJAS (270.1m-1110kc), WADC (296.9m-1010kc), WGHP (319m-940kc), WKRC (333.1m-900kc), WGHP (319m-940kc), WMAQ (447.5m-670kc), WOWO (228.9m-1310kc), WCAO (384.4m-780kc), Columbia chain, 10:15 9:15 8:15 Clas Club of First

WCAE Pittsburgh, Pa. (516.9m-580kc) 6 p. m. concert; 8, song recital; 9, orchestra; 10 grand WCSH Portland, Me. 1861.2m-830kc) 7:30 p. m. (197.0m) 10 pt. m. (197.0m)

Studio musicate, 2,73, Asamo Manago, Studio MGBS New York, N. Y. (348.6m.860kc) 6:30 program.

WGHP Detroit, Mich. (319m.940kc) 6:50 p. n. chestra; 8, Columbia chain.

WGR Buffalo, N. Y. (302.8m.990kc) 8.8:30

Hawaiian ensemble; 9, WEAF; 11:05, orches WHAZ Troy, N. Y. (379.5m.790kc) 7 p. m. program; 8:30, specialty program; 1. B. S. A. program; 8:30, specialty program; NHN New York, N. Y. (394.5m.760kc) 6:30 program; 12, Silver Slipper orchestra.

WHAR Atlantic City, N. J. (272.6m.1100kc) B. m. book talk; 8, evening concert.

WJAX Jacksonville, Fla. (336.9m.890kc) 8 p. m. plnony orchestra; 11, organ.

WJR-WCX Detroit, Mich (440.9m.680kc) 7:30 9, Ford and Glenn; 9:30, studio program; dance music.

MIT Now York N. Y. (454.2m.660kc) 7 p. m.

WTAG Worcester, Mass. (516.9m-580kc) 8 p. m. program. WTAM Cleveland, Obio (399.8m-750kc) 6 p. m. orchestra; 7, orgau; 9, WEAF; 10, studio program; 11:30,

tra; 7, organ; 9, WEAF; 10, studio program; 11:30, organ.
WTIC Hartford, Conn. (535.4m-560kc) 6 p. m. propram; 7, New Departure orchestra; 7:30, WEAF; 8:30, WEAF; 10:30, orchestra; WWJ Detroit, Mich. (352.7m-850kc) 5 p. m. dinner concert; 7:30-10, WEAF.
WWNC Asheville, N. C. (296.9m-1010kc) 7 p. m. dinner music; 8:45, entertainers; 10, theater frolic.
Central Time Stations
KFAB Lincoln, Neb. (309.1m-970kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:30-10:30, orchestra; 8:KM Shenandoah, lowa (394.8m-760kc) 6 p. m. trio; 7, music; 8, Dixie girls.
KPRC Houston, Texas (296.9m-1010kc) 7:30-9:30 p. m. studio coucert.
KSD St. Louis, Mo. (545.1m-550kc) 9:30-10:30 p. m. music.
SO Clarinda, la. (227.1m-1320kc) 7:30 p. m. or-MUSIC. KSO Clarinda, la. (227.1m-1320kc) 7:30 p. m. orchestra, KTHS Hot Springs National Park, Ark, (384.4m-780kc) 8:30 p. m. feature program, WBAP Ft. Worth, Tex. (499.7m-600kc) 7:30-8:30 p. m. program; 9:30-10:30, band; 10:15-11, musi-

p. m. program; 9:30-10:30, band; 10:15-11, musi-cale; 11 fileater. St. Paul, Minn. (405.2m-740kc) VCC Minneapolis-St. Paul, Minn. (405.2m-740kc) 70 m dinner concert. WCCA Pensacola, Fla. (249.9m-1200kc) 8 p. m. pro-

gram.

WDAF Kansas City, Mo. (370.2m-810kc) 6 p. m. school of the air; 7:30-9:30 p. m., WEAF;:11:45-1, Nighthawk frolic.

WDOD Chattanooga, Tenn. (245.8m-1220kc) 7-8 p. m. dinuer hour; 9. studio program: 10, popular music.

WFAA Dallas, Tex. (493.7m-600kc) 6:30-7:30 p. m. feature program; 8:30-9:30, feature.

WHB Kansas City, Mo. (336.9m-890kc) 7-8 p. m. musicale; 8-9.

wHiO Des Moines, Iowa (535.4m-560kc) 6:30 p. m. musi-cale: 8-9. Moines, Iowa (535.4m-560kc) 6:30 p. m. orchestra: 9:30, dance orchestra: 11, organ. WOC Davenport, Ia. (374.8m-800kc) 7:30 p. m. time; 7:30, WEAF; 8:30, organ. WOW Omaha, Nebr. (508.2m-590kc) 6:30 p. m. musi-cal; 8:30, orchestra. WSB Atlanta, Ga. (475.9m-630kc) 6:30 p. m. WJZ; 8, farm program; 10:45, artists. WSM Nashville, Tenn. (340.7m-880kc) 6:30 p. m. WJZ; 8, music.

WSM Nashville, Tenn. (340.7m-880kc) 6:30 p. m. WJZ; 8, music, WSMB New Orleans, La. (322.4m-930kc) 8:30-10:30 p. m. Sunday South syncopators, theater orchestras, Billy Broussard, Louis Boyer, popular songsters. WTMJ Milwaukee, Wis. (293.9m-1020kc) 6:30 p. m. WJZ; 8, WEAF; 9, WEAF; 10:30, program, Mountain Standard Time Stations KOA Denver, Colo. (325.9m-920kc) 8 p. m. Scheurman's Colorado orchestra; 8:15, studio program, Pacific Standard Time Stations

Missic, 3-9, orange fictions, 10, program, KFOA Seattle, Wash, (447.5m-670kc) 7:15 p. m. news; 8, orange chain.

KFRC San Francisco, Calif. (454m-660kc) 6:30 p. m. Cecilians; 8, Jamboree; 10, frolic.

KFWB Hollywood, Calif. (361.2m-830kc) 6-7 p. m. dinner hour; 8-9, program; 9-10, program; 10-11, frolic.

Stanislas Bern's Little symphony; 8-9, orange net-KGO Oakland, Calit, (384.4m-rsvsc) b-0:55 p. m. Stanislas Bem's Little symphony; 8-9, orange network; 9, book chat, KGW Portland, Ore. (491.5m-610kc) 8, National Broadcasting company; 9-10, concert, KJR Seattle, Wash, (348.6m-860kc) 6:30 p. m. dinner hour; 7-10, studio program, KLX Oakland, Calif. (508.2m-590kc) 8-9 p. m. studio program; 9-10, Lake Merritt Ducks, KNX Hollywood, Calif. (336.5m-890kc) 7:30 p. m. playlet; 8, program; 9, leature; 10, feature; 11, frolic.

frolic.

KPO San Francisco, Calif. (422.3m-710kc) 6:30-7 p. n.
States Restaurant orchestra; 7-7:30, Rudy Seiger's
Fairmont hotel concert orchestra; 8-9, orange chain;
9-10, studio program; 10-11, program.

Monday, silent night for: KFDM, KHJ, KLDS, KYW, WBBM, WBCN, WCBD, WCFL, WEBH, WENR, WFI, WGBS, WGN, WHT, WIBO, WIP, WJAZ, WJJD, WLIB, WLS, WMAQ, WMBB, WOAI, WOK, WORD, WQJ, WSAI.

#### TUESDAY, OCTOBER 4 Headliners

THEACHIMETS

TO Central Mountain Pacific

130 p.m. 6:30

10 (405.2m-740kc) "F and R Family."

4379.5m-790kc) Outdoor talk, Jud Landon.

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4:45 8 (545.3m-660kc), WBZ (333.1m-900kc), KDKA (315.9m-950kc), KYW (526m-570kc), Stromberg-Carlson hour, 8:15 6:15 5:15
WIP (508.2m-590kc) Contralto solos by Dorothy Royal King, 7:30 6:30 5:30

(344.6m-870ke) Don Malin, "Personalities in

(475.9m-630kc) Jolly Buckeye Bakers. (475.9m-630kc) Rollo Around the World. (535.4m-560kc) Rollo G.45 (384.4m-780kc) Mrs. Boyd Goodwin, so-WIP (508.2m-590kc) Recital; Nelson A. Chesnutt,

9 8 7 6 KMA (394.5m-760kc) Dixie Girls; jubilee singers. WCBD (344.6m-870kc) Eleanor and Esther Har-KMA (394.5m.-760kc) Dixie Girls; jubilee singers. WCBD (344.6m.870kc) Eleanor and Esther Harwood, songs.

WGBF (236.1m.1270kc) Hartmetz Banjo Boys.
9:15 8:15 7:15 6:15

WIP (508.2m.590kc) Otto Meyer, violinist.
9:30 7:30 7:30 6:30

WFAA (499.7m.-600kc) Dallas musicians, directed by Dr. G. Havden Jones.

WMBB (252m.-1190kc) Vin Lindhe; Hugh Aspin-wall; popular program.
8 7

KFI (468.5m.-640kc) Eva Olivotti, soprano.
WBBM (389.4m.-770kc) Unice Zorn; Floyde Falch, WHO (535.4m.-560kc) Capital Theatre artists.
10:30 8:30 7:30

WIP (508.2m.-590kc) Nat Lanin and his Devon Park Hotel orchestra.
11 (9 8

KFI (468.5m.-640kc) Vlado Kolitsch, violinist, WIBO (416.4m.-720kc), Edgewater Glee Club.
12 mid.
11 (10 9

KGO (384.4m-780kc), KFI (468.5m.-640kc), KPO (422.3m.-710kc), KGW (491.5m.-640kc), KOMO (305.9m.-980kc) Eveready hour.
1 a.m.
12 11

KGO (384.4m.-780kc), KFI (468.5m.-640kc), KPO (422.3m.-710kc), KGW (491.5m.-640kc), KPO (422.3m.-710kc), KGW (491.5m.-640kc), KOMO (305.9m.-980kc) Vagabonds in New Orleans.

#### Regular Tuesday Features

Eastern Time Stations

KDKA Pittsburgh, Pa. (315.6m-950kc) 7:30-11 p. m.

WIZ; 11:35, Grand theater.

KYW Chicago, III. (526m-570kc) 7-9 p. m. WJZ; 9, classical; 10:30-11:55, program.

WBAL, Baltimore, Md. (285.5m-1050kc) 6:30-7:30 p. m., dinner music; 7:30, quartet; 8, WJZ; 9, WJZ.

WBZ Springfield, Mass. (333.1m-900kc) 7:03, orchestra; 7:30, ensemble; 8, WJZ; 9, WJZ; 10, musicale; 10:30, dance music.

WBZ Springfield, Mass. (333.1m-900kc) 7:03, orchestra; 7:30, ensemble; 8, WJZ; 9, WJZ; 10, musicale; 10:30, dance music.

WCAE Pittsburgh, Pa. (516.9m-560kc) 6 p. m. dinner concert; 8, musicale; 9, WEAF; 12, dance music.

WCSH Portland, Me. (361.2m-830kc) 8 p. m. Strand theater; 9, WEAF; 12, Lions Club,

WEAF New York, N. Y. (491.5m-610kc) 9, Eveready hour, WEEL, WJAR, WGR, WFI, WRC, WCAE, WTAM, WWI, WSAI, WGN, KSD, WOCCO, WGY, WHAS, WSM, WSR, WMC, WDAF; 10, Cavalcade, WGR, WFI, WRCSH, WCAE, WTAM, WWI, WGY, WTMI, WILAS, WDAF, WSAI, WTIC; 11, ochestra, WRC, WWJ, WFI, WEEL Boston, Mass. (447.5m-670kc) 7:30 p. m. nusicale; 9 WEAF; 10, cruising (the air, WFI, Philadelphia, Pa. (405.2m-740kc) 6:30 p. m. orchestra; 8:30, WEAF.

WGHP Detroit, Mich. (319m-940kc) 8-10 p. m., mu-Sicale,
WGR Buffalo, N. Y. (302.8m-990kc) 6:30 p. m. ororchestra; 7:45, science news; 8:11, WEAF,
WGY Schenectady, N. Y. (379.5m-790kc) 7:45 p. m.
musicale; 8, Beech-Nut program; 9, WEAF; 10,
WFAF

musicale; 8, Beecn-Nut program, 7, 122, WEAF, WEAF, WHAR Atlantic City, N. J. (272.5m-1100kc) 7:45 p. m. book talk; 8-9, evening concert. WHK Cleveland, O. (265.3m-1130kc) 6:30 p. m. program; 9, musicale; 10, orchestra. WIP Philadelphia, Pa. (508.2m-590kc) 8 p. m. recital; 10, weekly movie; 10:30, orchestra WJAX Jacksonville, Fla. (336.9m-890kc) 8 p. m., Just Florida Folks; 9, recital; 9:30, dance music; 10, dance music; 10, dance music.

Florida Foiks, 9, 18ctar, 400, 18ctar, 400,

KDKA, KYW, WBAL, WJR; 10, artists; 10:30, orchestra.

WKRC Cincinnati, O. (333.1m-900kc) 6 p. m. organ; 9, dance program; 11, entertainers.

WLW Cincinnati, Ohio (428.3m-700kc) 7:30 p. m. organ; 9, Formica concert; 10:35, dance music.

WMAK Buffalo, N. Y. (545.1m-550kc) 6:15 p. m. movie club; 8, theater program; 10, program.

WMCA New York, N. Y. (370.2m-810kc) 6:25 p. m. baseball; 6:30, orchestra; 10, Italian hour of song; 11, Hotel McAlpin orchestra.

WOR New York, N. Y. (422.3m-710kc) 6:15 p. m. children's hour; 6:30-11:30, program; 11:30, news; children's hour, 0.30-11.05, problem.
11:35, dance orchestra.
WPG Atlantic City, N. J. (272.6m-1100kc) 7:10 p. m.
organ; 9:35, concert; 10:30, Marcele duo; 11, dance organ; 9:35, concert; 10:30, Marcele duo; 11, dance orchestra; 12, organ. WRC Washington, D. C. (468.5m-640kc) 6-12 mid. WRC Washington, D. C. (338-330kc) 7 p. m. orchestra; 8, WEAF; 10, program.
WSEA Norfolk, Va. (263m-1140kc) 7 p. m. dinner concert; 8:30, musicale; 10, dance music.
WTAG Worcester, Mass. (516.9m-580kc) 8:05 p. m.

witadi wortesies, studio program; studio program; WTAM Cleveland, Ohio (399.8m-750kc) 6 p. m. State theater vaudeville program; 7, orchestra; 8, WEAF; 9, program; 9:30, WEAF; 10, Neapolitans; 11, 9, program; 9:30, WEAF, orchestra. WIIC Hartford, Conn. (535.4m-560kc) 6:30 p. m. WIIC Hartford, WEAF; 9:30, Harmony Bells;

Anvileers; 7:30, WEAF; 9:30, Harmony Bells; 10:30, orchestra.

WWJ Detroit, Mich. (352.7m-850kc) 6 p. m. dinner concert; 8, WEAF;

WWNC Asheville, N. C. (296.9m-1010kc) 7 p. m. dinner music ville.

#### Central Time Stations

KMA Shenandoah, la. (394.5m-760kc) 6 p. m. talk; 7, Twins; 8, Dixie Girls.

KPRC Houston, Texas (296.9m-1010kc) 7:30-9:30 p. m. studio concert.

KSD St. Louis, Mo. (545.1m-550kc) 7-9 p. m. musicale KTHS Hot Springs National Park, Ark. (384.4m-780kc) 8 p. m. program,

KYW Chicago, III. (528m-570kc) 6:32-7 p. m. dinner program: 7, WJZ; 8, WJZ; 9-10:55, musicale, WBAP Ft. Worth, Tex. (499.7m-600kc) 7:30-8:30 p. m. musicale; 9:30-11, program.
WBBM Chicago, III. (389.4m-770kc) 7-10 p. m. program, 10, minstrel, WBCN Chicago, III. (288.3m-1040kc) 7 p. m, popular program. wcBD Zion City, Ill. (344.6m-870kc) 8 p. m. chorus, celestial bells.

WCCO Minneapolis-St. Paul, Minn. (405.2m-740kc)
7 p. m. WEAF; 8:30, musicale; 9:30, musical pro-7 p. m. wEAF, 6.50, husicale, 7-80, husicale, 7-80, musicale, 7-80, musicale, 7-80, wEAF, 9, program; 11:45-1, Nighthawk frolic, WDOD Chattanooga, Tenn. (245.5m-1220kc) 7-10 p. m., musicale, WEBH Chicago, Ill. (365.6m-820kc) 7-8 p. m. orchestra, artists; 9-11, Uptown theater stage prechestra, artists; 9-11, Uptown theater stage presentation.
WENR Chicago, Ill. (288.3m-1040kc) 6 p. m. organ; 8, classical program; 9:30, popular program, WFAA Dallas, Tex. (499.7m-600kc) 6:30 p. m. talk; 8:30, musicale; 11-12, theater hour.
WGN Chicago, Ill. (305.9m-980kc) 6:10 p. m. Punch and Judy; 6:50, old fashioned almanack; 8, WEAF; 9, musicale; 9:30, recital; 10, Sam 'n', Henry; 10:20, musica box; 10:20, musicale; 10:50, concert.
WHAS Louisville, Ky. (461.3m-650kc) 7:30 p. m. music; 8-10, WEAF.

WHB Kansas City, Mo. (336.9m-890kc) 7 p. m. din-ner concert: 8, evening concert.

WHO Des Moines, lowa (535.4m-560kc) 6:30 p. m. orchestra; 8:30, string trio.



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6 tube

WHT Chicago, III. (416.4m-720kc) 7-10 p. m. program; 11-1 a. m., popular program.
WIBO Chicago, III. (416.4m-720kc) 6-7 p. m. program; 10-11 popular WIBO Chicago, III. (416.4m-720kc) 6-7 p. m. program; 10-11, popular.

WJAZ Chicago, III. (263m-1140kc) 7 p. m. orchestra; 9, studio program.

WJD Chicago, III. (365.6m-820kc) 8-9 p. m. Mooseheart hour; 11-1, Palmer House Victorians; Carroll and Grady.

WLAC Nashville, Tenn. (226m-1330kc) 9 p. m. soprano; 10, studio program.

WLB Chicago, III. (306m-980kc) 7 p. m. dinner concert; 11-12:15, frolic.

WLS Chicago, III. (344.6m-870kc) 6:30 p. m. orchestra; 7:20, Duo; 7:30, Don Malin, 7:20, Duo; 7:30, Malin, 7:20, Duo; 7:30, Don Malin, 7:20, Duo; 7:30, Don Malin, 9, m. orchestra; 8, program, 12, popular program.

WAA San Antonio, Tex. (302.8m-980kc) 8:30 p. m. WOC Davenport, In. (374.8m-800kc) 8 p. m. WEAF; WOC Davenport, Ia. (374.8m-800kc) 8 p. m. WEAF; 9, musicale.
WOW, Omaha, Nebr. (508.2m-590kc) 6 p. m. classical program; 6:50, Randall's Royal Fontenelle orchestra; 9, popular and old time music.
WSB Atlanta, Ga. (475.9m-630kc) 7 p. m. WEAF; 8, WEAF; 10:45, orchestra.
WSBC Chicago, III. (232.4m-1290kc) 5-7 p. m. Hugh Swift and his Serenaders; dinner concert; 9:30-1, popular program.
WSM Nashville, Tenn. (340.7m-880kc) 7:15-8 p. m. dinner concert; 8, WEAF; 9, program.
WTMJ Milwaukee, Wis. (293.9m-1020kc) 7-12 mid., program.

Mountain Standard Time Stations
A Denver, Colo. (325.9m-920kc) 7:30 p. m. iarm

Mountain Standard 11nte Stations
KOA Denver, Colo. (325.9m-920kc) 7:30 p. m. farm
question box.

Pacific Standard Time Stations
KFI Los Angeles, Calif. (468.5m-640kc) 7-8 p. m.
serenaders; 8-9, program; 9-10, orange network;
10-11, dance orchestra.
KFWD Hollywood, Calif. (361.2m-830kc) 6-7 p. m.
dinner hour; 8-9, studio program; 9-10 p. m. musicale; 10-11 p. m. Rainbow hour,
KGO Oakland, Calif. (384.4m-780kc) 6-6:55 p. m.
Stanislas Bem's Little symphony; 8-9, Pilgrims;
9-10, National Broadcasting Company; 10, vag:
bonds, N. B. C.
KGW Portland, Ore, (491.5m-610kc) 8-9 p. m., educational program; 9, National Broadcasting Company; 10, orchestra.

KHJ Los Angeles, Calif. (405.2m-740kc) 6:30-7:30

pany; 10, orchestra,

KHJ Los Angeles, Calif. (405.2m-740kc) 6:30-7:30 p. m. children's hour; 8-10, new artists.

KJR Seattle, Wash. (348.6m-860kc) 8 p. m. studio program; 10-11, orchestra,

KNX Hollywood, Calif. (336.9m-890kc) 8 p. m. program; 9:30, musicale; 10, frolic, KPO Los Angeles, Calif. (422.3m-710kc) 7-7:30 p. m. orchestra; 8-9, Fireside hour; 9-10, orange chain; 10-11, orchestra.

Tuesday, silent night for: CFCA, KFH, KLX, WLIT, WOS, WSMB, WTAG.

#### WEDNESDAY, OCTOBER 5

Eastern Central Mountain Pacific 7 p.m. 6 5 WTIC (535.4m-560kc) Bryant and Chapman Early Birds. 7:45 WIBO (416.4m-720kc) Bernice Ozmun, "Arabic Love Songs." 8 7 8 5 SWJZ (454.3m-660kc) WBZ (333.1m-900kc), KDKA (315.9m-950kc), KYW (526m-570kc), Sylvania

(S15.911-950ke), KYW (\$26in-570ke), Sylvani Foresters. 7:30 6:30 5:30 WHAS (461.3n-650kc) Myer Green, violinist. WLS (344.6m-870ke) Oriental male quartet. 9 0 KWBM (389.4m-770kc) National male quartet. WOR, Newark, N. I. WOR (422.3m-710ke), WEAN (319m-940ke) WMAC (352.7m-850kc) WFBI. (258.5m-1160kc) WMAK (545.1m-550kc), WCAU (277.5m-1980kc) WJAS (270.1m-1110kc), WADC (296.9m-1910kc) WAIU (282.8in-1060kc), WKRC (333.1m-900ke)

WGHP (319m-940kc), WMAQ (447.5m-670kc), KOIL (277.6m-1080kc), KMOX (299.8m-1000kc), WOWO (228.9m-1310kc), WCAO (384.4m-780kc), Columbia chain, 9:10 7:10 6:10 WRVA (254.1m-1180kc) Mrs. Herbert Powell, soprano.

9:30 8:30 7:30 6:30 WHAS (461.3m-650kc) Virginia Vetter's enter-

who (535.4m-550kc) Kate Miller, whistler.

10 9 8 7

WOR. Newark, N. J.

WOR (422.3m-710kc), WEAN (319m-940kc),
WNAC (352.7m-850kc), WFBL (258.5m-1160kc),
WMAK (545.1m-550kc), WCAU (277.6m-1080kc),
WIAS (270.1m-1110kc), WADC (266.9m-1010kc),
WAIU (282.8m-1060kc), WRRC (333.1m-900kc),
WGHP (319m-940kc), WMAQ (447.5m-670kc),
KOIL (277.6m-1080kc), KMOX (299.8m-1000kc),
WOWO (228.9m-1310kc), WCAO (384.4m-780kc),
Columbia chain.

WOWO (228, 918-1310sc), Well (co. 1.1. 128-15), Columbia chain.
WRVA (254,11180sc) 20th Century club.
10:30 9:30 8:30 7:30
WCCO (405,2m-740lsc) Thelma Cummins, reader;
Yone Kishi, whistler.
WIAF (370,2m-810sc) Cavaliers.
WIO (535,4m-550sc) Royal American saxophone

sextette.
WSM (340.7m-880kc) Second Anniversary celebration; irolic.

tion; trolic.

1 10 9 8

KFI (468.5m-640kc) Scotch program.

12 mid. 11 10 9

KGO (384.4m-780kc), KFI (468.5m-640kc), KPO (422.3m-710kc), KGW (491.5m-610kc), KOMO (305.9m-980kc) Retold tales, "The Young Man With the Cream Tarts."

#### Regular Wednesday Features Eastern Time Stations

Eastern 1 ime Stations

KDKA Pittsburgh, Pa. (315.6m-950kc) 7:30 p. m. program; 8, WJZ; 9, WJZ.

WBAL Baltimore, Md. (285.5m-1050kc) 7:30-8:30 p. m. vocal recital; 8:30, recital; 9, WJZ.

WBZ Springfield, Mass. (333.1m-900kc) 6:30 p. m. ensemble; 8, WJZ; 8:30, tro; 9, WJZ; 10, artists;

ensemble; 8, W.L.; 8:30, U10, 7, W.L., 10, article, 10:30, orchestra.

WCAE Pittsburgh, Pa. (516.9m-580kc) 6 p. m. dinner concert; 8, program; 9, WEAF; 11, orchestra.

WCAU Philadelphia, Pa. (336.9m-890kc) 7 p. m. program; 9:30, musicale; 10, orchestra; 11, Cheer-up dith.

gram; 9:30, musicale; 10, orchestra; 11, Cheer-up club, WCSH Portland, Me. (361.2m-830kc) 8 p. m. WEAF. WEAF New York, N. Y. (491.5m-610kc) 7:30 p. m. South Sea Islanders, WTAG; 8:30, organ masters, WEE, WLIT, WCRC; 9, time, WEEI, WIAR, WRC, WLIT, WCAE, WTAM, WWJ, WSAI, KSD, WGY; 9, 1pana Troubadours, WEEI, WGR, WRC, WCAE, WVJ, WLIB, KSD, WCOC, WGY; 9:30, Goodrich Silvertown Cord orchestra, WEEI, WIAR, WTAG, WGR, WCSH, WCAE, WTAM, WJ, WSAI, WGN, KSD, WOC, WCCO, WHAS, WSM, WSAI, WGN, KSD, WOC, WCCO, WHAS, WSM, WSB, WMC, WLIT, WDAF; 10:30, orchestra, WEEI Boston, Mass, (447.5m-670kc) 8 p. m. program; 8:30, WEAF; 10:30, cruising the air. WFI Philadelphia, Pa. (405.2m-740kc) 7:15 p. m questions; 8:30-11:30, WEAF. WFLA Clearwater, Fla. (365.5m-820kc) 8:30 p. m. open house; 9:45, dance program. WGBS New York, N. Y. (348.6m-860kc) 6:45 p. m. entertainers.

entertainers.

WGHP Detroit, Mich. (319m-940kc) 6 p. m. dinner concert; 8, Columbia chain.

WGR Buffalo, N. Y. (302.8m-990kc) 7:45 p. m. piano lessons; 8, orchestra; 9, WEAF; 11:05-12 mid., music. lessons; 8, orchestra, 9, wear, 4, 100 music.

WGY Schenectady, N. Y. (379.5m-790kc) 8:30, WEAF; 9:30, Mandoliers; 10, studio program.

WJAX Jacksonville, Fla. (336.9m-890kc) 8, WJZ; 9, recital; 10, dance orchestra.

WHN New York, N. Y. (394.5m-760kc) 6:30 p. m. orchestra; 11:30, Silver Slipper orchestra.

WJR-WCX Detroit, Mich. (440.9m-680kc) 7 p. m. travel hour; 9, dance orchestra; 10:15, song review.

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15 Lambdin Kay, "Little Colonel" of WSB
16 Leo Fitzpatrick, "Merry Old Chief," WJR
17 Henry Field, 1925 Gold Cup runner-up
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18 Earl E. May, 1926 Gold Cup announcer

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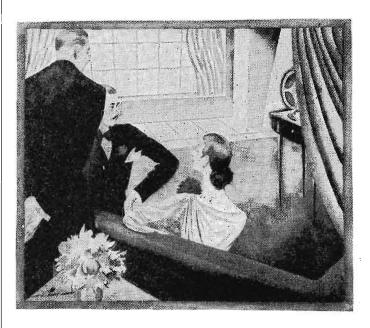
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WEAF-New York WJAR-Providence WEEI-Boston WFI-Philadelphia WGR-Buffalo WCAE-Pittsburgh WSAI-Cincinnati WTAM-Cleveland WWJ-Detroit WGN-Chicago WOC-Davenport WCCO \{\frac{Minneapolis}{St. Paul}}{KSD-St. Louis} WDAF-Kansas City WRC-Washington WGY-Schenectady WHAS-Louisville WSB-Atlanta WSM-Nashville WMC-Memphis

Pacific Coast Stations-9 P. M., Pacific Standard Time

KPO-KGO-San Francisco KFOA-KOMO-Seattle KFI-Los Angeles KGW-Portland



The air is full of things you shouldn't miss

WJZ New York, N. Y. (454.2m-660kc) 6 p. in. orchestra; 8, Foresters, WBZ, KDKA, KYW; 8:30, Davis Saxophone sextet; 9, Maxwell House hour, WBZ, RJKA, KYW; WBAL, WJR, WLW, WHAS, WSB, WMC, WSM, WJAX, WTMJ, WBT; 10, to be announced; 10:30, orchestra.
WLIT Philadelphia, Pa. (405.2m-740kc) 8 p. m. WEAR; 8:30, WEAR; 9:02, Stanley theater; 10, orchestra; 10:30, WEAF; WLW Cincinnati, Ohio (428.3m-700kc) 7:30 p. m. farm radio council talk; 8, program; 10, trio; 11, organist. organist.

WMAK Buffalo, N. Y. (545.1m-550kc) 6:15 p. m. dinner music; 8, band; 9, studio program.

WMCA New York, N. Y. (370.2m-810kc) 6:30 p. m. orchestra; 10, musicale; 12:30, frolic club.

WMSG New York, N. Y. (236m-1270kc) 9-11:30 p. m. program.

WNAC Boston, Mass. (352.7m-850kc) 7:30-10 p. m. WNAC Boston, Mass, (352.7m-850kc) 7:30-10 p. m. program.
WOO Philadelphia, Pa. (508.2m-590kc) 7:30 p. m. musicale; 8:30, music; 9:25, orchestra.
WOR Newark, N. J. (422.3m-710kc) 6:15-11 p. m. program; 11, orchestra.
WOR Newark, N. J. (422.3m-710kc) 6:15-11 p. m. program; 11, orchestra.
WPG Atlantic City, N. J. (272.5m-1100kc) 7:05 p. m. dinner music; 7:35, minstrels; 9:10, studio program; 10, band; 10, marine studio; 11:30, organ.
WRC Washington, D. C. (468.5m-640kc) 7:30-11, WEAF.
WRVA Richmond, Va. (254.1m-1180kc) 8 p. m. musiciale. cale.
WSAI Cincinnati, Ohio (361.2m-830kc) 8:01 p. m.
program; 10, orchestra,
WSBC Chicago, III. (232.4m-1290kc) 5-7 p. m. Hugh
Swift and his Serenaders; dinner concert; 9:30-1, Swift and his Scienaucis, daniel propular program.

WSEA Norfolk, Va. (263m-1140kc) 7 p. m. dinner concert: 10, dance music.

WTAG Worcester, Mass. (516.9m-580kc) 7:30 p. m. WEAF; 8, musicale: 9, program; 9:30, WEAF; 10:30 dance orhestra. WEAF; 8, musicale: 9, program; 9:30, WEAF; 10:30, dance orchestra.
WTAM Cleveland, 0. (399.8m-750kc) 6 p. m. orchestra; 7, talks; 8, studio recital; 8:30, WEAF; 10:30, studio program; 11, orchestra.
WTIC Hartford, Conn. (535.4m-560kc) 7-11 p. m. pro-

wWJ Detroit, Mich. (352.7m-850kc) 6 p. m. dinner concert; 7:30, musicale; 8, WEAF; 9, WEAF. WWNC Asheville, N. C. (296.9m-1010kc) 7 p. m. dinner music.

Central Standard Time Stations

KFAB Lincoln Nebr. (309.1m-970kc) 5:30-6:30 p. m. dinner concert; 8:30-11, orchestra.

KMA Shenandoah, Ia. (394.5m-760kc) 8 p. m. program. KPRC Houston, Tex. (296.9m-1010kc) 7:30 p. m. Jack Willrich's dance orchestra. 7 p. m. WEAF. KSD St. Louis, Mo. (545.1m-550kc) 7 p. m. WEAF. KTHS Hot Springs, Ark. (334.4m-780kc) 8:30 p. m. chamber music; 9:30. frolic. KYW Chicago, Ill. (526m-570kc) 7-7:30 p. m. WJZ; 7:30-8, nusicale; 8, WJZ; 9, program; 10:32, Concepts of the child of the c 7:30-8, musicale; 8, WJZ; 9, program; 10:32, Congress carnival,
WBBM Chicago, III. (389.4m-770kc) 7 p. m. dinner concert; 8-11, popular program.
WCCO Minneapolls-St. Paul, Minn. (405.2m-740kc)
8 p. m. WEAF;
WCOA Pensacola, Fla. (249.9m-1200kc) 8 p. m. program. wDAF Kansas City, Mo. (370.2m-810kc) 7:30-9:30 p. m. WEAF; 9:30, Cavaliers; 11:45-1 a. m., Nightp. nt. WEAF; 9:50, Cavanets, 22-52 hawk frolic.
WDOD Chattanooga, Tenn. (245.8m-1220kc) 7-10 p. m. WEBH Chicago, Ill. (365.6m-820kc) 7 p. m., WEAF; 7:30, orchestra; 9-11, program; 12, revue.

WGN Chicago, Ill. (305.9m-980kc) 8:30 p. m., WEAF; 9:30, musicale; 10: "30 m. Henry"; 10:10, Music Box; 10:20, musicale; 10:30, musicale, 10:30, p. m., program; 8, WEAF; 8:30, concert.

WHB Kansas City, Mo. (336.9m-890kc) 7-8 p. m. string trio. WHIB Kansas City, Mc. String tro. String t gram.

WIBO Chicago, III. (416.4m-720kc) 6-7 p. m.; 10-11.

WJJD Chicago, III. (365.6m-820kc) 8-9 p. m. children's musical hour; 11-12. Victorians.

WLAC Nashville, Tenn. (226m-1330kc) 7 p. m. classical program; 8, popular music.

WLIB Chicago, III. (360m-980kc) 7-8 p. m. string

WLAC Nashville, Tenn. (226m-1330kc) 7 p. m. classical program; 8, popular minste.

WLIB Chicago, Ill. (360m-980kc) 7-30 p. m. string quintet.

WLS Chicago, Ill. (344.6m-870kc) 7;30 p. m. orchestra: 8, choral music: 10-12. Haymakers.

WMAQ Chicago, Ill. (344.5m-670kc) 7 p. m. orchestra: 910, musicale: 12, popular program.

WOJ Chicago, Ill. (447.5m-670kc) 9:45-12, orchestra: 190, p. m. orchestra: 910, musicale: 12, popular program.

WOAI San Antonio, Tex. (302.8m-990kc) 8:30-9:30 p. m. Kelvinator hour.

WOC Davenport, Ia. (374.8m-800kc) 7:30 p. m. WEAF; 8:30, musicale.

WSA Mashville, Tenn. (340.7m-880kc) 7:30, organ; 8:30, WEAF.

WSM Nashville, Tenn. (340.7m-880kc) 7:15 p. m. dinner concert; 9, WEAF; 9:30, musicale.

WSMB New Orleans, La. (32.4m-930kc) 8:30-10:30 p. m. Public School of the Aair program; leatures.

WTMJ Milwaukee, Wis. (223.9m-1202kc) 7 p. m. WIZ; 8, band; 10, trio; 10:30, dance music.

Mountain Standard Time Stations

KOA Denver, Colo. (325.9m-920kc) 8 p. m. Scheuerman's Colorado orchestra: 8:15, studio program.

Pacific Standard Time Stations

KFI Los Angeles, Calif. (468.5m-640kc) 7:30 p. m. Nick Harris; 8-9, program, California Petroleum corp.; 9, orange network; 10, classic music.

KFWB Hollywood, Calif. (384.4m-780kc) 6-6:55 p. m. Stanislas Bem's Little Symphony; 8, vaudeville; 9, National Broadcasting company; 10, orchestra: 10-11, Rainbo orchestra: 10-11, Rainbo orchestra: 60-11, National Broadcasting company; 10, orchestra: 10-11, Rainbo orchestra: 10-10, National Broadcasting company; 10, orchestra: KJR Seattle, Wash, (348.6m-860kc) 6:30-7, 30 p. m. children's hour; 8:15-10, musicale.

KJR Osaland, Calif. (582.2m-590kc) 6:30-7 p. m. Athens Athletic club orchestra; 8-9, educational program; 10, topogram; 10, program; 1

Athens Athletic club orchestra; 8-9, educational program; 9-10, program.

KNX Hollywood, Calif. (336.9m-890kc) 7-10 p. in. features: 11, Hotel Ambassador.

KPO San Francisco, Calif. (422.3m-710kc) 6:30-7 p. m. States Restaurant orchestra; 7-7:30, Rudy Seiger's Fairmont hotel concert orchestra; 8-9, Atwater Kent artists; 9-10, orange network; 10-11, States Restaurant orchestra.

Wednesday, silent night for: WBAP, WCBD, WFAA, WFI, WGBF, WGBS, WIP, WOW, WRR.

#### THURSDAY, OCTOBER 6 Headliners

| Head liners | Eastern | Central | Mountain | Pacific | 5 p.m. | CFCA (357m-840kc) | dedication program, | Carillon at Memorial tower, U. of Toronto. | S | T | Carillon | S | Carillon 9 8 7 6
WCBD (344.6m-870kc) Brass quartet.
WCCO (405.2m-740kc) Portal Players in "Casino Gardens." oardens. 8:30 7:30 6:30
WBBM (389.4m-770kc) Doings of the Brown
Family.
WFAA (499.7m-600kc) Billie Noland, whistling
pianist. planist, 9 8 7

KTHS (384.4m-780kc) State contest finals in the Atwater Kent National Audition.

WGY (379.5m-790kc) Stuart Swart, planist, 10:05 9:05 8:05 7:05

WIP (508.2m-590kc) Schwab's Banjo Boys, 10:30 9:30 8:30 7:30

WCCO (405.2m-740kc) Selections from popular operas, 11 10 9 8 

11:45 10:45 9:45 8:45 WSB (475.9m-630kc) Organ recital, Dr. Chas. A. Sheldon,

Sheldon, 11 12 mid. 11 KGO (384.4m-780kc), KFI (468.5m-640kc), KPO (422.3m-710kc), KGW (491.5m-610kc), KOMO (305.9m-980kc), Ray Bailey string jazz or-chestra.

#### Regular Thursday Features

Eastern Time Stations
Pittsburgh, Pa. (315.6m-950kc) 7:30, sketch;
72; 9-11, WJZ.
Baltimore, Md. (285.5m-1050kc) 6:30 p. m.,
r orchestra; 7:30, musicale; 8, ensemble; 9, orchestra; dinner orchestra; 7:30, musicaie, o, chiachian, dance orchestra.

WBZ Springfield, Mass. (333.1m-900kc) 7:34 p. m. orchestra; 8, N. B. C.; 8:30, musicale; 10, orchestra, by the best of the strain of the st dance program.

WEAF New York, N. Y. (491.5m-610kc) 6-12 mid.
dinner music; Coward Comfort hour; Hoover Sentiuels; time; Cliquot Club Eskimos; Smith Broth-

tinels; time; Cliquot Club Eskimos; Smth Brotners.

WEEI Boston, Mass. (447.5m-670kc) 7:30 p. m. musicale; 9, WEAF; 10, WEAF; 11:05, weather.

WFI Philadelphia, Pa, (405.2m-740kc) 8 p. m. WEAF.

WGBS New York, N. Y. (348.6m-880kc) 7:30 p. m. orchestra; 8:50, program; 10:30, dance orchestra.

WGHP Detroit, Mich. (319m-940kc) 8 p. m., organ; 9, program; 9:30, orchestra.

WGR Buffalo, N. Y. (302.5m-990kc) 8-9 p. m. ensemble; 9:30, concert; 11:05, supper music.

WGY Schenectady, N. Y. (379.5m-790kc) 7:30 p. m.

story of America; 8, WEAF; 9, WEAF; 10, program; 11, WEAF; 11:30, organ.

WHAR Atlantic City, N. J. (272.6m-1100kc) 7:45
p. m. talk; 7:55, trio.

WHK Cleveland, Ohio (265.3m-1130kc) 6:30 p. m. dinner orchestra; 7:30, 1. B. S. A. program; 9:45, banjoists; 10, program, 1. B. S. A. program; 9:45, program; 12, Cotton club orchestra.

WHN New York, N. Y. (394.5m-760kc) 6:20-12 mid. program; 12, Cotton club orchestra.

WIP Philadelphia, Pa. (508.2m-590kc) 8 p. m. program; 11:05, orchestra.

WJAX Jacksonville, Fla. (336.9m-890kc) 8 p. m. markets.

gram; 11:05. orchestra.

WJAX Jacksonville, Fla. (336.9m-890kc) 8 p. m. markets.

WJR Detroit, Mich. (440.9m-680kc) 6:30 p. m. Petite symphony; 8, WJZ.; 11, orchestra.

WJZ New York, N. Y. (454.2m-660kc) 7 p. m. Bill Whipple of Sweet Meadows, WBZ, WRC; 7:15, orchestra; 8, R. C. A. Radiotrons, WBZ, KDKA, WEBH; 9, quartet, KDKA, KYW, WJR; 9:30, Spotlight hour, WJR, WOC, WTMJ, KYW, KDKA, WHAM; 10:30, orchestra.

WLW Cincinnati, Ohio (428.3m-700kc) 7 p. m. orchestra; 10, Crosley Cossacks; 11, Tommy and Irene.

WMAK Buffalo, N. Y. (545.1m-550kc) 6:30 p. m. orchestra; 10, Crosley Cossacks; 11, Tommy and Irene.

WMAK Buffalo, N. Y. (545.1m-550kc) 6:30 p. m. orchestra; 11, orchestra; 12, Broadway nite.

WCA New York, N. Y. (370.2m-810kc) 6:30 p. m. orchestra; 11, orchestra; 12, Broadway nite.

WOR Newark, N. J. (422.3m-710kc) 6:15 p. m. ensemble; 9, Columbia chain; 11, orchestra.

WPG Atlantic City, N. J. (272.5m-1100kc) 8:15 p. m. organ; 9:30, Breaking the Waves; 10, Movie broadcast; 11, orchestra; 11:30, dance orchestra.

WRC Washington, D. C. (468.5m-640kc) 7 p. m. WJZ; 8-11, WEAF; 11, band.

WVA Richmond, Va. (254.1m-1180kc) 8 p. m. program; 11:30, Carry Me Back to Old Virginny, WSAI Cincinnati, Ohio (361.2m-830kc) 7 p. m. WEAF; 8:0), studio concert.

WEAF, 8:0), studio concert.

WEAF, 8:0), studio crecital; 10, orchestra.

WTAG Worcester, Mass. (516.3m-580kc) 8 p. m. travel talk; 9, WEAF; 10, WEAF.

WTAM Cleveland, Ohio (399.8m-750kc) 6:15 p. m. orchestra; 8, studio program; 11, orchestra. WTIC Hartford, Conn. (535.4m-560kc) 6:30 p. m. WEAF; 7, organ; 7:30, WEAF; 8:30, orchestra. WWJ DETROIT, Mich. (352.7m-850kc) 6 p. m. dinner concert; 8, WEAF, WWNC Asheville, N. C. (296.9m-1010kc) 7 p. m. dinner coucert; 8:30, talk; 9-11, program, Central Standard Time Stations KMA Shenandoah, 1a. (394.5m-760kc) 6 p. m. music; 8, Dixie Girls, KMMJ Clay Center, Nebr. (379.5m-790kc) 6 p. m. ensemble; 8, musicale; 9, organ, KOIL Council Buffs, 1a. (277.6m-1080kc) 6:03 p. m. Mona Motor Oil orchestra; 6:30, organ recital; 7:30, program; 11, orchestra. KPRC Houston, Tex. (296.9m-1010kc) 7:30-9:30 p. m. studio concert. KSD St. Louis, Mo. (545.1m-550kc) 6 p. m. WEAF. KTHS Hot Swrings National Paul. studio concert. KSD St. Louis, Mo. (545.1m-550kc) 6 p. m. WEAF. KTHS Hot Springs National Park, Ark. (384.4m-780kc) 8:30-9:30 p. m. feature program; 9:45, pro-

gram,
KYW Chicago, Ill. (526m-570kc) 7-8 p. m. program;
8-9:30, WJZ; 9:30, program; 10:32, Congress carnival.

WBAP Ft. Worth, Tex. (499.7m-600kc) 7:30-8:30
p. m. musicale: 9:30-11, musical comedy program,
Royal orchestra; 11-12, John Josey, organist.

WBBM Chicago, III. (389.4m-770kc) 7-11 p. m. pro-

WBCN Chicago, Ill. (288.3m-1040kc) 7 p. m. program.

WCBD Zion, Ili. (344.6m-870kc) 8 p. m. Cornet quartet, vocal solos, trio.

WCCO Minneapolis-St. Paul, Minn. (405.2m-740kc) 7-30 n. program.

WCCO Minneapolis-St. Paul, Minn. (405.2m-740kc) 7:30 p. m. program. WCFL Chicago, Ill. (483.6m-620kc) 6 p. m. labor hour; 7, trio; 8, classical husic; 8-12, popular hour. WDAF Kansas City, Mo. (370.2m-810kc) 6 p. in. School of the Air; 7:30, WEAF; 11:45-1, Nighthawk frolic.



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Do not confuse this new, advanced type "B" unit, with chemical rectifier types or with cheap eliminators having only a single filter choke or employing short lived single paper filter condensers. The Cloverleaf Lifetime "B" is all that its name implies, It is the true lifetime unit; good for long years of dependable service, even under heavy load. Only the very finest quality materials go into the Cloverleaf Lifetime "B"—twooversize filter chokes—the very finest grade high voltage heavy duty filter condensers that money can buy—the best, longest lived, newest type of thoroughly dependable wire-wound voltage control resistances that experts could design. Every part, every bit of workmanship is the best. Yet, the Cloverleaf Lifetime, high voltage "B" costs only half what others of equal capability costyou.

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Town

10-11 WJAZ Chicago, III. (263m-1140kc) 9:30 p. m. studio WJJD Chicago, III. (365-6m-820kc) 8-9 p. m. children's bour; 11-12, Victorians, WLAC Nashville, Tenm. (226m-1330kc) 9 p. m. program; 10-11, orchestra. WLIB Chicago, III. (305.9m-980kc) 7 p. m. ensemble; 11-1 a. m. organ, WLS Chicago, III. (344.6m-870kc) 7:30 p. m. Supertone hour tone hour.

WMAQ Chicago, Ill. (447.5m-670kc) 8, orchestra; 9, program; 10, Chicago theater.

WOAI San Antonio, Tex. (302.8m-990kc) 8:30-9:30, R. C. A. hour.

WOC Davenport Ia. (374.8m-800kc) 8 p. m. WEAF; 9, musicale. 9, musicale. WOW Omaha, Nebr. (508.2m-590kc) 6:30 p. m. fretted instruments, Francis Potter; 9, classical. WQJ Chicago, Ill. (447.5m-670kc) 11:30 p. m. orches-WSB Atlanta, Ga. (475.9m-630kc) 8 p. m. musicale; Chicago, Ill. (232.4m~1290kc) 5-7 p. m., artists;

WSM Nashville, Tenn. (340.7m-880kc) 7:15 p. m., artists; WSM Nashville, Tenn. (340.7m-880kc) 7:15 p. m. program; 8, studio program; 10:30, pipe organ. WSMB New Orleans, La. (322.4m-930kc) 8:30-10:30 p. m. program.
WTMJ Milwaukee, Wis. (293.9m-1020kc) 7:30 p. m. WJZ; 8:30, program; 9:30-12, frolic. WTMJ Milwaukee, WIS. 1239.5III-1400AC, 7.00 p. M. WJZ; 8:30, program; 9:30-12, frolic.

Pacific Standard Time Stations

KFI Los Angeles, Calif. (468.5m-640kc) 7 p. m. oldtimers' program; 8, drama hour; 8:30, program;
9, orange network; 10, musicale.

KFOA Seattle, Wash. (447.5m-670kc) 7:30-8, program; 9-10. chain program.

KFWB Hollywood, Calif. (361.2m-830kc) 6-7 p. m.
dinner concert; 7:50, news; 8-9, features; 9-10, program; 10-11, frolics.

KGO Oakland, Calif. (384.4m-780kc) 6-6:55 p. m.
Stanislas Bem's Little symphony; 8, drama hour;
9-10, orange network; 10, orchestra KGO Oakland, Calif. (384.4m-780kc) 6-6:55 p. m.; Stanislas Bem's Little symphony; 8, drama hour; 9-10, orange network; 10, orchestra. KGW Portland, Orc. (491.5m-610kc) 6-7 p. m. dinner concert; 7:45-8, lecture; 8-9, vandeville; 9-12, National Broadcasting company; 10-12, dance band. KHJ Los Angeles, Calif. (405.2m-740kc) 6:30-7:30 p. m. children's hour; 8-10, string quartet, 10-11, Varsity Four. KJR Seattle, Wash. (348.6m-860kc) 6:30 p. m. dinner hour; 8-10, studio program. KNX Hollywood, Calif. (336.9m-890kc) 7 p. m. records; 8, program; 9-10, features; 11, Hotel Ambassador. ords; 8, program; 9-10, features; 11, Hotel Ambassador. KPO San Francisco, Calif. (422.3m-710kc) 6:30-7 p. m. States Restaurant orchestra; 7-7:30, Rudy Seiger's Fairmont hotel concert orchestra; 8-9, pro-gram; 9-10, music; 10-11, music.

Thursday, silent night for: KFAB, KLX, KOA, WDOD, WEAO, WEMC, WLIT, WOO, WOS, WOW.

#### FRIDAY, OCTOBER 7 Headliners

of Will J. Nicholson. 9
WGY (379.5m-790kc) WGY players.
WOR, Newark, N. J.
WOR (422.3m-710kc), WEAN (319m-940kc),
WNAC (352.7m-850kc) WFBL (258.5m-1160kc),
WMAK (545.1m-550kc), WFBL (258.5m-1160kc),
WMAK (545.1m-550kc), WADU (277.6m-1080kc),
WJAU (228.8m-1060kc), WAKC (333.1m-900kc),
WGHP (319m-940kc), WMAO (447.5m-670kc),
KOIL (277.6m-1080kc), KMOX (299.8m-1000kc),
WOWO (228.9m-1310kc), WCAO (384.4m-780kc),
Columbia chain.
9:30 8:30 7:30 6:30

9:30 8:30 7:30 6:30 WFAA (499.7m-600kc) William S. Lemly, Jr., tenor.
WIIO (33.4m-550kc) Radio's youngest bariton
WRVA (254.1m-1180kc) Edgeworth Party night.
9:35 7:35 6:35
WGIF (236.1m-1270) Troubadours.

9:35 8:35 7:35 6:35
WGBF (236.1m-1270) Troubadours.
10 9 8 N
WOR (422.3m-7.10kc), WEAN (319m-940kc), WNAC (352.7m-850kc), WFBL (258.5m-1160kc), WMAK (545.1m-550kc), WCAU (277.6m-1080kc), WAU (282.8m-1060kc), WKRC (333.1m-900kc), WAIU (282.8m-1060kc), WKRC (333.1m-900kc), WGHP (319m-940kc), KMAQ (447.5m-670kc), KOIL (277.6m-1080kc), KMOX (299.8m-1000kc), KOIL (277.6m-1080kc), KMOX (299.8m-1000kc), Columbia chain.
WSM (340.7m-880kc) State Audition Atwater Kent Foundation contest (hoys).
WTIC (535.4m-560kc) Katherine Moran Pape, soprano.

prano, 10:30 9:30 8:30 7:30 WLS (344.6m-870kc) Little Symphony "Pop" con-

10 9 8 (468.5m-640kc) Welsh Male Voice glee 
 singers.
 WIBO (416.4m-720kc)
 Luella
 Feiertag, concert coloratura soprano.

 1-15 a.m.
 1215
 11:15
 10:15

 WBBM (389.4m-770kc)
 Organ club.
 10:15
 10:15

#### Regular Friday Features

Eastern Time Stations

KDKA Pittsburgh, Pa. (315.6m-950kc) 8, WJZ; 8:30, WJZ; 11:30, dance program.

WBAL Baltimore, Md. (285.5m-1050kc) 7:30-8 p. m. recital; 8-9, ensemble; 9, dance orchestra; WBZ Springfield, Mass. (333.1m-900kc) 6:15 p. m. orchestra; 7:30, time; 8:30, WJZ; 9, WJZ; 10, orchestra; orchestra. WCAE Pittsburgh, Pa. (516.9m-580kc) 6 p. m. dinner concert; 8, WEAF; 10, program; 11, orchestra; 12, night club night clul.

WCAU Philadelphia, Pa. (336.9m-890kc) 7 p. m. orchestra; 10. Architects; 11, orchestra.

WCSH Portland, Me. (361.2m-830kc) 8 p. m. Treas-SH Fortland, Me. (301,2111-030Mc) 9 M. Musical re flunters, WTAG, N. Y. (491,5m-610kc) 9 Musical fluntures, WTAG, WLIT, WRC, KSD, WOC, VTIC; 9:30, La France orchestra, WGR, WLIT, VCAE, WTAM, WWJ, KSD, WOC, WDAF, KEBH; 10, Whittall Anglo-Persians, WEEL, JAR, WTAG, WGR, WLIT, WRC, WCAE, TAM, WWJ, WGN, KSD, WOC, WCCO, WDAF, (72,11) Cyclestra WTAM, WWJ, WGN, KSD, WGC, WCCO, WDRF, WGY: 11, orchestra. WEEI Boston, Mass. (447.5m-670kc) 7:30 p. m. Merry Milkmen: 8, WEAF; 9, Neupolitan Dutch Girls; 9:50, musicale; 10, cruising the air; 10:10, news; 10:15, organ.
WFLA Clearwater, Fla. (365.6m-820kc) 8:30 p. m. organ and artists; 9:45, dance program.
WGBS New York, N. Y. (348.6m-860kc) 6:30-7 p. m. orchestry. orchestra.

WGR Buffalo, N. Y. (302.8m-990kc) 6:30-7:30 p. m. dance orchestra; 8-11:30, WEAF.

WGY Schenectady N. Y. (379.5m-790kc) 7:30 p. m. dinner music; 8:30, WEAF; 11, dance program.

WHAR Atlantic C'ty, N. J. (272.6m-1100kc) 7:45 p. m., sport talk; 8, evening concert.

WEBH Chicago, III. (365.6m-820lcc) 7-8 p. m. WEAF; 9, orchestra; 10:15, orchestra.

WENR Chicago, III. (288.3m-1040kc) 8, orchestra, artists; 9:30, popular program.

WFAA Ballas, Tex. (499.7m-600kc) 6:30 p. m. music; 8:30-9:30, musicale.

WFLA Clearwater, Fla. (365.6m-820kc) 8:30 p. m. program; 9:45, dance program.

WGN Chicago, III. (305.9m-980kc) 6:10 p. m. Punch and Judy; 6:50, old fashioned almanack; 8, WEAF; 10, Sam 'n' Henry; 10:10, Music Box; 10:20, songs, Correll and Gosden; 10:52, songs.

WHAS Louisville, Ky. (461.3m-650kc) 7:30 p. m. WEAF; 8, studio concert.

WHO Des Moines, Ia. (535.4m-560kc) 6:30 p. m. dinner concert; 8:30, classical music; 9, drama, WHT Chicago, III. (416.4m-720kc) 7:10 p. m., 11-1. WIBO Chicago, III. (416.4m-720kc) 6:15-7 p. m. 10-11.

WHAS Chicago, III. (463m-1140kc) 9:30 p. m. studio program; 11;0l. dance music. WIP Philadelphia, Pa. (508.2m-590lc) 7 p. m. bed-time story.

WJAX Jacksonville, Fla. (336.9m-890kc) 8 p. m. popular program; 10, program; 11;0l. dance music. WIP Philadelphia, Pa. (508.2m-590lc) 7 p. m. bed-time story.

WJAX Jacksonville, Fla. (336.9m-890kc) 8 p. m. popular program; 10, program; 11;0l. dance music.

WJAX Jacksonville, Fla. (336.9m-890kc) 8 p. m. popular program; 10, program; 11;0l. dance music.

WJAX Jacksonville, Fla. (336.9m-890kc) 8 p. m. popular program; 11;0l. dance music.

WJAX Jacksonville, Fla. (336.9m-890kc) 8 p. m. popular program; 11;0l. dance music.

WJZ New York, N. Y. (454.2m-660kc) 8; p. m. popular program; 10, program; 11;0l. dance music.

WJZ New York, N. Y. (454.2m-660kc) 8; p. m. popular program; 10, program; 11;0l. dance music.

WJZ New York, N. Y. (454.2m-660kc) 8; p. m. popular program; 11;0l. dance music.

WJZ New York, N. Y. (454.2m-660kc) 8; p. m. popular program; 10; program; 10; program; 10; p. program; 10; program; 11;0l. dance music.

WJZ New York, N. Y. (454.2m-660kc) 8; p. m. popular program; 10; program; 10 WMAK Buffalo, N. Y. (545.Im-550kc) 6:30 p. m. dinner music; 7:15, news; 9:30, musicale; 10:30, studio program.

WMCA New York, N. Y. (370.2m-810kc) 6:30 p. m. orchestra; 10, music; 11, Parody club.

WOO Philadelphia, Pa. (508.2m-550kc) 7:30 p. m. WOO trio; 8:30, organ; 9, modern program.

WOR Newark, N. J. (422.3m-710kc) 6:15 p. m. songs; 9, Columbia chain; 11, orchestra.

WTAG Worcester, Mass. (516.5m-580kc) 8:30 p. m. musicale; 9, WEAF; 9:30, musicale; 10:30, news.

WTAM Cleveland, Ohio (398.8m-750kc) 6 p. m. orchestra; 7, WEAF; 8, program; 11, orchestra.

WTOC Hartford, Conn. (535.4m-560kc) 7 p. m., talk; 3-5:30, WEAF; 9:30, music; 11, orchestra.

WRC Washington, D. C. (468.5m-560kc) 6, WEAF; 8, WCAF; 9.30, music; 11, orchestra.

WRC Washington, D. C. (468.5m-640kc) 6, WEAF; 8, WCAF; WEAF. (254.7m-1180kc) 7 p. m. pro
WRCA Richmond, Va. (254.7m-1180kc) 7 p. m. pro-WSAI Clincinnati, Ohio (361.2m-830kc) 7 p. m. WEAF; S. time.

WSEA Norfolk, Va. (263m-1140kc) 7 p. m. dinner concert; 9, orchestra; 10, Colonial night club,

WWJ Detroit, Mich. (352,7m-850kc) 6 p. m. concert;

8, WEAF; 9, musicale; 8-11:30, WEAF,

Central Time Stations

KFAB Lincoln, Nebr. (309,1m-970kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:30-10, program; 11-1, frolic; Hotel Lincoln orchestra, 6.30-2, prostant, 12, frolic.

KMA Shenendoah, Ia. (394.5m-760kc) 6 p. m. music; 7, popular; 8, dance orchestra.

KSD St. Louis, Mo. (545.1m-550kc) 6 p. m. WEAF; 8:30, dance music; 11, orchestra.

KTHS Hot Springs National Park, Ark. (384.4m-780kc) 8:30-9:30 p. m. novelties; 9:30-10:15, orchestra. 780kc) 8:30-7-30 p. m. noroccos, chestra.

KYW Chicago, Ill. (526m-570kc) 7-10:30 p. m. program; 10:30-11:55 musicale.

WBAP Ft. Worth, Tex. (499.7m-600kc) 7:30-8:30, musicale; 9:30-12, concert.

WBBM Chicago, Ill. (389.4m-770kc) 7-11 p. m. musicale; 12, organ. cale; 12, organ. WBCN Chicago, Ill. (283.3m-1040kc) 7 p. m. popular program.

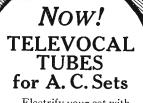
WCCO Minneapolis-St. Paul, Minn. (405.2m-740kc)
7 p. m. WEAF; 9, WEAF; 10:05, dance orchestra.

WCFL Chicago, III. (483.6m-620kc) 6 p. m. labor hour; 7, trio; 10:15-12 inid., stage show.

WCOA Pensacola, Fla. (249.9m-1200kc) 8 p. m. program

MDAF Kansas City, Mo. (370.2m-810kc) 7 p. m. WEAF; 8, program; 8:30, WEAF; 9, WEAF; 11:45-1 a, m. Nighthawk frolic.

WDOD Chattanooga, Tenn. (245.8m-1220kc) 7-10 WDOD Chattanoga, Tenn. (245.8m-1220kc) 7-10 p. m., music.
WEBH Chicago, Ill. (365.6m-820kc) 7-8 p. m. artists; 8:30. WEAF; 9-11, orchestra.
WENR Chicago, Ill. (286.3m-1040kc) 6 p. m. organ; 8. classical program; 9:30, studio program.
WFAA Dallas, Tex. (499.7m-600kc) 6-7 p. m. WEAF; 7. music: 8:30, program.
WGN Chicago, Ill. (305.9m-980kc) 6:50 p. m. Old. Fashioned almanack; 8:30, Paul Ash; 9:30, baritone; 10, Sam 'n' Henry; 10:10. Music Box; 10:20, songs, Tommy Coates; 10:40, Pepper Party.
WHAS Louisville, Ky. (461.3m-650kc) 7 p. m. studio concert; 8, WEAF.
WHB Kansas City, Mo. (336.9m-890kc) 7-8 p. m. talk. WHO Des Molnes, Ia. (535.4m-560kc) 6:30 p. m. or-chestra; 8:30, string trio.



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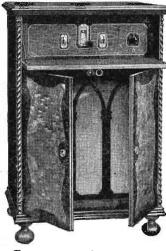




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ightarrow\;$ 

WHT Chicago, III. (416.4m-720kc) 7-10 p. m. pro-WHT Chicago, III. (416.4m-720kc) 7-10 p. m. proparam.

WiBO Chicago, III. (416.4m-720kc) 6-7 p. m. song recital; 10-1, frolic.

WiAZ Chicago, III. (626.m-1140kc) 7 p. m. dinner concert; 9, studio program.

WJJD Chicago, III. (365.6m-820kc) 8-8:30 p. m. musical hour; 11-1 a. m., Victorians.

WLIB Chicago, III. (365.6m-820kc) 7-20 p. m. Duo; 10, Showbeat; 11-12, popular 7:20 p. m. Duo; 10, Showbeat; 11-12, popular program.

WAQ Chicago, III. (344.5m-670kc) 6 p. m. chimes; 8. Columbia chain; 12, popular program.

WQJ Chicago, III. (447.5m-670kc) 10 p. m. orchestra.

WQAI San Antonio, Tex. (302.8m-990kc) 8:30 p. m. program.

WOC Davenport, Ia. (374.8m-800kc) 7 p. m. WEAF; 9:30, studio program.

WOW Omaha, Nebr. (508.2m-590kc) 6 p. m. Hugo Heyn, marimba; Emil Holmann, pianist; 9, classical; 10, Ortho-sonic hour.

WSB Atlanta, Ga. (475.5m-630kc) 8 p. m. program; 10:45, concert.

WSBC Chicago, III. (232.4m-1290kc) 6-8 p. m. Hugh Swift and his Serenaders; dinner concert; 9-1, popular program.

WSM Mashville, Tenn. (340.7m-880kc) 8 p. m. WEAF. Swift and his Serenaders; unmoderate program; WSM Nashville, Tenn. (340.7m-880kc) 8 p. m. WEAF. WTMJ Milwaukee, Wis. (283.9m-1020kc) 7 p. m. classical program; 8:45, to be announced; 9:30, priano.

Mountain Standard Time Stations

1 (225 9m-920kc) 7:30 p. m. S. S. KOA Denver, Colo. (325.9m-920kc) 7:30 p. m. S. S. 1esson; 8, flying lessons; 8:15, program. KOB State College, N. M. (394.4m-760kc) 7:30 p. m. orphotic properties.

hestra,
Pacific Standard Time Stations
Los Angeles, Calif. (468.5m-640kc) 7 p. m
(an) 8, program; 9, orange network; 10, mu 

Friday, silent night for: KPRC, KPSN, WCBD, WFI, WIP, WLAC, WLIT, WLW, WPG, WSM, WSMB.

#### SATURDAY, OCTOBER 8 Headliners

Eastern Central Mountain Pacific 8:30 p. m. 7:30 6:30 5:30 VIIAS (461.3m-650ke) Kentucky Hotel orchestra, direction of Signor Paolo Grosso.

9 KMA (394.5-760ke) Harness Makers, community significant singing.
WIP (508.2m-590kc) Lansdowne Salon orchestra.
9:30 8:30 7:30 6:30
KTHS (384.4m-780kc) Mrs. George Fletcher, so-KTHS (384.4m-780kc) Mrs. George Fletcher, Soprano.
WHO (535.4m-550kc) Four Horsemen quartette. 10:30 9:30 8:30 7:30
WDAF (370.2m-810kc) Great Western Chels. 11 10 8:30 9:30 Four Horsemen quartette. 7:30
WDAF (370.2m-810kc) Great Western Chels. 11 10 8:30 9:30 Four Horsemen quartette. 7:30
WGG (384.4m-780kc) Great Western Chels. 11 10 8:45 8:45
WSB (475.9m-630kc) Charlie Troutt's Melody Artists. 12 mid. 11 10 9 9
White City studio. 12:30 a. m. 11:30 Show broadcast from White City studio. 12:30 a. m. 11:30 10.30 9:30
WFAA (499.7m-600kc) Organ, piano, and feature performers from Palace Theatre bill. 10
WBBM (389.4m-770kc) Midnite Jambouree. For Regular Features See Saturday, October 1.

Football
Arkansas-Baylor at Fayetteville, KUOA (296.9m-

Football

Arkansas-Baylor at Fayetteville, KUOA (296.9m-1010kc),
Butler-Illinois at Urbana, WRM (272.6m-1100kc),
California-St. Mary's at Berkeley, KPO (422.3m-710kc),
Indiana-Chicago at Chicago, KYW (526m-570kc),
WGN (305.9m-980kc), WMAQ (447.5m-670kc),
WMBB (252m-1190kc),
Iowa State-Simpson College at Ames, WOI (265.3m-1130kc),
Minnesota-Okla, Aggies at Minneapolis, WAMD (225.4m-1330kc),
Northwestern-Utah at Evanston, WEBH (365.6m-820kc), WIBO (416.4m-720kc),
Ohio-lowa at Iowa City, WEAO (282.8m-1060kc),
WSUI (422.3m-710kc),
Oregon-Aggies-U. S. S., KFI (468.5m-640kc).



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#### **SUNDAY, OCTOBER 9** Headliners

4:30 p. m. 3:30 2:30 1:30 WIBO (416.4m-720kc) Music That Never Grow Old. Old. 5:30 3:30 2:30 WTIC (535.4m-560kc) Travelers symphonic en-semble. 

#### MONDAY, OCTOBER 10 Headliners

7 p. m. 6 5 4
WTIC (535.4m-560kc) Trinity Dialog.
8 p. m. 7 6 5
KMA (394.5m-760kc) Gray Sisters, classical program.

Central Mountain Pacific 8 p. m. 7 WFAA (499.7m-600kc) State Fair program from the Fair Grounds. 10:15 9:15 8:15 7:15 KOA (325.9m-920kc) "Dark, Dark Secrets." For Regular Features See Monday, October 3.

#### TUESDAY, OCTOBER 11 Headliners

## Headliners

7:30 p. m. 6:30 5:30

WCCO (405.2m-740kc) "Fand R Family."

WGY (379.5m-790kc) outdoor talk, Jud Landon.

7:45 5:45 5:45 4:45

WIBO (416.4m-720kc) "Deep Sea Ballads," Edward Zander, Jr.

RMA (304.5m-760kc) Applesauce Twins.

WFAA (499.7m-600kc) State Fair program from State Fair Crounds.

WIBB (25:m-1190kc) Doris Mason Moran;

Trianon mixed quartet.

8:30 p. m.

WLS (344.6m-870kc) Don Malin, "Personalities in Music"—Chopin.

8 MTHS (384.4m-780kc) Lon Chassy, violin; John G. Heyn, piano.

Mountain Pacific Central Eastern 10 9 8 7 WFAA (499.7m-600kc) J. Abner Sage and other musicians, 9:00 8:00 7:00
WHB (336.9m-890kc) Blackface Comedians,
WOC (352.7m-850kc) old time numbers
10:30 9:30 8:30 7:20
WDAF (370.2m-810kc) Martin and Taylor,
11 09 8
WFAA (499.7m-600kc) Seven Aces, all eleven of them.

For Regular Features See Tuesday, October 4.

#### WEDNESDAY, OCTOBER 12 Headliners

\*\*\*Sp. m. 7 6 5

\*\*WMBB\*\* (252m-1190kc) Hilda Hinrichs, 8:20

\*\*WLS\*\* (344.6m-870kc) Old Town Duo-Rose Sherman, violinist, Marie Ludwig, harpist. 9:05

\*\*RVA\*\* (254.1m-1180kc) Hawaiian players. 9:30

\*\*RVA\*\* (254.1m-1180kc) Hawaiian players. 9:30

\*\*RVA\*\* (254.1m-1180kc) Memories of the Opera, WTIC (535.4m-550kc) Clements show book. 10

\*\*WGY\*\* (379.5m-790kc) WGY orchestra. 10:15

\*\*KOA\*\* (325.9m-920kc) Henry Trustman Ginsberg, violin. 9:30

\*\*9:30

\*\*Standard Trustman Ginsberg, violin. 9:30

\*\*RYA\*\* (379.5m-920kc) Henry Trustman Ginsberg, violin. 9:30

\*\*RYA\*\* (379.5m-920kc) Henry Trustman Ginsberg, violin. 9:30

\*\*RYA\*\* (379.5m-790kc) WGY Orchestra. 10:150

\*\*RYA\*\* (379.5m-790kc) WGY Orchestra. 10:150 8:30 7:30 10:30 9:30 8 WDAF (370,2m-810kc) Cavaliers 11 10 9 8 KGO (384.4m-780kc) vaudeville, WIBO (416.4m-720kc) Stage show, Sheridan

Theatre.
For Regular Features See Wednesday, October 5.

Sensati



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#### THURSDAY, OCTOBER 13 Headliners

p. m. 6:15 5:15 (416.4m-720kc) "Scandinavia Central Mountain WRAA (499.7m-600kc) Lucile Dabney and Lorella S. Cullum. S. Cullum, 7:05 8:05 5:05 SWRVA (254.1m-1180kc) Edgeworth band wagon, 7:30 WTIC (535.4m-560kc) Capitol theater presentation, (394.5m-760kc) Jubilee Quartette, Dixie

WIIB (336.9m-890kc) Frederick Curth players.
WRVA (254.1m-1180kc) Stutz Banjo quartet.
9:30 7:30 6:30
KTIIS (384.4m-780kc) Mrs, Guinn Massey, popular piano concert.
WRVA (254.1m-1180kc) Country Fiddlers confect

test, 10 9 8 7 WFAA (499.7m-600kc) Mickwitz Club recital, WSM (340.7m-880kc) Mrs. Daisy Fentress, con

tralto, 9:30 8:30 7:30 10:30 9:30 8:30 7:30 WSM (340.7m-880kc) Pipe organ concert by F. Arthur Henkel, For Regular Features See Thursday, October 6.

#### FRIDAY, OCTOBER 14 Headliners

Rastern Central Mountain Pacific 7:45 p. m. 6:45 Nobert Wessling, barytone. 8 Nobert Wessling, barytone. 9 Nobert Wessling, barytone gram.
8:30 p. m. 7:30 S:30 5:30
WFLA (365.6m-820ke) Mrs. Howard Moore, organist; Blanche Cloyd, soprano.
WHAS (461.3m-650ke) Studio concert under ausnices of University of Louisville.
WLS (344.6m-870ke) Scenes from Shakespeare's plays, Anthony Wons.

WDAF (370.2m-810kc) Ike and Mike. 9:30 8:30 7:30 6:30 WCCO (405.2m-740kc) Corrine Jordan, contralto and planist.

and pianist.

9
OA (325.9m-920kc) Lessons in airplane flying.
Cloyd Clevenger, EAF (491.5m-610kc), WTAG
WJAR (483.6m-620kc), WTAG
WGR (302.8m-990kc), WLAG
WRC (468.5m-640kc), WCAE
WTAM (399.8m-750kc), WAJ
WTAM (399.8m-750kc), WAJ
WTAM (399.8m-750kc), WSD
WGN (306m-980kc), WSD
WGN (306m-980kc), WSD
WGN (374.8m-880kc), WGN
WGN (374.8m-880kc), WGN
WGN (379.5m-790kc), Persians,

Persians. WFAA (499.7m-600kc) Carl D. Green and his violin choir. "560kc) Ernest Whitfield tour. 10:15 (335.4m-560kc) Ernest Whitfield tour. 10:15 (8:15 7:15 KOA (325.9m-920kc) "On the Wings of Pegasus," Spain.

gasus," Spain.
10 9 8
KGO (384.4m-780kc) Western artists series.
For Regular Features See Friday, October 7.

#### SATURDAY, OCTOBER 15

y 8 7 6
KMA (394.5m-760kc) Harness Singers, popular

KMA (394.5m-760kc) harness singers, popular songs, 9:30

KTHS (384.4m-780kc) Cello recital, Alfred Schipsi, WMIB (252m-1190kc) Trianon orchestra; Borden Bros.; popular program, 10

WFAA (499.7m-600kc) Cecile Dunavant, singer, 10:30

WDAF (370.2m-810kc) Great Western Chefs. 10:40

WFAA (499.7m-600kc) Jack Horn, cellist; Margaret Horn, pianist.

WIBO (416.4m-720kc) Frank and Jean, harmony team.

team, 12:30 a. m. 11:30 10:30 9:30 WFAA (499.7m-600kc) The Place Theatre features. 1 12 11 KGO (384.4m-780kc) Hotel Whitcomb band, For Regular Features See Saturday, October 1.

#### Football

Chicago-Purdue at Chicago, KYW (526m-570kc), WEBH (365.6m-820kc), WMAQ (447.5m-670kc), WMMB (252m-1700kc). Iowa State-Illinois at Urbana, WRM (272.6m-1100kc). Kansas State Algies-Kansas at Lawrence, KFKU (254.1m-1180kc).
Michigan-Wisconsin at Madison, WGN (305.9m-980kc). (254.1m-1180kc).
Michigan-Wisconsin at Madison, WGN (305.9m980kc).
Minnesota-Indiana at Bloomington, WAMD (225.4m-1330kc).
Ohio-Northwestern at Columbus, WEAO (282.8m1060kc).
Stanford-U. of So. Cal. at Palo Alto, KPO (422.3m-710kc), Vanderbilt-Texas at Dallas, WFAO (499.7m-600kc).
Wabash College-lowa at Iowa City, WSUI (422.3m-710kc).

#### SUNDAY, OCTOBER 16 Headliners

Eastern Central Mountain Pacific 3:30 p.m. 2:30 1:30 1:230 WIBO (416.4m-720kc) German program, German announcements and instrumentalists and vo-

To the following state of the following state WHO (535.4m-560kc) Bankers Life Little sym-

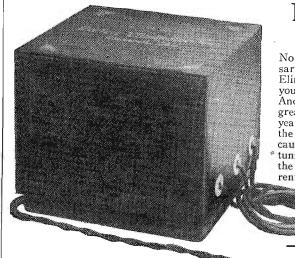
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 KNX (336.9m-890kc)
 One act play.
 11:30
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 WCAU (336.9m-890kc)
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 Bunch.

12 mid.

11 10 8

KOIL (277.6m-1080kc) Concert ensemble.

WFAA (499.7m-600kc) La Mariquita and her

Castlian orchestra.

12:15 a.m. 11:15 10:15 9:15

WHB (336.9m-890kc) Rockhill Theater organ con-For Regular Features See Sunday, October 2.

#### MONDAY, OCTOBER 17 Headliners

Eastern Central Mountain Pacific 7:28 p.m. 6:28 5:28 4:28 WGY (379.5m-790kc) "Footnotes," T. Arthur Cohen. 7:45 4:45
WIBO (416.4m-720kc) Kenneth Sterling, baritone. 9:10 8:10 7:10 6:10
WRVA (254.1m-1180kc) Singers club of Virginia. 9:30 6:30
WCOC (352.7m-850kc) Erwin Swindell, organist. 10 9
KOA (325.9m-950kc) Scheuerman's Colorado orchestra. KOA (325.9m-950kc) Scheuerman's Colorado orchestra.

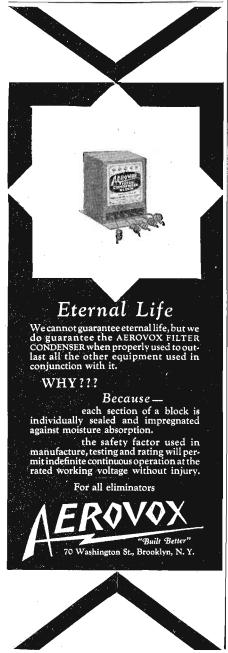
KOIL (277.6m-1080kc) Shep's Barnyard Twins.
10:10 8:10 8:10 7:10
KTHS (384.4m-780kc) Concert by Atlington Hotel
orchestra.
10:30 8:30 7:30
WCCO (405.2m-740kc) Vagabonds.
12 mid. KOO (384.4m-780kc) "Chats About New Books."
12:45 a.m. 11:45 10:45 9:45
WDAF (370.2m-810kc) Nighthawk frolic.
For Regular Features See Monday, October 3.

#### TUESDAY, OCTOBER 18 Headliners

Eastern Central Mountain Pacific 7:45 p.m. 6:45 S:45 WIBO (416.4m-720kc) Charlotte Edwards, contralto. WLW (428m-700kc) Harmony Four.
WMBB (252m-1190kc) Monte Hunn.
8:30 7:30 6:30 5:30
WLS (344.6m-870kc) Don Malin, "Personalities in Music." WLS (384,4m-780kc) Hawaiian music.
9:15 (384,4m-780kc) Grace Brown, the ukulele lady.
9:30 (535,4m-560kc) Akay Harmony Belles.
10 (834,4m-780kc) Concert by Arlington Grace Brown. RTHS (384,4mi-760kc) Contert of the sensemble.
WGN (306m-980kc) A Radio Announcer's, Rambles.
10:30 9:30 8:30 7:30
WCCO (405,2m-740kc) Trustodians.
11 10 9 8
KGO (384,4m-780kc) Pilgrims.
For Regular Features See Tuesday, October 4.

#### WEDNESDAY, OCTOBER 19 Headliners

Eastern Central Mountain Pacific 7:15 p.m. 6:15 S:15 4:15 WIBO (416.4m-720kc) "The Constitution of the United States" talk by Clem F. Wade. 7:45 5:45 S:45 WIBO (416.4m-720kc) Cantor Jacob H. Sonenklar, lyric tenor; "Hebrew and Italian recital." 8 WLW (428m-700kc) Land O'Dance music.



Central 8.15 (252m-1190kc) Trianon mixed quartet, 8:15 (7:15 (6:15 5:15 WSM (340.7m-880kc) Andrew Jackson hotel or-www. (294.1h-1180kc) Atwater Kent Foundation contest.

8 7

KFAB (309m-970kc) Jack and Jill.
WGY (379.5m-790kc) WGY orchestra.
WLS (344.6m-870kc) Choral music.
10:30 8:30 7:30

WBBM (389.4m-770kc) Harding theater program.
WDAF (370.2m-810kc) Cavaliers.
WGN (306m-980kc) Somewhere in Chicagoland.
WTIC (535.4m-560kc) Hotel Bond orchestra.
11 9 8

CFCA (357m-840kc) Canadians.
KGO (384.4m-780kc) vaudeville.
For Regular Features See Wednesday, October 5.

#### THURSDAY, OCTOBER 20 Headliners

## Central Mountain Pacific 7:30 p. m. 6:30 5:30 4:30 4:30 WGY (379.5m-790kc) Story of America 7:35 WGN (36m-980kc) Drake Concert ensemble. 8 7 6 5:35 4:35 WGN (36m-980kc) Drake Concert ensemble. 8 7 6 WMBB (252m-1190kc) Walter Levis. WRVA (254.1m-1180kc) Martinsville, Va., night. 9 8 7 6 WGBD (344.6m-870kc) staff artists. WHAS (461.3m-650kc) Joseph J. Eisenbeis, tenor. WHB (336.9m-890kc) Frederick Curth players, 9:30 8:30 7:30 KTHS (384.4m-780kc) Boss Graham, baritone. 10 9 8 7 7 WLW (428m-790kc) Floyd Walter, organist. WSM (340.7m-880kc) F. Arthur Henkel, organist. 12:45 11:45 10:45 9:45 WDAF (370.2m-810kc) Nighthawk frolic. 1 a. m. 172 KGO (334.4m-780kc) Hotel St. Francis orchestra. For Regular Features See Thursday, October 6.

#### FRIDAY, OCTOBER 21 Headliners

Eastern Central Mountain Pacific 7:15 p. m. 6:15 5:16 4:15 4:15 WIBO (416,4m-720kc) Dwight Edrus, the Golden Voiced Tenor. 7:30 4:30 WJR-WCX (440 9m-680kc) At Eventide. WTIC (535,4m-560kc) Laura C. Gaudet, pianist. 7:50 WGN (306m-980kc) Old Fashioned Almanack.

WRVA (254,1m-1180kc) Ye Olde Tyme Melody Makers, 9:45
KTHS (384,4m-780kc) Mrs. Guinn Massey, popular, piano selections.

ROA (325,9m-920kc) Lessons in airplane flying.

KGO (384,4m-780kc) Mme. Berthe Baret, French violinist. For Regular Features See Friday, October 7.

#### SATURDAY, OCTOBER 22 Headliners

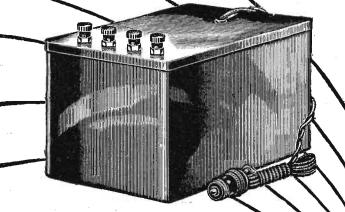
#### Football

Football
Kansas-Rolla School of Mines at Fayetteville,
KUOA (296.9m-1010kc).
Chicago-Pennsylvania at Chicago, KYW (526m-570kc), WMAQ (365.6m-820kc), WMBB (252m-1190kc).
lowa-Denver at Iowa City, WSUI (422.3m-710ke).
Minnesota-lowa at Minneapolis, WAMD (225.4m-1330kc).
Northwestern-Illinois at Evanston, WEBH (365.6m-820kc), WIBO (416.4m-720kc).
Ohio-Michigan at Ann Arbor, WEAO (282.8m-1060kc). Washington-Kansas at Lawrence, KFKU (254.1m-1180kc).

#### SUNDAY, OCTOBER 23 Headliners

Central Mountain VLS (344.6m-870kc) WLS Little Brown Church, 7:30 Si30 Si30 Si30 Si30 Si30 Si30 Si30 Reight Song recital,

## 8 7 6 WMAQ (344.6m-870kc) Reverie hour.



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Because every part in the Townsend 3" Socket Power Unit is made and assembled in our own factory we can give you a high grade instrument at a surprisingly low price. Now everyone can enjoy wonderfully improved recep-tion, uninterrupted by screeches of fad-ing batteries.

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users prove that the Townsend "B" Socket Power is the most remarkable value in Radio today.

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Raton, N. Mex.

I have been using your Eliminator every day for about four months. It has ice, I have tried several other makes and like yours best.

Jas. D. Smith.

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Balance Attach Only COD. \$1.00 to this Coupon

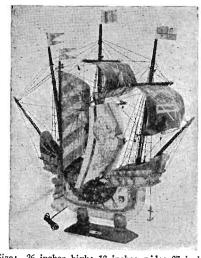
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Size: 26 inches high; 12 inches wide; 27 inches long (overall)

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You need not know anything about ship building or loud speakers to assemble one of these models. As a matter of fact, if you have never seen a ship you can put the ship model loud speaker together in a few hours by following our diagrams and instruction sheet which is so written that a school boy can understand it. All you need is a small hammer. The parts are numbered on the diagram to make the process even more simple. As long as you can understand such instructions as these (actually taken from assembling chart that is included with every model) you cannot fail: "Take No. 57, place it in front end of No. 56 and tap lightly with hammer. Next take No. 58 and place it up against No. 57 and tap with hammer up against No. 57 and tap with hammer to bring it into place."

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The MELODY SHIP is made entirely of wood. A positive free edge cone speaker with a unit of the electro magnet type, powerful enough to operate a 72-inch cone, is attached to the mainmast. This insures splendid service and ample volume with no distortion.

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cents).
PLEASE PRINT NAME AND ADDRESS
PLAINLY.

'	
5	eet or R. F. D
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Giuseppe DeLuca, baritone.

10

WMBB (252m-1190kc) Trianon orchestra.
11:40

11:40

9:40

8:40

WGN (306m-980kc) Albert Meuer, organist.
12:15 a. m: 11:15

9:15

WHB (336.9m-890kc) Rockhill Theater organ concepts

For Regular Features See Sunday, October 2.

# **MONDAY, OCTOBER 24** Headliners

Eastern Central Mountain Pacific 7 p. m. 5 to 10 p. m. 6 t

WGY (379.5m-790kc) "Footnotes," T. Arthur Cohem.
7:30

WCCO (405.2m-740kc), Curtis hotel orchestra.
WIZ (548.3m-660kc), KDKA (315.9m-950kc), WBZ (333.1m-900kc), KYW (326m-570kc), WBZ (333.1m-900kc), WHA (461.3m-650kc), WBZ (468.5m-640kc), WHAS (461.3m-650kc), WBA (285.5m-1050kc), WJR (440.9m-680kc), WBA (285.5m-1050kc), WJR (440.9m-680kc), WCCO (374.8m-800kc), WIAM (277.6m-1080kc), WCCO (405.2m-740kc), WBT (285.5m-11080kc), WCCO (495.2m-740kc), WBT (285.5m-11080kc), WTM (279.5m-1080kc), WTM (279.5m-1080kc), WBT (285.5m-11080kc), WTM (285.5m-110

KOA (325.9m-920kc) Shekerman's Colorad Chestra.
KTIIS (384.4m-780kc) Orchestra concert with Ted Fiorito and his band.
10:15 8:15 7:15
WRVA (254.1m-1180kc) Four Deuces.
For Regular Features See Monday, October 3.

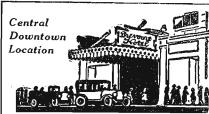
# **TUESDAY, OCTOBER 25** Headliners

duo. 11:20 10:20 9:20 8:20 WGN (306m-980kc) Music Box. For Regular Features See Tuesday, October 4.

# WEDNESDAY, OCTOBER 26 Headliners

Eastern Central Mountain Pacific 7 p.m. 6 5 5 KMA (394.5m-760kc) Music, markets, news. 8 7 6 5 WHB (336.9m-890kc) movie questions and answers, Journal-Post Movie Mail.





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Eastern Central Mountain Pacific 9
WBM (389,4m-770kc) National male quartet. WJZ (454,3m-660kc), WJZ (333,1m-900kc), KDKA (315,5m-950kc), KYW (526m-570kc), KDKA (315,5m-950kc), WJR (440,9m-650kc), WJR (440,9m-650kc), WJR (461,3m-650kc), WJR (475,9m-630kc), WJR (461,3m-650kc), WSM (475,9m-630kc), WJAX (336,9m-180kc), WJM (340,7m-880kc), WJAX (336,9m-890kc), WJM (340,7m-870kc) Allstate Hour. WRVA (254,1m-1180kc) Richmond Musicians club concert. 10 9 8

WJAZ (263m-1140kc) Earl Hoffman's Chez Pierre WJAZ (263m-1140kc) Earl Hoffman's Chez Pierre orchestra.
WJ.W (428m-700kc) Crosley Instrumental trio. 10:30 9:30 8:30 7:30
KFAB (309m-970kc) Milady Harmony Boys. 11 0 FCCA (357m-840kc) Canadians. KGO (3344-4m-780kc) vaudeville. 11 p. m. 10 9 8WJBO (416,4m-720kc) Sheridan Theatre stage stars and orchestra. 11:40 9:40 8:40
WGN (306m-980kc) Melody time.
For Regular Features See Wednesday, October 5.

# THURSDAY, OCTOBER 27 Headliners

# FRIDAY, OCTOBER 28 Headliners

For Regular Features See Thursday, October 6.

Eastern Central Mountain Pacific 7:30 p.m. 6:30 5:30 4:30 WTIC (535.4m-560kc) Esther A. Nelson, organist.

Central	Mountain	Pacific	S:20	T:20	6:20	5:20
WRVA (254.1m-1180kc)	Country Fiddlers.	S	8	7	6	
KMA (394.5m-760kc)	Essex Municipal	Band.				
KOIL (277.6m-1080kc)	Billy and Helen.					
KTHIS (384.4m-780kc)	Requests by Ted	Fiorito and his Arlington orchestra.	S:30	6:30		
WGN (306m-980kc)	Paul	Ash and his Merry-Mad musical gang. WTAG (516,9m-580kc) Hawaiian serenaders, 10.05 9.05 8:05 7:05				
WCCO (405.2m-740kc) Dance program, 10:30 9:30 8:30 7:30
KFAB (309m-970kc) Leando string quartet.
WJR-WCX (440.9m-680kc) Joe Higgins Old Time song review wl.S (344.6m-870kc) Little Symphony "Pop" concert. 
 concert.
 9
 8

 11
 10
 9
 8

 WIBO (416.4m-720kc) Dorothy Rae, soprano.
 11:15 a.m.
 12:15

 11:15 a.m.
 12:15
 10:15

 WBBM (389.4m-770kc) Organ club.
 Organ club.
 For Regular Features See Friday, October 7.

# SATURDAY, OCTOBER 29 Headliners

Eastern Central Mountain Pacific 7 p.m. 6

WLW (428m-700kc) Johanna Grosse, organist. 8:15

WTAG (516.9m-580kc) WTAG Little symphony. 8:45

WCCO (405.2m-740kc) Fireside Philosophies—Rev. Roy L, Smith, 8

# Football

California-U. S. C. at Los Angeles, KPO (422.3m-710kc), KFI (468.5m-640kc).

Drake-Kansas at Lawrence, KFKU (245.1m-1180kc).

Kansas Aggies-Iowa State at Ames, WOI (265.3m-1130kc).

Michigan-Illinois at Urbana, WGN (305.9m-980kc), WRM (272.6m-1100kc).

Michigan State-U. of Detroit at East Lansing, WKAR (285.5m-1050kc).

Minnesota-Wisconsin at Minneapolis, WAMD (225.4m-1330kc).

Northwestern-Missouri at Evanston, WEBH (365.6m-820kc), WIBO (416.4m-720kc).

Ohio-Chicago at Columbus, WEAO (282.8m-1060kc), WMAQ (447.5m-670kc).



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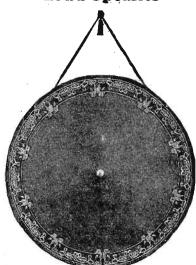
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Wall Type Loud Speaker



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# **SUNDAY, OCTOBER 30** Headliners

Eastern Central Mountain 5 p.m. 4 3 KMA (394.5m-760kc) St. Mary's choir. 7 WIBO (416.4m-720kc) "Gems of Music," fantasy wLS (344.6m-870kc) WLS Little Brown church. parast.
10 p.m. 9 8
WMBB (252m-1190kc) Trianon ensemble.
11:20 10:20 9:20 WMBB (252m-1190Kc) THAIRON ensemble.

11:20 10:20 9:20 8:20

WGN (306m-980kc Salernos,
1 a.m. 12 11 10

WBBM (389.4m-770kc) Nutty club.

For Regular Features See Sunday, October 2.

# MONDAY, OCTOBER 31 Headliners

Central Mountain 8 7 6 KMA (394.5m-760ke) Ruby trio 

**PARTS** used in

"A-C Super

operated from light socket"

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Carter Radio Co.

NUMBER of authentic books have appeared during the current season of 1 % interest to the Radio fan who delves into the why and wherefore of Radio; and concerns himself with the progress of its

cerns himself with the progress of its development.

Probably the most complete compilation of "non-technical reference work, easy to read and easy to use," may be found in Drake's Radio Cyclopedia. The fly leaf explains that it covers "over 1,500 subjects arranged alphabetically, including instructions for building, operating and testing receivers, power units and Radiophone equipment. Arranged for use of set builders and designers; service and repair men; dealers and salesmen; experimenters and students; set owners and operators. It is edited by Harold P. Manly of the Radiotechnic Laboratory, Chicago. The book contains 950 illustrations, circuit diagrams, constructional layouts and graphic curves." There are over 300 pages in the Cyclopedia and doubtless the book will receive a hearty welcome from persons who seek a convenient reference for all Radio technical terms and operations. Frederick J. Drake & Co., Chicago, \$6.



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development.

RADIO communication in general, and Law. The author dedicates the book to broadcasting in particular, furnishes a new implement for the ancient Co., \$3. art of defamation . . . it classes with the newspapers . . . if improperly used, it is a powerful weapon for character destruction."

newspapers . . . if improperly used, it is a powerful weapon for character destruction."

This is just one of hundreds of legal phases pertaining to the uses of Radio discussed in The Law of Radio Communication by Stephen Davis, solicitor of the department of commerce, and formerly associate justice of the supreme court of New Mexico. The book was awarded the Linthicum Foundation prize by the faculty of law of Northwestern University, under the Charles G. Linthicum Foundation, June, 1927. Some of the subjects treated are: "Paid Advertising, Use of Wavelengths for Broadcasting, Call Letters (advertising value—property rights), The Right to Engage in Radio Communication, Federal Jurisdiction, The Radio Act of 1927, Broadcasting of Copyright Matter, Control of Broadcast Programs and International

# Detects Airplanes

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ONLY

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# The New No. 3 Centralab



Just lounge in your easy chair, and let the program come in smoothly modulated as it changes in character. No more jumping up to adjust the dials every time the station changes from vocal to orchestration. Simply tune with your dials to maximum strength and clarity of station, then from your easy when with 20 feet of

of station, then from your easy chair, with 20 feet of cord, use Modu-Plug No. 3 to smooth the reception down to any degree of tone, without changing the ratio of high and low notes. Centralab Modu-Plug gives any degree of volume from a whisper to maximum.

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ELECTRIC RADIO

# Scanlan Electric Has New Transformer Idea

Power tubes now on the market for the purpose of securing greater volume without distortion are excellent products but they require higher plate voltage and in order to protect both the speaker and set, and to obtain this greater volume with clarity of reception, it is necessary to hook up the loud speaker to the set through an output transformer. The Scanlan Electric Manufacturing company of Chicago—who for several years have been furnishing transformers as standard equipment to over twenty-five set manufacturers—are putting on the market a new idea in an output transformer wherein beauty of appearance, economy and perfection of operation are combined and which is called the Scanlan "Speaker Chest," an output transformer for power tube equipment.

This accessory of metal with the transformer scaled inside of it, has all the appearances of a cigarette container in the shape and design of a treasure box. It is finished in antique bronze, antique silver, antique brass and a walnut shade which will harmonize with practically any set and speaker.

This design and the four finishes do

and speaker.

This design and the four finishes do away with the crude appearance of a transformer in its factory finish sitting on top of the set or beside the speaker, and adds distinctive note of harmony to the appearance of the entire radio unit.

The Scanlan Electric Manufacturing company have decided to market this product directly through jobbers and have started a national advertising campaign to assist the merchandising of this product for both the jobber and the retailer.



**STOPS** Tobacco Habit

THE KEELEY INSTITUTE
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Possible creaks or scratchy sounds seeming to come from the WGR transmitter at Buffalo should not be attributed to the well known static or loose connections in the receiver.

uted to the well known static or loose connections in the receiver.

It's just Bob Brown, the announcer, taking a deep and painful breath and incidentally causing the broken ends of a couple of ribs to rasp together. All the other ribs are hitting on twenty-two. The two that are missing, ah, well you see Bob did his bit at the Pine camp with the 174th infantry and the top sergeant, just like all top sergeants, knows his onions when it comes manhandling—especially when it involves a pair of padded mitts.

"So Bob," as Bruce Stewart tells it, "being in the announcing habit broadcasts to the regiment he'd go to the sarge two rounds for a knock out. Well two rounds weren't scarcely necessary because when they took Bob out on the stretcher there was still time to spare. But you gotta give the boy credit. He's ready to do the Dempsey and make a come-back and has issued a challenge to all announcers under the heavy for the WGR area champion.



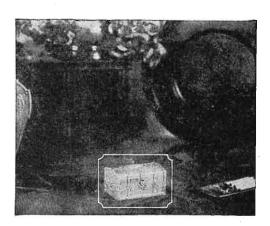
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# The SCANLAN SPEAKER CHEST

An Output Transformer for Power Tube Equipment

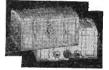
# PROTECTION - ECONOMY - CLARITY

Combines charm of appearance and perfection in operation to fill the increasing demand for an output transformer which will protect the speaker unit from the higher plate voltage required by power tubes.

The Scanlan Speaker Chest will greatly improve tone quality and volume. Also will protect speaker unit on sets not using power tubes. Manufactured by a company who for several years have been furnishing transformers as standard equipment to over 25 set manufacturers.

SCANLAN ELECTRIC MANUFACTURING CO. 1113-19 N. Franklin Street, Chicago, Ill.

Our Jobbers Sale Plan is a real money-making opportunity. Upon receipt of your inquiry we will be glad to send full details.



The Scanlan Speaker Chest will be backed by a National Advertising Campaign.

# Sonochorde Expands Factory

There is no retrogression in Radio in-far as the manufacturers of the Sono-Solar as the manufacturers of the Sono-chorde Cone Speakers are concerned. Makers of the speaker, the Boudette Mfg. Co., have just increased production capac-ity 150 per cent. The factory is located at Chelsea, Mass., and is now equipped to produce 2,500 speakers a day.

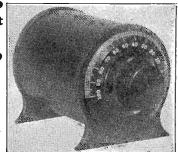
when producing 1,000 a day last year. There are four models this season; the new Junior is considered most popular.

# Convenient for Invalids

the speaker manufacturing business in 1922 and during the first year considered 100 instruments a month a considerable achievement. Their success is indicated by the statement that they have never been able to keep up with their orders, even the speaker many statement and there are successed in any single dial receiver, making it possible for the listener to sit where he likes and do his tuning where he sits. This portable dial is also regarded as a convenience for invalids, who may do their tuning in bed. The receiver may be located in any part of the house and the dial in any other room.

"When a station is hard to get, and it is a distant hit Use a REESONATOR"

Make your set up to date by equipping it with this wonderful improvement which will give you additional range and volume to a degree which you formerly considered infinitely out of your reach. Through actual tests we have found that the Reesonator will boost your volume from three to twenty times on distant stations. Enables battery current to be reduced and increases the life of your tubes. Reduces interference and increases selectivity. As proof of the soundness of this instrument: Several of the latest and foremost radios have this principle incorporated in their 28-inch models. Adapted especially for Atwater-Kent models 30, 32, 35 and similar single dial radios. Can also be used to great advantage on two or three-dial tuned radio frequency sets. Can be installed by anyone without tools in less than a minute.



# WE GUARANTEE SATISFACTION

Try one for three days at our risk. If not thoroughly satisfied your money will be cheerfully refunded. State type of machine you have when ordering. Sent complete and P. P. on receipt of \$4.75 or sent C. O. D. Dealers' inquiries are solicited. References: First National Bank, Fargo National Bank.

F. & H. RADIO LABORATORIES, Dept. 105 Fargo, N. Dak.

Latest and Finest Loud Speaker for your Radio

Here is the newest and latest scientific development in Radio Loud Speakers—a combination cone type speaker with a resonant chamber — the famous All-American Reproducer. No snarling, slurring or tubbiness; no distortion at any volume; every bit of delicate tone shading faithfully reproduced. The last word in loud speakers for any radio up to 10 tubes.

Brings it on

Yes, only \$1.00 with coupon brings this amazing loud speaker—the best radio affords—to your home on 30 days trial. Attach it to your set, small or large, the All-American reproducer will astonish and delight you by the almost unbelievable improvement in reception over your old speaker. Every note, every word—clear, full-toned and natural. Equipped with an output transformer, it may be used on sets with power amplifier tubes. The metal case is beautifully designed and finished in permanent walnut brown enamel. An exqusite ornament in any home. 15 in, high by 10 in, wide; comes complete with attachment cord. After 30 days if not delighted, send it back at our expense and your \$1.00 plus transportation charges will be refunded at once. You don't risk a penny.

Send Coupon NOW

Order by No. Y157A. \$1.00 with coupon; \$4.00 monthly; Total price only \$25.00. Shipping weight about 15 lbs.

Free Catalog of home furnishings sent with or

Straus & Schram Chicago If you want ONLY our free catalog of home furnishings mark X here **Dept.** R3517

\$400 a Month

If satisfied, pay only \$4.00 a month until you have paid our special introductory price, only \$25.00. The same price dealers ask for spot cash — on easy payments.

Straus & Schram, Dept. R3517 Chicago, Ill. Enclosed find \$1.00. Shlp All-American Loud Speaker. I am to have 30 days free trial. If I keep the speaker I will pay you \$4.00 monthly. If not satisfied, I am to return the speaker at your expense and you are to refund my money and any express charges I paid.

All-American Loud Speaker, No. Y157A, \$25.00

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# Tahiti Fan Hears U. S. Broadcasts

Just Two Listeners to 80 Islands-Lack of Battery Facilities Discourages Others

Out of the interesting fan mail at WSBC, Chicago, came this letter from Papeete, Tahiti:

Papeete, Tahiti:

"The other night when trying to avoid KFKX in order to catch CNRV I caught suddenly WSBC. Your announcer was asking us to write to you about batteries. And so I write. First you will have to locate me on the chart of the South Seas and your announcer certainly will be surprised to hear that his voice is as clearly heard 6,000 miles away as it is at WSBC station. And so are WLIB, WJF and WAHG and others. My set is an ordinary neutrodyne, 5 lamps; A battery, Philoo 6 v; and 3 sets of Willard 24 (WTAM) for B and a C of 5. This being known by you, I come to the business part of my letter.

"Here in Tahiti we have great trouble

"Here in Tahiti we have great trouble from our batteries. We are only two Radio fans here. Why? Because other people have tried but cannot stand the ex-penses of keeping their batteries in order.

"First. Papeete is the only place amongst 80 islands that enjoys electricity. Electricity people ask \$2 to a charge for any battery. Well, 79 islands and towns around cannot enjoy Radios because there is no way, no possibility, for ANY price, to charge batteries.

"Second. Those islands which are flush with the ocean are very damp, salty dampness, and subject to the great humidity that ruins any battery in no time.

midity that ruins any battery in no time.

"However, we have any number of motor ships, but all of them use wet batteries. Those last long and are easily recharged. If you could supply wet batteries A, B and C, I feel sure that the 79 other islands would very much appreciate your supplies. Wet batteries alone can popularize Radio on our islands.—Emmanuel Rougier, Papeete, Tahiti."







# BATTERY NOISE

and you'll be surprised how little "static" you really have.

RADIOLITE prevents plate sul-phation—giving LONGER life to the battery—MORE real power, and ELIMINATING battery noises. Mail YOUR order NOW!

# Radiolite <sup>\$</sup>150 for ONE Battery Postpaid

Check or Money Order to RADIOLITE BATTERY COMPANY Asheville, N. C.

# CeCo Shows Humless **AC** Tubes for Socket

C ETTING away from the A. C. hum is one of the virtues of a new A. C. tube recently brought out by the C. E. Manufacturing Company, Incorporated, Providence, R. I. In fact, there are two new A. C. tubes in this line.

One type will be known as the M-26 and is a 1½ volt filament tube. This tube is best suited for radio and audio stages and shows a remarkable freedom from A-C hum even under the most strenuous operating conditions.

The other new tube will be known as The other new tube will be known as type N-27 and also operates on raw A-C. This tube is of the separate heater type with a five prong base carrying the cathode connection in the base itself. This tube is particularly suited for use as a detector, although it may be used as an amplifier as well.

The heater filament draws 1.75 amps at 2.5 volts.

The general characteristics of these A-C tubes follow closely those of the "CeCo" type "A" and vary only in operating conditions. For this reason "CeCo" types M-26 and N-27 may be used with superior results in any set specifying tubes of this

# Communicates 190 Miles With Flash Lamp Power

LONDON.—The extraordinary high efficiency with which communication may be effected over comparatively long distances is demonstrated by an experiment recently



# **Amazing Success** "Hitching Your Radio Star Antenna System"



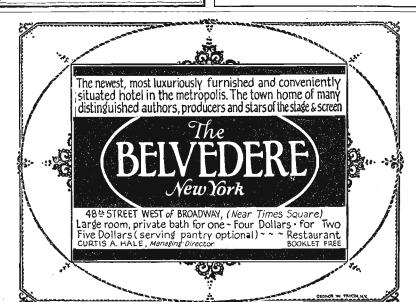
New appliance the lightning rod. From all over the world come daily reports of satisfaction and superior-ity. Packed with wire, insulators, mast seat, all complete except pipe.

\$6.50 Postpaid Literature on request.

Order Direct Now or at your Dealer.

# Star Antenna Products

820 S. Main Street Elkhart, Indiana



conducted by L. A. C. Lawler, a London fan, transmitted with the call sign "G61.R."

Mr. Lawler succeeded in securing two way communication with another amateur in Mons, Belgium, using a power equiva-lent to that consumed by a flash-lamp bulb. The distance is about 200 miles.

# "Echo" from Belgium

Mr. Lawler, while conducting some tests, had the misfortune temporarily to lose the services of his generator. Rather than forego his tests he continued with a local test, using a small high-tension battery of only 20 volts. At the conclusion of his experiments he was amazed to hear a Belgian fan replying with the call sign "S5" reporting that his signals were being received at good strength.

When the 20 volts had been reduced step by step, to only 4 volts, and the Belgian fan still reported readable signals, although rather faint, Mr. Lawler almost believed himself the victim of a practical

SCHENECTADY .- The Madrigal Quar tette at WGY is creating a mild sensat by its rapid gain of fan following.



# <u>Benjamin</u>

HERBERT H. FROST, Inc. Main Offices and Factory, Elkhart, Ind

# Cle-Ra-Tone Sockets



Specified for the New Radio Digest A-C Super

Used the world over by builders who know and want the best. Tube "floats" on fine-tempered springs. One-Used the world over by set 

New "Y" Type Socket for 5-Prong Radio Tubes



Spring suspension adds to life of tunes by absorbing mechanical shocks and jars, while permitting tubes to operate at maximum efficiency.

9036—With mounting base....\$1.20 9037—For mounting to \$16" or

Benjamin Electric Mfg. Co.

# Balkite Adds New Line

The Balkite Adds New Line

The Balkite line of B power units and chargers has been augmented by the new Balkite Combination Radio Power Units, which once connected to the A battery and set, and plugged into the light socket, supplies automatic power to both circuits. This unit is controlled by the filament switch already on your set and is entirely automatic in operation.

Like all other Balkite units it does not use tubes and will serve any set requiring 4 or 6-volt A batteries, and up to 30 milliamperes at 135 volts of B current.



# What Kind of Voice Has Your Loud Speaker?



or Does it register clear, natural Human Tones? <u> Me New Muter Clarifier</u>

(Output Transformer)

on your set will astonish and delight you by immediate, almost unbelievable improvement in reception. In nine cases out of ten that weak, distorted voice issuing from the speaker unit is suffering paralysis from high "B" Voltage. The Clarifier protects Speaker coils from this shattering current, assuring longer life as well as strong, full tone, clarity and volume. and volume.

If your speaker is one of the great majority that fail to respond properly to the output of the set—you need a Muter Clarifier. It's the only thing that will remedy the cause. Easily attached in a few seconds without disturbing set. Try it out to your own satisfaction on our liberal guarantee—you won't recognize your set!

# See Your Dealer-Or Send Direct

Dealers can easily secure Muter Products for you from leading Jobbers. If, however, you have any difficulty in obtaining from your dealer, mail coupon direct to us. Prompt shipment will be made upon receipt of price or C. O. D. if preferred. Give your speaker a chance to produce its utmost. Mail coupon today.

# Leslie F. Muter Company

76th and Greenwood CHICAGO, ILL.

Dept. 823-N



Dependable Products

Popular Priced Line

Send for comprehensive Catalog



# Use This Coupon F. MUTER CO. 76th and Greenwood Ave. t. 823-N Chicago, Ill. Dept. 823-N ☐ Send Muter Clarifier at once, postage prepaid. \$5.00 is enclosed. ☐ Send C. O. D. ☐ Send complete Muter Catalog.

State.....

# OFFICIAL CALL BOOK AND LOG

Corrected Every Issue-

# KDKA

E. Pittsburgh, Pa., 315.6m-950kc, 50,000 watts Westinghouse Elec. & Mig. Co. Daily ex Sun, 10 am, 12n., 3:05 pm, 4:35, markets, weather; 11:57, time; 2:30 pm, and every 30 min, baseball; 5, dinner concert; 6:20, road reports. Daily ex Sun, 521, 7, WJZ. Tues, 6 pm, sacred songs; 10:35, Grand theater revue. Wed, 6:30 pm, power; 7:30, Homer Smith, concert. Thurs, 6:30, Fri, 10:30 pm, dance program. Sun, 1 pm, WJZ; 5:30, 6:30, baseball; 6, Midsummer Dream, KDKA Little symphony; 7:15, WJZ.

KDLR

Devils Lake, N. Dak. 230.6m-1300kc. 15 watts.
Radio Elec. Co. Announcer, Harold Serumgard.
Daily ex Sun, 12-12-30 pm, weather, 6-6:30, markets.
Mon, 9:30-11:30 pm. Wed, 8-9 pm, band. Sun, 11
am, church, 4:30-6. Founded Jan. 25, 1925. Cen-

# KDYL -

Sait Lake City, Utah. 258-5m-1160kc. 100 watts. Intermountain Broadcasting Corp. Announcer, Philip G. Lasky. Slogan, "Out on the Great Divide." Daily ex Sun, 2-5 pm, 6-12 mid. Sun, 10-12 am. Mountain.

Burbank, Calif. 228-9m-1310kc. 250 watts. Earl L. White. Daily ex Sun, Wed, Fri, 11 am-1 pm; 6-7, 8-10. Fri, 5-6 pm. Last Sat, in month, 10-1 am. Pacific.

Portland, Ore. 239.9m-1250kc. 2,500 watts. Western Broadcasting Co. Daily ex Sun, 10-12:30 pm, 6-12 mid. Sun, 6-11 pm. Pacific.

# KFAB —— —

Lincoln, Nebr. 309.1m-970kc. 2,000 watts. Nebraska Buick Auto Co. Announcer, Gayle Grubb. Daily ex Sun, 9;30-9;55 am, weather reports; 3-4 pm, Mon, Tres, Wed, Fri, 10:30-11 am, hone economics. 11:45-12:30 pm, 1:15-1:30 pm, talks; 3:30-4 pm, 5:30-6:30, 8:05-8:30, college of agriculture; 8:30-10:30. Thes, Sat, 3-4 pm, Sat, 9:30-9:55 am; 5:30-6:30, 8:30-10:30. Thes, Sat, 3-4 pm, Sat, 9:30-9:55 am; 5:30-6:30 pm, 8:30-10:30. Thes, Sat, 3-4 pm, Sat, 9:30-9:55 am; 5:30-6:30 pm, 8:30-10:30. These Control of the same series of th

Phoenix, Ariz. 272.6m-1100kc. 500 watts. Electrical Equip. Co. Announcer, Arthur C. Anderson. Slogan, "The Voice of Phoenix." Daily ex Sun. Mon. 12.15-1.15 pm, 3-4, 6-7, 8-9. Daily ex Sun, Wed, 6-7 pm; 9-11, concert, news, stocks. Thurs, 9-10 pm. Sun, 11 am, 6 pm, 8. Installed July 30, 1925. Mountain.

Doise, Idaho. 285.5m-1050kc. 4000 watts 6 am-6 pm. 2000 watts. Independent School Dist, of Boise Mon, Tues, Wed, Thurs, Fri 12:30-1 pm, weather narkets, U. S. program. Tues, 7:30-8 pm, children's house, Thurs, 8-10 pm. Sun, 3-4 pm, 7:31-9 pm. Founded Oct. 1921. Mountain,

Havre, Mont. 275.1m-1090kc, 50 watts, F. A. Buttrey Co. Announcer, E. A. Baer. Daily ex Sun, 12:30-1:30 pm, music, markets, weather reports. Wed, 7:30-9 pm, Sun, 10:30 am, 2:30 pm. Founded 1921. Mountain.

# KFBC

San Diego, Calif. 247.8m-1210kc. 100 watts. Howard Shores. Daily ex Sun, Fri, 12-1 pm. Daily, 8-10 pm. Sat, 10 pm. Sun, 9-10 am. Bible lesson, sermon. Pacific,

Sacramento, Calif. 535,4m-560kc. 100 watts. Sacramento Bee, Kimball-Upson Co., Mon. Announcer R. K. Clark. Mon, Thurs, Sat, 7:30-10 pm. Founded 1921. Pacific. KFBL —

Everett, Wash. 223.7m-1340kc, 50 watts. Lesse Bros. Mon, Wed, Fri, 6:30-8 pm. Tues, Thurs, Sat, 7-8 pm. Thurs, 9:30-10:30 am. Sun, 11-12 mid.

Laramie, Wyo. 428.3m-700kc. 500 watts. Bishop N. S. Thomas. Announcer, F. C. Smith. Sunday

Phoenix, Ariz. 243.8m-1230kc. 125 watts. Nielsen Radio Supply Co. Aunouncer, E. A. Nielsen, Slogan, "Kind Friends Come Back." Mon. Thurs, 8-9 pm. Sun. 12-2 am, 9:30-10:30 pm. Mountain.

Sapta Barbara. Calif. 211.1m-1420kc. 50 watts Santa Barbara Broadcasting Co. Daily ex Sun, 12-1 pm, 5:45-7, 7-7:20, 7:20-7:30. Mon, Tues. Wed, Thurs, 7:30-9:30 pm, Fri, 7:30-10 pm. Sat, 12-1 pm, 6:15-7:30 pm. Sun, 7:15-8:15 pm, 8:15-9:15. Pacific.

Beaumont, Tex. 483.6m-620kc. 500 watts. Mag-nolia Petroleum Co. Announcer, Magnolene Mike. Slogan, "Kall for Dependable Magnolene," Tues, Fri, 12:30-12:55 pm, band concert; 8-10, concerts. Sun, 11-12 m, 8-9 pm. Founded Oct. 1, 1924. Central.

# KFDX —— –

Shreveport, La. 236.1m-1270kc. 250 watts. First Baptist church. Announcer, John S. Ramond. Wed, 9-10 pm. Sun, 10:50-12 n., 7:45-9. Founded 1922. Central.

# KFDY -

Brookings, S. D. 394.5m-760kc. 500 watts. State College of Agriculture and Mechanical Arts. An-nouncer, Don Williams. Daily ex Sun, 12:15-1:15 pm. Central.

# KFDZ -

Mirneapolis, Minn. 215-7m-1390kc. 10 watts, Harry O. Iverson. Sat, 8 pm. Central.

Portland, Ore. 214.2m-1400kc. 50 watts. Meier & Frank Co., Inc. Announcer, L. W. Jones. Daily ex Sun, 12 m, weather reports; 4-5 pm, music, 6-7.

Denver, Colo. 247.8m-1210kc, 250 watts. Eugene P. O'Fallon, Inc. Announcer, J. H. Hathaway. Daily ex Sun, 7:15 am. gym; 10, 11, 2, 4, 5, 6. Tues, Thurs, 8 pm. Fri, 8 pm. Sat, 9 pm. Sun, 9 am, 5 pm. Mountain.

St. Joseph, Mo. 230.6m-1300 kc, 1000 watts. J. L. Seroggin. Announcer, Clarence Koch. Daily ex Sun, 5;30-7;30 am, music, 8;30, 10, 11, 12, markets; 2, music; 6;30-7;30, 8;30-10. Founded 1922. Central. Founded Nov. 1921.

Kellong, Idaho. 232,4m-1290kc. 10 watts. Bunker Ilill & Sullivan Mining & Con. Co. Announcer, Walter C. Clark. Slogan, Voice of the Coeur D'Alenes." '70n. Thurs, 7-8 pm. Sun, 11 am, 7:30 pm. Pacific.

# KFGQ -

Boone, Iowa. 209.7m-1430kc. 10 watts. Boone Biblical school. Founded April 1923.

Wichita, Kan. 245.8m-1220kc. 500 watts. Hotel Lassen. Announcer, J. L. Fox. Daily ex Sun, 8:30 am, 9, 10, 11, 1-2 pm, markets; 1:15, music. 7:30-9. Sun, 9:30 am, 7:30 pm. Founded Dcc. 1, 1925. Central.

Gunnison, Colo. 254.1m-1180kc. 50 watts, Western State College of Colorado. Announcer, E. Russell Wightman, "Where the Sun Shines Every Day." Tues, Fri, 7-9:30 pm, Founded May 1922. Mountain.

Oskaloosa, Iowa. 212.6m-1410kc. 10 watts. Pen College. Announcer, Donald Haworth. Tues, Fri 7 pm. Fri, 9:45 am. Sun, 4 pm. Central.

Los Angeles, Calif. 468.5m-640kc, 5000 watts. Earle C. Anthony, Inc. Announcer, Leslie Adams. Slogan, "A National Institution." Daily ex Sat, Sun, 5:30-11 pm. Sat, 5:30-2 am. Sun, 10-11 am, 6-11. Installed Spring, 1920. Pacific.

Portland, Ore. 214.2m-1400kc. 50 watts. Benson Polytechnic School. Announcer, Albert Skei. Omar Bittner. Tues, 8:15-9:15 pm. Pacific.

Spokane, Wash. 245.8m-1220kc, 100 watts. North Central High School.

Juneau, Alaska. 225.4m-1330kc. 10 watts. Alaska Elec. Light & Power Co. Announcer, O. E. Schoem-bell. Mon, Wed, Fri, 6-7 pm. Alaskan time.

# KFKB -

Miliord, Kan. 241.8m-1240kc. 2500-1500 watts. J. R. Brinkley, M. D. Mon, Fri, 6-7 pm, 8-10. Tucs, Thurs, Sat, 6-7 pm. Wed, 6-10 pm. Sun, 8-10:30 am, 6-10. Central.

Lawrence, Kan. 254.1m-1180kc. 500 watts. University of Kansas. Announcer, Leland Barrows. Mon, Thurs, 7-8 pm. Founded Dec. 15. 1924. Central,

# KFKX -

Chicago, 111. 526m-570kc. 2500 watts. Westing-house Elec. & M(g. Co.

# KFKZ -

Kirksville, Mo. 225.4m-1330kc. 15 watts. State Teachers College. Announcer, F. M. Henry, Mon. 8:30-9:30 pm. Thurs, 8-9 pm. Founded 1923. Central,

Galveston, Texas. 270,1m-1110kc. 100 watts. George R. Clough.

Sioux City, Iowa. 440.9m-680kc. 100 watts. Morningside College. Daily ex Sun, Sat, 11:40-12:30 pm. Tues, Wed, Thurs, Fri, 7:30-8:30 pm. Founded 1924. Central.

# KFMX –

Northfield, Minn. 236.1m-1270kc. 500 watts. Carleton College. Daily, 10:30 am, time. Tues, 9:30 pm, talk. Wed, Fri, 9-10 pm, concerts. Sun, 7 pm. Central.

Shenandoah, lowa, 461.3m-650kc, 2000 watts, am-7pm, 1000 watts, Henry Field Seed Co. An nouncer, Henry Field, Slogan, "Friendly Statio in a Friendly Town," Daily ex Sun, 6-8:30 pm 10-11, 12:30-2 pm; 3, rocking chair time; 5-7. Sur 10:45 am, 2 pm, 3-4, services; 6, Golden Rule church service. Founded Feb. 1924. Central.

# CHALLENGE!

NE DOLLAR will be paid to the Radio fan submitting the most errors in any one station's listing in this Official Call Book and Log. Letters must reach Radio Digest office not later than a month from date of issue corrected. Readers are not limited to correcting one station, but such corrections must be certified by the stations themselves, and NOT by comparison to other so-called accurate broadcasting directors and lists. Readers also must live in same state or province as stations corrected are located. Station verifications must accompany corrections.

That's just how sure Radio Digest is that this Official Call Book and Log is correct! To make the challenge four for everyone breedesting etc.

is correct! To make the challenge fair for everyone, broadcasting stations and their employes are barred from this offer.

In this issue is a complete alphabetical arrangement according to wave lengths, a wave length index, and a state, city index of stations. The information contained in each and a state, city index of stations. The information contained in each station data listing is given in the following order: Call letters, city, state, watts antenna input, owner's name, announcer's name, slogan used, if any, name of listener in "club," schedule of operating hours, and kind of time used, as "Central," "Mountain," etc.

Each issue of Radio Digest gives one the most complete and accurate Call Book and Log obtainable. This service is original with this publication, and has been maintained from the start. Right of reproduction without permission of any or all of the data contained herein is forbidden.

Fond du Lac, Wis. 267.7m-1120kc. 100 watts. Fond du Lac Commonwealth Reporter. Daily ex Sun, 5 pm, news, markets, weather. Central.

Marshalltown, Iowa. 247.8m-1210kc. 100 watts.
Marshall Electric Co. Announcer, M. F. Easter.
Slogan, "Marshalltown, the Heart of Iowa." Daily
ex Sun, 10 am, 12-1:30 pm. Daily, 6 pm, 7. Tues,
Fri, 8:30 pm. Sun, 11 am, 7:30 pm. Founded June
2, 1923. Central.

Oklahoma City, Okla, 272.6m-1100kc, 750-1000 watts. National Radio Mfg. Co. Announcer, Tired Hand. Slogan. 'Radio Headquarters of Oklahoma City—The City of Opportunity.' Daily ex Sun, 9 am, nusic; 3-5, 7-10. Sun, 9 am, 1. B. S. A.; 10, Men's class; 11, services; 8, services. Central.

Astoria, Ore. 249.9m-1200kc. 15 watts, E. E. Marsh and Liberty theater. Announcer, E. E. Marsh, Wed, 11-11:30 pm, organ, Sun, 12:30-1:30 pm. Pacific.

Grand Forks, N. D. 333.1m-900kc, 100 watts. University of North Dakota. Daily, 12m, 6 pm, 8. Central. Founded Oct. 1923.

# KFJR -

Portland, Ore. 282.8m-1060kc, 100 watts. Ashley C. Dixon, Sr. Daily ex Sun, Sat, 5-6 pm, 7-8. Tues, 7-8 pm, 10-11. Thurs, 9:30-10:30 pm. Fri, 12-1 am. Sat, 1:30-3 pm, 5-6. Pacific. Founded May 18, 1925.

Fort Dodge, Iowa. 440.9m-680kc. 100 watts. Tunwall Radio Co. Announcer, Carl Tunwall. Daily ex Sun, 10:30-11:30 am, 5:45-7 pm. Tues, 10-11:30 pm. Thurs, Fri, 8:30-9:30 pm. Wed, 3-4 pm. Sun, 11-12:30 pm. Founded Oct. 1923. Central.

Fort Worth, Texas. 249.9m-1200kc. 50 watts. W. E. Branch. Daily ex Wed, Sun, 10:01 am, 4-6 pm, 6:30-7, 8:30-9:30. Sun, 1-3 pm, 7-9:30 pm. Central.

Greeley, Colo. 399.8m-750kc. 200 watts. Colorado State Teachers' College. Announcer, H. E. Green.

Seattle, Wash. 447.5m-670kc. 1000 watts. Rhodes Dept. Store. Announcer, Luther J. Jensen. Slogan, "The Gateway to the Orient." Mon. 7-11 pm. Tues, Wed, Thurs, Fri, 12:30-1 pm; 2-2:30, Mon. 7-8 pm; 8:15-9, 9:30-11. Tues, 7:30-10 pm. Wed, 7-10 pm. Thurs, 6:30-11 pm. Fri, 7-12 mid. Sat, 7-7:30 pm; 8:30-9:30. Sun, 2-3 pm. Pacific.

# KFON -

Long Beach, Calif. 241.8m-1240kc, 500 watts. Nichols & Warriner, Inc. Announcer, Hal G. Nichols. Daily and Sun, 9:30 am-12 mid. Pacific. Founded March 1924.

# KFOR -

Lincoln, Nebr. 217.3m-1380kc. 100 watts. Howard A. Shuman. Daily ex Sur '2:30-1:30 pm, 2-3:15. Mon, Tues, Wed, Fri, 6:4, pm. 'Central.

Omaha, Nebr. 258.5m-1160... 100 watts. Board of Education. Technical Hig Daily ex Sun. Sat, 12-1:30 pm. Tues, 7:30-9 in. Central. KFOY -

St. Paul, Minn. 285.5m-1050kc, 250 watts. Beacon Radio Service. Announcer, M. G. Goldberg. Daily ex Sun, 9 pm. Mon, 7 pm. Central. Founded Mar. 1924.

Dublin, Texas, 275.1m-1090kc. 15 watts, C. C. Baxter, announcer, Mon, Thurs, 8 pm. Sat, 11 pm. Sun, 7:30 am, 1:30 pm. Central.

Greenville, Texas. 230-6m-1300kc. 15 watts. The New Furniture Co. Announcer, Dave Ablowich, Jr. Slogan, "The New Furniture Co., the Home of Good Furniture," Located at Greenville, Texas, Where You Find "The Blackest Land, the Whitest People." Daily ex Sun, 1 pm, music. Tues, Wed, Fri, 8 pm. Sun, 11 am, services; 7:30 pm, irregularly. Central.

Los Angeles, Calif. 232.4m-1290kc. 250 watts Los Angeles Co. Forestry Dept. Irregular schedule

Carterville, Mo. 263m-1140kc, 50 watts. St. John M. E. church, S. Stogan, "Keeping Pace with Christ Means Progress." Daily ex Sun, 6:33-7 am, 1-2:30 pm, 2:30-3 pm. Central.

# KFPY

Spokane, Wash, 245.8m-1220kc. 250 watts. Symons Investment Co. Announcer, E. B. Craney. Daily ex Sun, Sat. 9:45-11 am, 3-5 pm, 6-10:30. Sun, 7-12 mid. Pacific.

St. Louis, Mo. 322.4m-930kc, 50 watts. The Principia. Sun, 8 pm. Founded May 9, 1924. Cen-

Fort Worth, Tex. 325,9m-920kc. 2000 watts. Lone Star Broadcast Co. Announcer, Roland M. Perry. Daily ex Sun, 9:30-10:30 am, 12-1 pm, 7:30-10:30. Wed, 9:30-10:30 am, 12-1 pm, Sun, 11-12 n, 6-7 pm, 7:30-11. Central.

Anchorage, Alaska, 344.6m-870kc, 100 watts. Anchorage Radio Club, Announcer, Frank O. Berry, Mon, Fri, 8-10 pm. Sun, 7:30-9 pm, Alaskan time.

Holy City, Calif. 249.9m-1200kc. 100 watts. W. E. Riker. Announcer, Arthur J. Landstrom. Daily ex Sun, 6-7:30 pm. Thes, Fri, 9:30-11 pm. Wed, Thurs, Sat, 9-10 pm. Sun, 11-12 n, 9-11 pm. Pacific.

Seattle, Wash. 217.3m-1380kc, 100 watts. KFOW, Inc. Pacific. Daily ex Sun, 12-1 pm, 4:30-5:30, 5:30-6, 6-7, 8:30-10, 10-11. Sun, 10-12 n. Pacific.

KFQZ
Hollywood, Calif. 232.4m-1290kc. 100 watts. Taft Radio Company. Announcer, Dave Ward. Daily ex Sun, 12-1 pm, 6-7, 8-11. Sun, 11-12n, 8-11 pm. Pacific. San Francisco, Calif. 454.3m-600kc. 1000 watts. Don Lee, Inc. Announcer, Harrison Holliway. Daily ex Sat, Sun, 7-9 am, 10-12 n., 12-1 pm, 4:30-12 mid. Sat, 7-9 am, 10-12 n., 12-1 pm, 4-12 mid. Sun, 12-1 am, 12-1 pm, 5-10:30. Pacific.

Columbia, Mo. 249.9m-1200kc. 500 watts. Stephens college. Announcer, La Von Rall. Slogan, "Where Friendliness Is Broadcast Daily," Daily ex Sun, 8:30-11:15 am, 3 pm, 6:30.3 Wed. 7:30-10 pm. Thurs, 7:30-11 pm. Sun, 7:30 am, 9:20, 10:45, 4 pm, 5, 7:30. Founded October 25, 1925. Central.

San Diego, Calif. 440.9m-680kc, 500 watts. Airfan Radio Corp. Daily ex Sun, 10-11 am, 6-10 pm. Sun, 11 am, 2-4 pm. Pacific.

Los Angeles, Calif. 275.1m-1090kc. 500 watts. Angeles Temple. Daily ex Sun, Mon, 10:30-11:30 am, 11:30-12:30, organ; 2:30-3:30 pm, program; 3:30-4:30, vesper; 6:30-7:30, Thes, 7:30-9:15 pm. Wed, Fri, 7:30-9:30 pm. Thurs, 7:30-11 pm. Sat, 7:30-9:30 pm. Sun, 10:30 am, 2:30-4:40 pm, 6:30-9:30, 10-11. Pacific.

# KFUL Galveston, Texas. 258.5m-1160kc. 500 watts. Thomas Groggan & Bros.

KFUM — Colorado Springs, Colo. 236.1m-1270kc, 100 watts. Corley Mountain Highway, Announcer, Howard Brown, Mon, Thurs, 6:30-9:30 pm. Tues, 8-9:30 pm. Fri, 4-5 pm, 6:30-7:30 pm. Sun, 11-12:30 pm. 6:30-8:30, Mountain.

St. Louis, Mo. 545.1m-550kc. 500 watts. Concordia Theological Seminary (Lutheran), Announcer, Herm, H. Holenstein, Mon. 8 pm, Wed, 9:30 pm, Sun, 9:15 pm, Fri, 6:30-7:15 pm, Founded Dec, 14, 1924, Denver, Colo. 227.1m-1320kc. 100 watts. Fitz-simons General Hospital, Educational and Recrea-tional Dept. Daily ex. Sat. and Sun, 10-11 am. Tues, Thurs, Fri, 7:30 pm. Mountain.

Ogden, Utah, 225-4m-1330kc. 50 watts. Peery Building Co. Tues, Thurs, Sat, 9:50-11:50 pm, dance music. Mountain.

KFUS -

Oakland, Calif. 256.3m-1170kc. 50 watts. The Gospel Radio. Slogan, "The City of Opportunity." Mon, Wed, Fri, 10-11 am, Wed, Fri, 8-9 pm. Sat. 1:30-2:30 pm, 6:30-7:30. Sun, 9-10 am, 11-12n, 7:45-9 pm, Pacific.

Salt Lake City, Utah, 499.7m-600kc. 50 watts. KFVD Venice, Calif. 208,2m-1440kc, 250 watts. W. J. & C. I. McWhinnie. Announcer, Leo. T. Cleary. Mary Elizabeth Carter. Daily ex Sun, 9:30-12 n., 4:30-6 pm, 9-12 mid. Wed, 12-2 am, Founded Aug. 1926. Pacific.

St. Louis, Mo. 234.2m-1280kc, 2000 6 am-6 pm. 1000 watts. Greater St. Louis Broadcasting Corp. Announcer, Thomas Patrick Convey. Daily ex Sun. Thurs, 9:30 am-11 pm. shoppers club; baseball, studio concert. Thurs, 9:30 am-6 pm. Sun, 11-9 pm. Central.

Independence, Kan. 225.4m-1330kc. 50 watts: First Methodist Episcopal church. Slogan, "The Voice of Southeastern Kansas from Independence, the Buckle on the Oil Belt." Tues, 8 pm. Sun, 10:55 am, 8 pm. Central.

# Houston, Texas. 238m-1260kc. 50 watts. KFVI Broadcasting Company. Announcer, Ted Hills, Daily, 8-9:30 am; 7-10:30 pm. Founded 1925. Central.

KFVS -Cape Girardeau, Mo. 223.7m-1340kc. 50 watts. Hirsch Battery & Radio Co. Announcer, W. W. Watkins, Slogan, "The City of Opportunity." Daily ex Sun. 12:15 pm, news, markets. Daily ex Sun 12:15 pm, news, markets, 7:15, music. Founded July 1925.

Hollywood, Calif. 361.2m-830kc. 500 watts. Warner Brothers. Announcer, William "Bill" Ray. Daily ex Sun, 12-2:30 pm. Mon, Tues, 5:15-11 pm. Wed, Sat, 4-11 pm. Thurs, 4:30-11 pm. Fri, 8-9 am, 12-3:30 pm, 5:15-11. Sun, 9-11 pm. Pacific.

San Bernardino, Calif. 222.1m-1350kc. 100 watts. L. E. Wall. Announcer, Chester Woods. Daily ex Sun, 4-6 pm, 7-11. Pacific.

# KFWF -

St. Louis, Mo. 214.2m-1400kc, 250 watts. St. Louis Tryth Center. Slogan, "The Voice of Truth." Announcer, Rev. Charles H. Hartmann. Sun, Thurs, 10:45 am, 7:45 pm, 9. Founded 1925. Central.

# KFWI —— ——

San Francisco, Calif. 267-7m-1120kc. 500 watts. Radio Entertainments, Incorp. Announcer, Clare Stixrood. Mon. Tues, Wed, Thurs, 8 am-12 mid. Fri, 7 am-12 mid. Sat, 7 am-2:30 am. Sun, 7:50-12 mid. Pacific.

# KFWM -

Oakland, Calif. 236.1m-1270kc, 500 watts. Oakland Educational Society, Announcer, G. R. Pollock Mon. Tues, Thurs, Fri, Sat, 8-70 pm. Thurs, 12:30-1:15 pm. 2-4. Tues, Wed, Fri, 2-3 pm. Tues, 12:30-2:30 pm. 7:30-9 pm. Sun, 9:30-10 am, 12:30-2:30 pm., 7:30-9, 10-11. Pacific.

# KFWO —— —

Avalon, Calif. 299.8m-1000kc, 250 watts. Major Lawrence Mott-Signal Corp. Slogan, "Katalina for Wonderful Outings." Daily, 12:30-1:30 pm, 7:30-9. Tues, Fri, Sun, 5-6 pm. Pacific,

Portland, Ore. 228.9m-1310kc. 50 watts, KFWV Broadcast Studio. Announcer, Curtis Phillips. Daily ex Sun, 10 am, 6-7 pm, 8-10, 10-11. Pacific.

Jerome, Idaho. 204m-1470kc. 15 watts. KFXD

Denver, Colo. 282.8m-1060kc. 500 watts. Colorado Radio Corp. Announcer, W. D. Pyle. Slogan, "The Voice of Denver." Mon, Tues, 6-10 pm. Wed, 6-12 mid. Fri, Sat, 6-12 mid. Sun, 8 pm. Mountain.

Colorado, 215.7m-1390kc. 15 watts. R. G. Howell. Daily ex Sun, 2-4:30 pm, 5:30-9. Sun, 7-7:30 pm. KFXR — -

Cklahomu City, Okla. 223.7m-1340kc. 50 watts. Exchange Ave. Baptist church, Sun, services.

Flagstaff, Ariz. 205.4m-1460kc. 25 watts. Mary M. Costigan. Announcer, Cecil J. Walters. Tues, Thurs, Sat, 10:15-11:15 pm. Mountain.

Oxnard, Calif. 238m-1260kc. 25 watts. Carl's Radic Den. Announcer, Carl Newcomb. Slogan, "The Baby Super Station." Daily ex Sun, 5-6 pm weather. crops, news, music. Pacific.

# Breckenridge, Tex. 211.1m-1420kc. 15 watts Kirksey Brothers Battery & Elec. Co.

KFYR

Bismarck, N. D. 239.9m-1250kc. 250 watts. Hoskins-Meyer, Inc. Announcer, C. F. Dirlam, Daily ex Sun, 12:30-1:30 pm, 6:30-12:30 mid. Sun, 10:30-12 n, 1-3 pm. Founded Dec. 1925.

Spokane, Wash. 260-7m-1150kc. 2,000 watts. Northwest Radio Service Co, Daily ex Sun, 11 am; 12, news; 12:15, markets; 5:40, stock, weather; 6, time; 6:15, 8, program, Sun, 11 am, 7:30. Pacific. KGAR —

Tucson, Ariz. 234,2m-1280kc, 100 watts, Tucson Citizen, Announcer, Harold S. Sykes, Daily et Sat, 7-9 pm. Sun, 11 am. Installed June 1926 \_\_\_\_

Seattle, Wash. 202.6m-1480kc. 100 watts. Arthur C. Daily, Moore Hotel, Mon, Tues, Wed, Fri 6:30-10 pm. Thurs, 6:30-10 pm. Pacific. KGBU —— —

Ketchikan, Alaska, 228.9m-1310kc, 500 watts Alaska Radio & Service Co, St. Joseph, Mo. 288.3m-1040kc, 100 watts. Foster-Hall, Inc. Announcer, R. D. Foster. Daily ex Sun, 12-1 pm. Wed, 5-7 pm. Tues, Thurs, Fri, 6-10 pm, Founded August 11, 1926. Central.

KGBY —— ——

Columbus, Nebr. 202.6m-1480kc. 50 watts. Thelen and Laddiken. Tues, Sat, Fri, 12:35-1:15 pm, 8-9:15. Central. KGBZ -

Vork, Nebr. 212.6m-1410kc. 100 watts, Announcer, Dr. George R. Miller, Slogan, "Keep Your Hogs and Poultry Healthy." Mon, Wed, Thurs, Fri, Sat, 12:20 am, markets, music, 12:30, 2:30, 7:30. Thurs, Sat, 10:30-11:30 pm, music. Sun, 9 am, service; 3 pm, musicale; Alternate Sun, 5 pm. Opened Aug. 1926. Central. KGCA -Decorah, Ia. 247.8m-1210kc. 10 watts. Bar Bear Clothing Company. Announcer, Charles Greenley, Daily, 12:30-1 pm. Wed, 7-8 pm. Sun, 2-4 pm. Central.

KGCB Oklahoma City, Okla. 215.7m-1390kc. 50 watts. Wallace Radio Institute.

KGCH — Wayne, Nebr. 293.9m-1020kc, 250 watts. Wayne Hospital. Announcer Merrill Shum. Slogan, "Remember Us When U. R. Ill." Daily ex Sun, Mon, 12:45 pm, 6:30 pm. Founded Aug. 1926. Central.

KGCI -San Antonio, Texas. 220.4m-1360kc, 15 watts. Liberty Radio Sales.

# KGCL -

Seattle, Wash, 230.6m-1300kc, 15 watts, Loui Wasmer, Archie Taft, Announcer, Herman Mon, Wed, Thurs, 6:30-7:30 pm, 8:30-11. Tues Fri, Sat, 3-7:30 pm, Pacific.

Concordia, Kan. 208.2m-1440kc, 50 watts. Concordia Brondensting Co. Daily ex Sun, 12:30-1:30 pm, 7-9. Founded Aug. 1926. Central.

ings, S. D. 208.2m-1440kc. 15 watts. Cut-Radio Broadcasting Service, Inc. KGCU ---- -

Mandan, N. D. 208.2m-1440kc. 100 watts, Mandar Radio Assn. Announcer, H. L. Dahners, Datly ex Sun, 12-1:30 pm, 6-7. Sun, 11-12n., 12:30-2:30

Vida, Mont. 243.8m-1230kc. 10 watts. First State Bank of Vida. Announcer, E. E. Krebsbach, Daily ex Sun, 12n., Sun, 11 am. Mountain.

Dell Rapids, S. D. 254.1m-1180kc. 6 am, 6 pm. 15 watts. Home Auto Co. Announcer, Marion Rollins. Sun, 1:30-5 pm. Central.

Rarrett, Minn. 205.4m-1460kc. 50 watts. Jaren Drug company. Daily ex Sun. 12:30 pm. musicale: 1, news. weather, markets; 4:30-7, musicale. Sun. 10:30-3 pm. 6.8. Licensed Sept. 15, 1926. Central.

# KGDJ -

wa. 202.6m-1480kc, 10 watts, R. Rathert,

# KGDM —

Stockton, Calif. 217.3m-1380kc. 10 watts. Peffer Co. Daily ex Sun, 10-11:30 am, 2-3 pm. Thurs, Sat, 8-10 pm. Central.

# KGDP —

ueblo, Colo. 223.7m-1340kc. 10 watts. Boy Scouts America. Tucs, 8 pm. Thurs, 9 pm. Mountain.

# KGDR -

San Antonio, Texas. 202.6m-1480kc. 15 watts Radio Engineers. Announcer, Joe B. McShane Daily ex Sun, 4:30-5:30 pm. Thurs, 9-10 pm. Cen

# KGDW -

Humboldt, Nebr. 206-8m-1450kc, 100 watts, Frank

# KGDX

KGDY -

preveport, La. 212.6m-1410kc. 250 watts. William

Oldham, S. D. 206.8m-1450kc, 15 watts. J. Albert Loesch, Thurs, 7:45-11 pm. Central. Founded Dec. 26, 1926. **KGEF** 

Los Angeles, Calif. 263m-1140kc. 500 watts. Trinity Methodist church. KGEH —

Eugene, Ore. 201.2m-1490kc. 50 watts. Eugene Broadcast Station. Daily ex Sun, 9-10 am, 12:15-12:50 pm, 6:30-8. Pacific. KGEK — –

Yuma, Colo. 263m-1140kc, 10 watts. Beehler Electrical Equipment Co.

# KGEN — -

El Centro, Calif. 225.4m-1330kc. 15 watts. E. R. Irey and F. M. Bowles.

# KGEO — —

Grand Island, Nebr. 205.4m-1460kc. 100 watts. Hotel Yancey, Mon. Wed, Sat, 8-9 pm. Tues, Fri, 12:25-12:55 pm. Sun, 2-4 pm. Central.

Minneapolis, Minn. 202.6m-1480kc. 50 watts. W. Herrmann. Mon, 7-8 pm. Tues, 8:30-11:45 Wed, 6:30-8:30 pm. Thurs, 8:30-10:30 pm. 6:15-9 pm. Sat, 3-5:30 pm. Central.

# KGER -

Long Beach, Calif. 215,7m-1390kc, 100 watts. C. Merwin Dobyns,

Lower Lake, Calif. 227.1m-1320kc, 50 watts. Lotowana Lodge. Mon. Wed, Fri, 7-9 pm. Sun, 2:30-3:30 pm, 8-9. Pacific. Founded Dec. 1926.

Fort Morgan, Colo. 218.8m-1370kc, 10 watts. City of Fort Morgan. KGEY –

# Denver, Colo. 201,2m-1490kc. 15 watts. J. W. Dietz.

Kalispell, Mont. 205.4m-1460kc. 100 watts. Flathead Broadcasting Assn. Daily ex Sun, 12:30-1:30 pm, 6:30-7:30 pm. Sun, Thurs, 9-11 pm. Sun, 11 am. Mountain.

KGFB — Iowa City, Iowa. 223.7m-1340kc. 10 watts. A. G. Dunkel. Daily ex Sun, 12-12:30 pm, 6-6:30. Mon, Tues, Wed, Thurs, Fri, 11-12 mid. Central.

va. Okla. 205.4m-1460kc. 25 watts. Earl E.

KGFG — Oklahoma City, Okla. 215.7m-1390kc. 50 watts. KGFH

La Crescenta, Calif. 223.7m-1340kc. 250 watts. Frederick Robinson.

San Angelo, Tex. 220.4m-1360kc. 100 watts. M. L. Eaves. Daily ex Sun, 9 am, 12n., 3 pm, markets, weather, 8-11, entertainment. Central.

# KGFJ

Los Angeles, Calif. 208.2m-1440kc. 100 watts. Ben S. McGlashan, Slogan, "Keeping Good Folks Joytul." Daily ex Sun, 6:30-9:30 am, 12-4:30 pm, 6-9, Pacific. Founded Jan. 18, 1927.

Hallock, Minn. 223.7m-1340kc. 50 watts. Kittsor County Enterprise. Mon. Wed, Fri. 12-1:30 pm. Agri, reports, news, music. Mon. Fri, 8-10:30 pm.

# KGFL

Colo. 222.1m-1350kc. 50 watts. Trinidad KGFM -

# Yuha City, Calif. 211.1m-1420kc. 15 watts. George W. Johnson.

KGFN Aneta, N. D. 199. 1500kc. 15 watts. Haraldson & Thingstad.

KGFO erre Haute, Ind. . m-1470kc. 100 watts. KGFO,

# KGFP -

Mitchell, S. D. 212.6m-1410kc, 10 watts. Mitchell Broadcast Co.

# **KGFW**

Ravenna, Nebr. 299.8m-1000kc, 10 watts. Otto F. Sothman. Announcer R. H. McConnell. Slogan, "Catering to the Home Folks," Daily ex Sun, 8-9 am, 11:45-12:15 pm, 3:15-4:15. Central.

No. 254.1m-1180kc. 200 watts. 6 am-6 pm. Dana McNeil.

Picher, Okla. 206.8m-1450kc. 100 watts. Dr. D. L. Connell. Daily ex Sun, 7:30-8:30 pm, 8:30-9:30. Central. On air Sept. 1, 1927. KGGH — Cedar Grove, La. 212.6m-1410ke. 50 watt. Bates Radio & Elec. Co.

# KGO

Oakland, Calif. 384.4m-780kc. 5000 watts. Gen. Elec. Co. Announcer, Howard I, Milholland. Daily ex Sun, 1-1:15 pm, weather, stocks; Daily ex Sun, Mon, 2-3 pm. Daily ex Sun, 5 pm, 5:30, kiddies club; 5:30-6:55, dinner concert. Daily ex Sat, Sun, 6:30-7:30 pm, Agri. program; 6:55-7:30, news, weather, baseball. Mon, Sat, 8 pm, N. B. C.; Mon, 9 pm, book chat. Tues, Wed, Thurs, Fri, 8 pm, studio program; 9, N. B. C. Tues, 10 pm, HM and JP; 10:30, surprise program. Wed, Thurs, Fri, Sat, 10 pm, dance program. Fri, 11:10 am, 11:30. Sun, 11 am, 6:30-7:30 pm, Sat 7-7:30 pm, Pacific.

# KGRC -

San Antonio, Texas. 220,4m-1360kc, 50 watts. Gene Roth & Co.

# KGRS

Amarillo, Texas. 243.8m-1230kc. 150 watts. Gish Radio Service. Announcer, L. B. Cornelius. Daily ex Sun, 6:30 am, 11:45, 6:30 pm. Mon, Wed, Fri, 9 pm. Sun, 11 am, 8 pm. Central.

# KGTT –

San Francisco, Calif. 206.8m-1450kc. 50 watts. Glad Tidings Temple and Bible Institute. Daily ex Sun. 12:30 pm, scripture reading. Tues, Wed. Fri. 8-10 pm. Wed. 2:30-4 pm, Divine healing service, Sun. 2:30-3 pm, Sunday school, 3-5, service; 7:30-10, service. Pacific. Founded Nov. 1925.

KGU – Honolulu, Hawaii. 270.2m-1110kc. 500 watts. Marion A. Mulrony. Announcer, Homer Tyson. Sun, Mon. Tues. Thurs. Fri. 12-1 pm; 4:30-5:30 pm, 7:30-9, 9:30. 157½ meridian. 2½ hours earlier than Pacific.

# KGW

Portland, Ore. 491.5m-610kc, 1,000 watts, Oregonian Publishing Co, Announcer, Dick Haller, Slogan, "KGW, Keep Growing Wiser." Daily ex Sun, 10-11:30 am, town crier, household helps; 6-7, concert, 8-9, Mon, 9-10 pm, Tues, 9:45-10 am, exercises; 2-3 pm, 7, travelog; 9-10, 10-12. Wed, 9-10 pm. Thurs, 7:30-7:45 pm, amusement guide; 7:45-8, lecture; 9-10. Fri, 9:45-10 am, exercises; 2-3 pm, 7:30-8, 9-10. Sat, 10-12 mid. Pacific.

Lacey, Wash. 243.8m-1230kc. 50 watts. St. Martins College. Announcer, Sebastian Ruth. Slogan, "Out Where the Cedars Meet the Sea." Sun, Tues, Thurs, 8:30-9:30 pm. Pacific.

Los Angeles, Calif. 405.2m-740kc. 500 watts. Los Angeles Times. Announcer, John S. Daggett. Slogan, "Kindness, Happiness, Joy." Daily ex Sun, Mon. 6 pm, trio; 6:30, children's hour; 7:30, lecture; 8-10, music. Sun, 10 am, 12:30 pm, 7, 8-10. Pacific.

Harlingen, Tex. 236.m-1270kc. 100 watts. Har lingen Music Company. Daily ex Sun, 1-3 pm. Mon Wed, Fri, 7:30-9 pm. Central.

# KHQ

Spokane, Wash. 370.2m-810kc, 1000 watts. Louis Wasmer, Inc. Announcer, C. P. Underwood, Slogan, "In the Friendly City," Daily ex Sun, 12:30-1:30 pm, 3-4, Daily ex Sun, Wed, 5-6 pm, 6-7, 8-9, 9-10, 10-12. Wed, 9-10 pm, 10-12. Sun, 10 am, Bible hour; 11-12:30 pm, 2-3:30, 6-7:30, 7:30-9, 9-10. Pacific.

# KIAF

Silhtipoc, Minn. 422.3m-710kc. 500 watts. Steele Co. Slogan, "Far from the Maddening Crowd." Mon. Wed, Fri, 7-8 pm. Sun, 2-3 pm. Central. KICK Atlantic, Iowa. 475.9m-630kc. 100 watts. Atlantic Automobile Co. Operated by Walnut Grove Products Co. Announcer, II. A. Marshall. Daily ex Sun, 11:50-12:30 pm, question box, markets. Daily ex Sun, 7:45-9 pm. Founded 1923. Central.

KJBS — San Francisco, Calif. 220.4m-1360kc. 50 watts Julius Brunton & Sons Co. Announcer, Jerry Whit-aker. Daily ex Sun, 9-11:30 am, 2-4 pm. Fri, 9:30-11 pm. Sun, 2:30-4:30 pm. Pacific.

# KJR

Seattle, Wash. 348.6m-860kc. 2500 watts. Northwest Radio Service Co, Announcer, W. C. Gordon. Daily ex Sun, 10:30 am, shopping service; 11:30, music; 12 n, time, weather; 5:40, stocks; 6, time; 6:10, box office; 6:20, news; 6:30, dinner concert; 8, studio concert; 10, time. Mon, 2 pm, Sun, 11 am, service; 6 pm, dinner concert; 7:45, organ; 8, service; 9:30, studio concert. Pacific.

Seattle, Wash. 265.3m-1130kc, 15 watts, City Seattle. KLCN -

# Blytheville, Ark. 285.5m-1050kc. 6 am-6 pm. watts. Edgar G. Harris.

Independence, Mo. 270.1m-1110kc, 1500 watts. Reorganized Church of Jesus Christ of Latter Day Saints. Midland Broadcasting Co. Announcer, Arthur B. Church. Tues, Fri, 6:30 am. Tues, 6:30 am, 4 pm, 8. Thurs, 4 pm, 8. Sat, 8 pm. Tues, Thurs, Sat, 7 pm. Sun, 8:30 am, 11, 2 pm, 3 pm, 6:30, 9:15. Central.

# KLIT

Portland, Ore. 206.8m-1450kc. 10 watts. Lewis I. Thompson.

# KLS

Oakland, Calif. 245.8m-1220kc. 250 watts. War-ner Bros. Radio Supplies. Announcer, Ralph Moore, Slogan, "The City of Golden Opportunity." Sun, 10-11 am. Pacific.

# KLX

Oakland, Calif. 508.2m-590ke, 500 watts. Oakland Tribune. Announcer, Charles H. Gabriel, Jr. Slogan, "Where Rail and Water Meet." Daily ex Sun, Mon, 3-5 pn, baseball. Daily ex Sat, Sun, Brother Bob. Mon, 5:30-6:30 pm. Daily ex Sun, 7-7:30 pm, news. Sat, 2-5 pm, football. Wed, Fri, 6:30-7:30 pm, 8-10:30. Pacific. Founded Nov. 20, 1922.

Denver, Colo. 267.7m-1120kc. 250 watts. Reynolds Radio Co. Announcer, Doc Reynolds. Slogan, "Pioneer Broadcasting Station of the West." Daily ex Sun, 10-12n, 1-3 pm. Mon, Tues, Wed, 8-10 pm. Fri, 6:30-9 pm. Sat, 9-12 mid, Sun, 9:30-12n, 7-9:30 pm. Mountain.

Shenandoah, Iowa, 394.5m-760kc, 1000 watts. May Seed & Nursery Co. Announcer, Earl E. May. Daily ex Sun, 5:30-7 am; 9-10, 11-12:30 n, 3-4 pm, 6-9. Sun, 8-9:30 am, 12:15-1:30 pm, 4-5. Central. **KMBC** Kansas City, Mo. 270.1m-1110kc. 1500 watts. Midland Broadcast Central. Announcer, Arthur B. Church, Daily ex Sun, 12 n, 9 pm. Central.

Medford, Ore. 249.9m-1200kc, 50 watts. W. J. Virgin, Daily ex Sun, 10-11 am, 12:15-1:15 pm, 6:15. Mon, Tues, Wed, Fri, 10 pm. Thurs, Sat, 11 pm. Sun, 11-12 n, 8-9:15 pm. Pacific. Founded KMIC

# Inglewood, Calif. 223.7m-1340kc, 250 watts. J. R. Fouch. Daily ex Sun, 12-2 pm, 5:30-8, 10-12: Sun, 11-12:15 pm, 8-9:15. Pacific. Founded Jan, 10, 1927.

Fresno, Calif. 365.6m-820kc. 50 watts. Fresno Bee. Announcer, W. F. Bragg. Mon. Wed, Fri. 7:15-9:15 pm. Sat, 9:15-12 mid. Pacific. Founded Oct. 1, 1922. KMMJ -Clay Center, Nebr. 379.5m-790kc. 790 watts. M. M. Johnson Co. Daily ex Sun, 8 am, 10, 11, 12: 30, L. S. live stock market; 1:30 pm, 7, 8, Sun, 8:45 pm. Wed, silent. Founded 1925. Central.

# KMO

Tacoma, Wash. 254.1m-1180kc. 250 watts. KMO. Inc. Announcer, Carl E. Haymond, Mon, Tues, Wed, Thurs, 10-11 am, 2-3 pm, Mon, 7-9:30 pm. Tues, 9-12:30 am. Wed, Thurs, Fri, 8-10 pm. Sat, 10-11 am, 2-3 pm. 6-7, 9-11, Fri, 10-11 am, 2-3 pm. Sun, 10-i30-12 mid., 6-7, 7:30-9. Pacific. Founded Aug. 25, 1926.

# KMOX —

St. Louis, Mo. 299.8m-1000kc. 5000 watts. The Voice of St. Louis. Announcer, George Junkin. Daily ex Sun, 8:40 am. 1 pm. markets. Daily ex Sun, Thurs, 2 pm. talks, 2:15, baseball; 5:15, music; 5:30, farm talks; 6, children's club; 6:30, orchestra; 7, scores; 8, 9, 10, 11, 12-1 am, music. Sun, 5 pm, 6, 8, 9, 10:30, 11:30, music. Central.

KMTR -

# Los Angeles, Calif. 526m-570kc. 500 watts. KMTR Radio Corp. Installed June 1925.

KNRC Santa Monica, Calif. 374.8nn-800kc. 500 watts. Keirulff & Ravenscroft Co. Daily ex Sun, Mon, 2:30 pm, band concert; 3, 3:15, 5, 6, 7, 8, 10. Tues, Sat, 2 pm. Sun, 10:45-11:45 am, 2:30-4 pm, 6:15-7, 7-8, 8-9, 9-10. Installed 1921. Pacific,

KNX -----Hollywood, Calif. 336.9m-890kc. 500 watts. Los Angeles Evening Express. Announcer, "Town Crier." Daily ex Sun, 6:45 ann, exercises; 8, prayer; 8:55. time; 9, news; 10, Town Crier; 10:30, economics; 1:30 pm, book talk; 2-4, 4:55, markets; 5, 5:30, music; 5:45, Town Crier; 6:30, dinner music. Mon. Tues, Wed, Thurs, Fri, 7-12 midnight. Sat, 7-2 am, Sun, 10-12:30 pm, church service; 12:45-1:45, 2-4, 6:30-9, 9-10:30. Installed Oct. 11, 1924, Pacific.

Denver, Colo. 325.9m-920kc. 10000 watts, 6 am-7 pm. General Elec. Co. Daily ex Sun, 11:45 am, weather, road reports, markets, Daily ex Sat, Sun, produce. Daily ex Sun, 12:05 pm. organ. Tues, Tri. 3. 2m. organ. Tues, Tri. 4. Daily ex Sat, matinee m. Ties, Thursters produce, news bulletins, Mon, 7:30 pm. Tues, farm question box. Wed, 7:30 pm. Tuy Town tales: Fri, 7:30 pm. S. S. Lesson. Mon, Wed, Fri, 8 pm. football, Sun, 11 am and 7:30 pm, service; 5 pm. music. Founded Dec. 15, 1924. Mountain. KOA —— —

KOAC — – Corvallis, Ore. 270.1m-1110kc. 500 watts. Oregon Agricultural College. Announcer, W. L. Kadderly. Mon, Wed, Thurs, Fri, 7 pm. Pacific.

# KOB

State College, N. M. 394.5m-760kc. 5000 watts. N. M. College of Agri. & Mech, Arts. Announcer, Robert Stewart. Slogan, "The Sunshine State of America." Daily 11:55-12:30 pm, time, weather, markets, road reports, 19:55-10:10, time, weather, road reports. Mon, 7:30-8:30, pm, farm program. Wed, Fri, 7:30-8:30 pm, music. Founded 1921. Alountain.

# косн — —

Omaha, Nebr. 258.5m-1160kc. 250 watts. Central H. S. Announcer, C. H. Thompson. Mon, Tues, Thurs, 7-10:30 pm. Sat, 12 midnight. Sun, 3:30 pm. Founded 1922. Central. KOCW —— — Chickasha, Okla. 252m-1190kc. 250 watts. Okla. College for Women. Tues, Thurs, 8 pm, nusic. Daily ex Sun, 12-1:30 pm, Sun, Mon, Wed, Thurs, 10:15 am, Mon, 10-1:30 am, musicale. Central.

Council Bluffs, Ia. 277.6m-1080kc. 4000-2000 watts. Mona Motor Oil Co. Announcer, Bob Hall. Daily ex Sat. Sun, 11:45 am, music, talks; weather, markets; 12. music; 1. "Aunt Sammy." Daily ex Wed. Sun, 5:50, weather, news; 6-12 mid. Sat, 12-12:30 am, 1 pm. Sun, 11 am, service; 12:15. Uncle Jack; 7, 7:30, 11. Founded July 10, 1925. Central.

# KOIN —— —— Portland, Ore. 319m-940kc. 1000 watts. KOIN. Inc. Daily ex Sun, 11 am, 12 n, 3, 6, 7, 7:30, 8. Sun, 6-7 pm, 7:50, 9. Pacific.

KOMO -Seattle, Wash. 305.9m-980kc. 1000 watts. Fisher's Blend Station, Inc. Announcer, G. Donald Gray. Daily ex Sun, 10 am-12:30 am, 10, inspirational; 10:15, health exercises; 10:30, home economics; 11, vocalists; 12 n, farm talks; 12:15, organ; 1:15, orchestra; 5:15, children's program; 5:45, stock and honds; 6, news; 6:15, orchestra; 9, N. B. C.; 10, program; 10:30, news; 10:45, dance orchestra. Pacific.

KOW Denver, Colo. 475.9m-630kc. 250 watts. The Associated Industries Broadcasting. Announcer, Lewis Grove. Daily ex Sun, 11 am-12 n, 1:30-3:30 pm, 6:30-10. Sun, 11 am, 6, service. Mountain.

KOWW-

Walla Walla, Wash, 299.9m-1000kc, 500 watts. Frank A, Moore, Slogan, "The Valley They Liked So Well They Named It Twice." Mon, Thurs, 4-5 pm, 7-12. Tues, 4-5 pm, 7-8, Wed, 4-5 pm, 7-9130. Fri, 4-5 pm, 7-10. Sat, 7-8 pm, 10-12. Sun, 11-12 n. Pacific. KPCB -Seattle, Wash. 230.6m-1300kc. 50 watts. Pacific Coast Biscuit Co. Daily ex Sun, 11:15-11:30 am. recipe; 11:30-12 n, musicale. Mon, Wed, Thurs, 5:30-6 pm, 6-6:30 pm, Tues, Fri, 8:30-9:30 pm, Mon, 7:30-8:30 pm, 9:30-10:30, Tues, 9:30-10:30 pm, Wed, 7:30-8:30 pm, Thurs, 7:30-8:30 pm, Fri, 7:30-8:30 pm, 9:30-10:30, Sat, 7:30-10:30 pm, Pacific. Founded April 1, 1927,

# KPJM ———

Prescott, Ariz. 214.2m-1400kc. 15 watts. Frank Wilburn. Irregular hours, news, sports. Los Angeles, Calif. 252m-1190kc. 500 watts. Bertram O. Heller. Slogan, "Rim of World Station." Daily ex Sun, 5 pm. 8, news, weather, road reports. Pacific

# KPNP Muscatine, Iowa. 211.1m-1420kc. 100 watts. Central Radio Co.

San Francisco, Calif. 422.3m-710kc. 1000 watts. Hale Bros. and the Chronicle. Announcer, Curtis Peck. Slogan. "The Voice of San Francisco. The City by the Golden Gate." Daily ex Sun, 6:45-7:15, 7:45, health drills; 10:30, utility features; 12 n, time, weather. Daily ex Sun, 1-7:30 pm concert, talks. Mon, Tues Wed, Thurs, Fri, 8-12 mid. Sat. 8-1 am. Fri, 12:45 pm, luncheon talks. Mon, 12-1 pm. Sun, 2:40 pm, orchestra; 6-10 mid, concert. Pacific.

KPPC

Pasadena, Calif. 228.9m-1310kc. 50 reates. KPO -

Pasadena, Calif. 228.9m-1310kc. 50 watts. Pasadena Presbyterian church. Wed, 7-9 pm. Sun, 9:45-12:45 pm, 6:45-9. Founded Dec. 25, 1924. Pacific. KPRC

Houston, Texas. 293.9m-1020kc. 500 watts. Ho ton Post-Dispatch. Slogan, "Kotton Port Rail C ter." Announcer, Alfred P. Daniel, Daily ex S 10:55 am, time; 11, weather, markets; 12 noon, tertainment. Daily ex Fri, Sun, 3-4 pm. Daily Sun, Fri, 7:30-9:30 pm. Sun, 8 pm, services; 9: 10:30 pm, music. Founded May 8, 1925. Central

# **KPSN**

Pasadena, Calif. 315.6m-950kc. 1000 watts. Pasadena Star-News. Announcer, George Frenger, Daily ex Sun, 12:15 pm, 6 pm, news. Tues, Thurs, Sat, 8-9 pm. Sun, 10:30-12:30 am. Installed Nov. 23, 1925. Pacific.

# KQV

Pittsburgh, Pa. 270.1m-1110kc. 500 watts. Dou-hleday-Hill Elec. Co. Announcer, Howard E. Clark. Mon. Wed, Fri, 4-5 pm, 6-9. Tues, Thurs, 4-5 pm, 6-7. Sun, 1-2 pm. Eastern.

# KQW

San Jose, Calif. 296.9m-1010kc. 500 watts. First Baptist church. Daily ex Sun, 6:30-6:50 pm, markets; 7-8, farm news; 7, weather; 7:05, news; 7:20, farm topics; 7:30, mail bag; 7:40, editorial; 7:55, riddles. Mon, Fri, 8-9 pm. Sun, 10:15 am, 7:30, service. Wed, 8-9:30, service. Pacific.

# KRAC -

Shreveport, La. 220.4m-1360kc, 50 watts, Caddo Radio Club. Announcer, Dr. Le Roy Scott.

. Calif. 256.3m-1170kc. 100 watts. First tional Church of Berkeley.

# KRLD —

Dallas, Texas. 461.3m-650kc, 500 watts, KRLD, luc. Announcer, Arthur W. Stowe, Slogan, "Where the Bluebonners Grow." Daily ex Wed, Sun, 12.30 pm, 7-8-30, 9:30-10:30, Mon, 11-12 mid, Tues. 8-8:30 pm, Thurs, 8-8:30 pm, Sat, 11-12 mid, organ, Central. Founded Oct, 30, 1926.

Los Angeles, Calif. 215.7m-1390kc, 250 watts Freeman Lang, A. B. Scott.

Seattle, Wash. 211.1m-1420kc. 50 watts. Radio Sales Corp. Announcer, William J. Calsamalia. Daily ex Sun, 9-10 am, 6-7:30 pm, 9-10:30 pm. Mon, Wed, Frj. 3:30-5 pm. Pacific.

Mahhaltan, Kan. 333.1m-900kc, 500 watts. Kansas State Agricultural College. Announcer, George Genmell. Daily ex Sat, Sun, 9-10 am, 9:55, 12:35 pm, 4, 7. Sat, 12:35 pm. Central.

# KSBA ———

Shreveport, La. 267.7m-1120kc. 1000 watts. Shreveport Broadcasting Assn. Announcer, W. G. Patterson. Daily ex Sun, 9:15 am, 12:15 pm, 2:15, market, news, weather. Tues, Wed, Thurs, Fr. 6:30 pm, 8. Tues, 11 pm. Sat, 9 pm. Sun, 11 am, 8 pm, services, Central. Founded. Dec. 1, 1924.

Sioux City, Iowa. 243.8m-1230kc. 500 watts. Perkins Brothers Co. Daily ex Sun, 9:45 am, 10:45, 12:15, stock, markets, weather; 11:30-12:30 pm, news, music; 1:45-3:45 pm. Mon, Tues, Wed, Fri, 6 pm. Sun, 11 am, 7:30 pm, service; 2-4, musicale. Central.

# KSD

St. Louis, Mo. 545.1m-550kc, 500 watts. St. Louis Post-Dispatch. Announcer, W. P. Corwin, Daily ex Sun, 9:40 am, 10:40, 11:40, 12:40, 1:40, 2:40. Mon, 9:30-10:30 pm. Tues, 7-9 pm. Wed, 7-8:30 pm. Thurs, 6-7 pm. Fri, 6-8:30 pm. Sun, 5:20-7:45 pm. Central. Founded June 24, 1922.

# KSEI

Pocatello, Idaho. 333.11n-900kc. 250 watts. I Broadcasting Assn. Announcer, W. J. O'Col Daily ex Sun, 3-4 pm, 6-8, 9-11. Sun, 9-11 Mountain.

# KSL

Salt Lake City, Utah. 392.8m-990kc, 1000 watts. Radio Service Corp. of Utah. Announcer, Roscoe Grover. Daily ex Sun, 7:30 pm. Mon, Wed, 7:30 am, 7:45, 8. Mon, 6:30 pm, 7:15, 7:30, 8, 8:30. Tues, 7 pm, 7:15, 7:30, 8. 9. Wed, 10 am, 6:15 pm, 6:30, 7, 7:30, 8:30, 9:30. Thurs, 7 pm, 7:30, 8:30, Fri, 7:15 am, 10, 6:30 pm, 7:15, 7:30, 8, 9. Sat, 7:15 pm, 7:30, 10. Sun, 11 am, 3 pm, 5, 7:30, 9, 10. Mountain.

Santa Maria, Culif. 272.6m-1100kc. 100 watts. Santa Maria Valley Railroad Company. Announcer, Syd-ney C. Peck. Daily ex Sat, Sun, 6:30-9:30 pm. Sat, 7:30 pm. markets. Pacific.

# KSO

Clarinda, Iowa, 227.1m-1320kc, 500 watts, Berry Seed Co. Announcer, Joe Faassen, Slogan, "Keep Serving Others," Daily ex Sun, 6-7 am, 12-1 pm, talks, Duily ex Sat; Sun, 6:30-9 pm, Sun, 11-12 n. Founded Nov. 2, 1925. Central.

ux Falls, S. D. 209.7m-1430kc. 250 watts. ux Falls Broadcast Assn.

# KTAB -

Oakland, Calif. 280,2m-1070kc. 500 watts. Th sociated Broadcasters. Announcer, Lytton Spau Daily ex Sun, 8:45-9:15 am, prayer service; 9: shopping hour; 7-7:30 pm, shopping hour, Tues, Wed, Thurs, 6:30-7 pm, twilight, hour, Tues, Wed, Thurs, Fri, 8-10 pm, entertain Daily ex Sun, Sat, 5-6 pm. Sun, 10 am, 11 pm. Pacific.

# KTAP —

San Antonio, Tex. 228.9m-1310kc, 20 watts, Rob-ert B. Bridge, Alamo Broadcasting Co. Daily ex Sun, 6:30-7:30 am, 10:30-11:30, 12:30-2 pm, 6:30-8, 9:30-10:30. Mou, silent. Sun, 4-6 pm, 9:30-10:30. Central,

# KTBI

Los Angeles, Calif. 288,3m-1040kc. 500 watts. Bible Inst. of Los Angeles. Announcer, H. P. Herdman, Daily ex Sun, 8:45 am, 2 pm, 7:15-9. Sun, 10:45 am, 6, 6 pm, 7:15, 9:30. Pacific.

# KTBR

ortland, Ore. 282.8m-1060kc, 50 watts. M. E. rown, Pacific.

KTCL - Seattle. Wash. ash, 277.6m-1080kc. 500 watts. Amer-Telephone Co.

# KTHS

Ifot Springs National Park, Ark. 384-4m-780kc. 1000 watts. The Arlington hotel. Announcer, G. C. Arnoux. Slogan, "Kunt to Ilot Springs." Mon. Wed. Thurs, Fri. 12-1 pm, 8:30-10:30 pm. Tues. 12-1 pm, 6:30-8:30, 12-1 am. Sun. 11 am, 8:30-10:30 pm. Installed Dec. 20, 1924. Central

# KTNT -

Muscantine, lowa, 256.3m-1170kc, 5000 6 am-6 pm, 5500 watts, Norman Baker, Slogan, "The Home of the Calliophone and Voice of the lowa Farm Union," Announcer, Adam Reinemund, Daily ex Sun, 6 am, 8 pm, Daily ex Sun, 5at, 8 10 pm, Sun, 12 n, 2,30 pm, 8. Founded 1924, Central.

Antonio, Tex. 265.3m-1130kc, 2000 watts.
o Broadcasting Co.

Houston, Tex. 212.6m-1410kc. 5 watts. Uhalt Electric, Announcer, Bill Arnold. Daily ex Sun, 5:15-6:15 pm. Tues, 8-9 pm. Sat, 8-9:30 pm. Central.

# KTW

Seattle, Wash, 394.5m-760kc, 1000 watts. First Presbyterian church, Announcer, J. D. Ross, Slo-gan, "Hear Ye, Hear Ye, the Gospel," Sun, 11-12:30 pm, 3-4:30, 7-9:30, church service. Pacific,

# KUJ

Seattle, Wash. 199.9m-1500kc. 50 watts. Puget Sound Radio Broadcasting Co. Mon, Wed, Fri, 6-5 pm. Sat, 6-12 mid. Pacific. KUOA -

Fayetteville, Ark. 296.9m-1010kc. 500 watts. University of Arkansas. Sun, Mon, 7:30-9 pm. Thurs, 7:30-9 pm. Central. KUOM —— -

Missoula, Mont. 374.8m-800kc. 500 watts. University of Montana. Three days a week.

Vermillion, S. D. 483.6m-620kc. 250 watts, University of South Dakota, Announcer, C. J. Cosandey, Slogan, "South Dakota University for South Dakotans," Wed, 7:30-8:30 pm, Tues, 6:45-7:30 pm, Sun, 9-10 pm, Central.

# KUT

Austin, Tex. 232.4m-1290kc, sity of Texas. Announcer, Mon, Wed, 8 pm. Fri, 8 pm. Sun, 11 am, 7:30 pm. Founded 1925. Central.

Tacoma, Wash. 234.2m-1280kc, 50 watts. Puget Sound Radio Boardeasting Co. Daily ex Sun, 8-10 am. Wed, Fri, Sat, 6:15-9 pm. Sun, 11-12:30 am. 1:30-3:30, 3:30-4:30, 4:30-5:30, 7:30-9. Facific.

Bristow, Okla, 348.6m-860kc, 1000 watts. So western Sales Corp. Daily ex Sun, 8-9 am markets, 11:30, 12:30, 1:30-2:30, 2:45, 3-4; children's hour; 6-9, 12 mid, music. Fri, 11 dance. Sun, 9:15 am, Bible class; 1-2 pm, m 5-6, 6-7, 7-9, church service; 12 mid, music. tral.

# Seattle, Wash. 209.7m-1430kc. 50 watts. Voice of KWBS -

Portland, Ore. 199.9m-1500kc. 15 watts. Schaeffer

# KWCR -

Cedar Rapids, Iowa, 352-7m-850kc, 250 watts, Announcer, H. F. Paar, Slogan, The Voice of Cedar Rapids, Daily ex Sun, 6:30 am, 11:30, 4 pm, 5:30 pm. Mon, Wed, 9:15 pm, Fri, 10 pm. Sun, 11 am, 5:45 pm, 9:30. Central.

# KWG -

Stockton, Calif. 344.6m-870kc. 50 watts. Portable Wireless Telephone Co. Aunotincer, George J. Turner, Slogan, "Voice of the San Joaquin Valley," Daily ex Sun, 4-5 pm, news, concert, markets, 5-6 pm, 6-7:30, 8-10, concert. Wed, Thurs, Sat, 10-1 am, dance music. Sun, 9:30-10:30, organ. Pacific.

Portland, Ore. 228.9m-1310kc, 50 watts. Mon, Tues 3-4:30 pm, 6-10. Wed, 6-12 mid. Thurs, 6-11 pm. Fri, 6-10 pm. Sat, 6-8 pm. Sun, 12-1 pm, 8-9. Pacific

Kansas City, Mo. 222.1m-1350kc. 100 watts. Wilson Dungan Studios. Announcer, Elmer C. Hodges. Slogan, "Keep Watching Kansas City." Tues, Wed, Thurs, Fri, 7 pm, 9. Central.

Shreveport, La. 394.5m-760kc, 1000 watts. Henderson Iron Works & Supply Co, Daily and Sun, 9-12 mid. Central. Founded Jan. 8, 1925.

# KWLC -

Decoral, Iowa. 247.8m-1210kc. 50 watts. Luther College.

# **KWSC**

Pullman, Wash. 394.5m-760kc. 500 watts. State College of Washington. Mon, Wed, Fri, 7:30-9 pm, music, lectures. Pacific, KWTC -

Santa Ana, Calif. 352.7m-850kc. 5 watts. Dr. John Wesley Hancock Mon, 6:30-7:45 pm. Tues, 6:30-10 pm. Wed, 6:30-7:30 rm. Thurs, 6:30-10 pm. Fri, 6:30-8 pm. Sat, 6:30-9:30 pm. Pacific.

Le Mars, Iowa. 243.8m-1230kc. 1500 watts. Western Union College. Announcer, Rex Frolkey, Daily ex Sun, 9:30 am, 11:15, markets; 12:30-1:30 pm, 4-5. Daily ex Tburs, Sun, 7-8 pm. Sat, 10-12 mid. Central. Founded 1922. KWWG------

Brownsville. Texas. 277.6m-1080kc. 500 watts. Brownsville Chamber of Commerce. Slogan, "Kum to the World's Winter Garden." Daily ex Sun. 12 m, 6 pm. Mon, Thurs, 8:30-11.59 pm. Central.

Portland, Ore. 220.4m-1360kc, 50 watts. KXL Broadcasters. Announcer, A. R. Truitt. Slogan, "Entertainment, Education." Daily ex Sun, 9-10 am, 6-11 pm. Sun, 9 am-6 pm. Pacific.

KXRO --

# Aberdeen, Wash, 227.1m-1320kc, 50 watts, KXRO,

**KYA** San Francisco, Calif. 309,1m-970kc. 500 watts. Pacific Broadcasting Corp. Announcer, Edward J. Ludes. Daily ex Sun, 7-8 am, 10-12 n, 12:30-2 pm, 5:307-309, 8-10. Tues, Fri, 10:30 am, diet talk. Pacific. Founded Dec. 18, 1926.

Chicago, Ill. 526m-570kc. 2500 watts. Westinghouse Elec & Mfg. Co. Announcer, John Clark Daily ex Sun, 10:55, time; 5:30 pm, baseball; 5:45, markets; 6. hedtime story; 6:30, dinner concert; 7-9, WJZ; 9-10:30, program; 10:30, weather; 10:32, orchestra, Congress Carnival; 11:55, time, weather; Sun, 10:25, time, weather; 1 pm, WJZ; 5:30, reading; 7:30, WJZ; 9:30-10:30, program; 10:30, weather; 10:55, weather, time. Central.

# KZIR \_\_\_

Manila, P. I. 249.9m-1200kc. 20 watts. I. Beck, Inc. Daily, 8:30-10:30 pm.

# KZM

Oakland, Calif. 245.8m-1220kc. 100 watts. Western Radio Iustitute (Hotel Oakland). Announcer, Elhert Cowan. Daily ex Sun, 6:30-7:30 pm. Sun, 8-10 pm. Pacific. Founded June 29, 1921.

KZRN — Manila, P. I. 413m-726.1kc. 500 watts. Radio Corp. of Philippines.

KZRQ
Manila, P. I. 400m-750kc. 500 watts. Radio Corporation of the Philippines. Slogan, "Radio Manila."

# Washington, D. C. 434.5m-690kc. 1000 watts. United States Navy Dept. Daily 10:05 am. 3:45 pm, weather. Daily 12 n, 10 pm, time. Eastern. WAAD —

Cincinnati, Ohio. 267.7m-1120kc. 25 watts. Ohio Mechanics' Institute. Sat, 9:45 pm. Eastern.

# WAAF -

Chicago, III. 389.4m-770kc, 500 watts. Chicago Daily Drovers Journal. Announcer, Carl Ulrich. Daily ex Sun, 8:45 am, 10:50, 11, 12:50 pm. Daily ex Sun. Sat, 4:30, live stock and weather reports. Central. Founded May 22, 1922.

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Newark, N. J. 348.6m-860kc, 500 watts. I. R. Nelson Company. Announcer, Jack Van Riper. Daily ex Sun, 7-8 am, 11-1:30 pm, 4-6. Mon, Wed, Fri, 7-12:30 am. Tues, Thurs, Sat, 6:30-7:30 pm. Eastern. Experimental call 2XBA 65.18m.

Jersey City, N. J. 245.8m-1220kc, 300 watts. Bremer Broadcasting Corp. Announcer, Randolph Conroy, Slogan, "The Voice at the Gate of the Garden State." Daily ex Sun, 10:30 am, housewives hour; 6 pm, markets; 6:05, dinner music; 6:40, weather; 6:45, sports; 7, time. Mon, Thurs, Sat, 8-11 pm. Tues, 8-9 pm. Sn, 5:30 pm, 6, 7, time; 7:30, quartet; 8, program. Eastern. Founded Nov. 20, 1926.

Omaha, Nebr. 348.6m-860kc, 500 watts, Omaha Grain Exchange, Announcer, James Thompson, Slo-gan, 'Pioneer Market Station of the West.' Daily ex Sun, 8:30 am, 8:45, 9:15, 9:45, 10:15, 10:45, 11:15, 11:45, 12:15, 1:15, 1:35, 1:40, 8, 8:30, Daily ex Sat, Sun, 1:30-3:30 pm, Daily ex Wed, Sun, 7-9 pm, Founded 1921. Central.

Richmond Hill, N. Y. 325.9m-920ke, 2500 watts. Atlantic Broadcasting Corp. Mon, Wed, Fri, 7:30-1 pm. Eastern.

Kingston, Pa. 205.4m-1460kc. 250 watts. Markle Broadcasting Corp. Announcer, E. L. Jones. Slo-gan, "The Voice of Wyoming Valley. Daily ex Sun, 12-1 pm. Mon, Wed, Fri, 7-9 pm. Sun, 9:30-10;30 am, 10:30-12, 7:30-9. Eastern. WABI —

Bangor, Me. 389.4m-770kc. 100 watts. First Universalist church. Announcer. Prof. W. J. Creamer, Jr. Sun, 10:30 am, 7:30-9 pm. Eastern. 

Thiladelphia, Pa. 260.7m-1150kc, 500 watts. Keystone Broadcasting Co., Haveriord college. Hotel Lorraine, Mon, 6-11:30 pm. Tues, 6-12:30 am. Wed, 6-11:30 pm. Thurs, 6-11:30 pm. Fri, 6-12:30 pm. Sat, 6:30-11:30 pm. Sun, 8-11:30 pm. Eastern. WABW

Wooster, Ohio. 247.8m-1210kc. 50 watts. The College of Wooster, Dept. of Physics. Announcer, Frank C. Isely.

WABY — Philadelphia, Pa. 247.8m-1210kc. 50 watts. John Magaldi, Jr. Slogan, "Quaker City Sleep Dodgers." Club, "The American Broadcasting Club," Sun, 9 pm, music; 10:30, "Sleep Dodgers Session." East-

New Orleans, La. 247.8m-1210kc, 50 watts. The Coliseum Place Baptist church. Announcer, Charles B. Page. Slogan, 'The Station with a Message.' Sun, 11-12:15 pm, 7:30-8:45, church service. Central. Founded January, 1924.

Akron, Ohio. 296.9m-1010ke, 1000 watts. Allen Theater Broadcasting Station, Announcer, George F. Houston. Daily ex Sun, 11-12 noon, 5:30-6 pm. Mon, Wed. Fri, 8-11 pm. Tues, 9-10 pm. Thurs. 8-11 pm. Sun, 10:30-11:45 am, 12:30-1:30 pm, 3-5, 9-11 pm. Eastern.

Detroit, Mich. 243.8m-1230 kc. 100 watts. Albert B. Pariet Co. Announcer: Stanley G. Smith. Slo-gan, "Gateway to the Great Lakes." Mon, 8-12 mid, Wed, Fri, 8-10 pm. Sat, 12 mid. Sun, 10:30 am; 7:30 pm. Eastern. WAGM-

Royal Oak, Mich. 225.4m-1330kc. 50 watts. Robert L. Miller. Announcer, R. L. Miller. Mon, 8-12:30 am. Wed, Fri, 8-10:30. Pounded Oct. 3, 1925. Ccntral. WAGS -

Lexington, Mass. 215.7m-1390kc. 5 watts. J. Smith Dodge, Carl S. Wheeler. Daily ex Sat, Sun. 8:30-10:30 cm. Sat, 11 pm. Sun, 3-4 pm, 8:30-10:30. Eastern. Founded Oct., 1926.

Taunton, Mass. 214.2m-1400kc. 10 watts. A. H. Waite & Co., Inc. Off the air until October.

Columbus, Ohio. 282.8m-1060kc. 5000 watts. American Insurance Union. Announcer, Don Bernard. Daily ex Sun, 10:30 am, 10:55, time, 12-1 pm, music. news, markets, weather, Daily ex Sat, Sun, 2-4 pm, stock, music. Mon, Tues, Wed, Thurs, 6-7 pm. Fri, Sat, 6-7 pm. Mon, Fri, 7-12 mid. Tues, Sat, 10-12 mid. Eastern.

Willow Grove, Pa. 201.2m-1490kc. 50 watts. Albert A. Walker, portable.

# WAMD—

Minneapolis, Minn. 225.4m-1330kc, 500 watts. Radisson Radio Corporation. Stanley E. Hubbard. Slogan, "The Call of the North." Daily ex Sun, 10:30 am. musicale; 11, shopping news; 12, weather; 12:01, pm, organ; 5, readers' club; 5:30, musical moments; 5:45, news; 5:50, basehall; 5:58, time; 6, What's Doing Tonite; 6:03, fishing reports; 6:05, financial news; 6:15, dinner concert; 7, musicale; 10:45, musicale; Sun, 5:50 pm, basehall; 5:55, What's Doing; 6, dinner concert; 9:45, request program. Central.

Auburn, Ala, 319m-940kc, 1000 watts, Alabama Polytechnic Institute, Announcer, W. A. Young, Daily ex Sun, 12-1, 7-7:15 pm. Tues, Thurs, Fri, 9-10 pm. Installed 1922. Central.

# WARS —— — Brooklyn, N. Y. 227,1m-1320kc. 500 watts. Amateur Radio Specialty Co. Daily ex Sun, 4 pm, 12 mid. Sun, 12:30-3 pm. Eastern.

WASH —— — Grand Rapid, Mich. 256.3m-1170kc, 250 watts. Baxter Laundries, Inc. Daily ex Sat, Sun, 12:30-1:30 pm, 5:30-6. Thurs, 6-6:30 pm. Daily ex Thurs, Sun, 7-8 pm. Sun, 10-11:30 am, 4-5 pm, 7-8:30. Central, Founded March 13, 1925.

# Boston, Mass. 201.2m-1490kc. 100 watts, Edison Flec. Illuminating Co.

WBAA -W. Lafayette, Ind. 272.6m-1100kc, 500 watts, Purdue university, Announcer, J. W. Stafford, Daily ex Sun, 9:50 am, stocks, markets, weather. Frt. 7:15 pm, special program. Central.

# Harrisburg, Pa. 299.9m-1000kc, 500 watts. Penn-sylvania State Police. Announcer, A. E. Poorinan Daily ex. Sun, 10:30 am, 1:30 pni, 4, 7, police report fre protection, farm news. Eastern. Founded 1919.

www.americanradiohistory.com

Baltimore, Md. 285,5m-1050kc. 5090 watts. Consolidated Gas. Elec. Light & Power Co. Announcer, Stanley W. Barnett. Slogan, "The Station of Good Music," Daily ex Sat, Sun, 4-5 pm; 6:39-7;30, 7:30-10. Sun, 6-8 pm. Eastern. Founded Nov. 2, 1925.

# WBAO -

Decatur, III. 267.7m-1720kc, 100 watts, James Millikin University. University activities, Mon, Wed, 7-8 pm. Central.

Fort Worth, Tex. 499,7m-600kc, 1500 watts. Fort Worth Star-Telegram. Announcer, "The Hired Hand," Daily ex Sun., 9, 10, 11, 12 m, 1 pm, 2, 3, "Port of Missing Men." Mon, Tues, Thurs, Fri, Sat, 12:05-12:30 pm, 6-8 pm, 8-9. Mon, Tues, Fri, 10-12 mid. Mon, 10-12 mid. Sun, 11 am, church; 9:30-11. Central.

# WBAR -

Wilkes-Barre, Pa. 249.9m-1200kc, 100 watts. John H. Stenger, Jr. Slogan, "In Wyoming Valley, Home of the Anthracite," Tues, 6:30-11 pm. Thurs, 9-2 am. Sun, 5-9 pm. Eastern. Founded May, 1922.

Brooklyn, N. Y. 227.1m-1320kc. 500 watts. Brooklyn Broadcasting Corp. Mon, 11 am, 7-8 pm, 10-12. Tues, 6-7.30 pm, 10:30-12. Wed, 6-7 pm, 10-12. Thurs, 11 am, 7-10 pm. Fri, 6-8 pm, 10-12. Sat, 6-9 pm. Sun, 6-8 pm, 10:30-12 mid. Eastern.

Richmond, Va. 247.8m-1210kc, 100 watts, Grace Covenant Presbyterian church, Announcer, W. L. Pierce, Tues, 8 pm. Sun, 11 am, 7:45 pm. Eastern Founded Feb, 1924,

Chicago, Ill. 389.4m-770kc, 1000 watts. Atlass Investment Co. Daily ex Sun, Mon, 4 pm, 4:30, 7-11 pm. Thurs, 11-12 mid. Fri, 12:15-1:15 am. Sun, 12:30-2 pm, 4, 8-11 pm, 12-2 am. Founded 1922. Central.

Rossville, N. Y. 256m-1170kc, 1000 watts. International Bible Students' Association. Tues, 2-4 pm, 7-9. Mon, Tues, Thurs, Fri, 2-4 pm, 7-9. Wed, 2-4 pm, 6-7. Sun, 10-12 n, 2-4 pm, 7-9. Founded Feb., 1924. Eastern.

# Charleston, S. C. 499.7m-600kc. 75 watts. Washington Light Infantry. Slogan, "Scaport of the Southeast."

Chicago, Ill. 204m-1470kc. 100 watts. C. L. Car-

WBES -Takoma Park, Md. 296.9m-1010kc. 100 watts. Bliss Elec. School. Announcer, Wm. M. Johnson, Jr. Fri, 6-7 pm. Eastern.

Boston. Mass. 288.3m-1040kc. 500 watts. Boston Transcript Co.

Birmingham, Ala. 243.8m-1230kc. 250 watts. Birmingham Broadcasting Co. Announcer, Dud Connolly. Slogan, "The Biggest Little Station in the World." Daily ex Sun, 1-2 pm. Mon, Wed, Fri, 8-10 pm. Tues, 8-9 pm. Sun, 6:30-9 pm.

Brooklyn, N. Y. 211.1m-1420kc. 100 watts. North American Broadcasting Corp. Announcer, Edward McMahn. Mon, 8:30-12 mid, 12-2:30 am. Thurs, 8:30-10 pm. Fri, 8:30-12 mid. Eastern.

Petoskey, Mich. 239,9m-1250kc. 100 watts. Petoskey High School. Announcer, Carl Bowman. Tues, 9-10:30 pm. Fri, 8-9:30 pm. Sun, 10:30 am; church services; 3 pm, sacred concert. Central. WBBR —— —

Norfolk, Va. 236.1m-1270kc. 50 watts, Ruffner Junior High School, Announcer, Lee M. Klinefelter, Slogan. "The School You'd Like to Go To." Mon, 7:30-8:30 pm. Thurs, 8:30-9:30 pm. Eastern.

# WBBZ -

WBCN -Chicago, 111. 288.3m-1040kc. 500 watts. Great Lakes Broadcasting Co. Daily ex Sun, Mon, 11 am, Mrs. Peterson; 1-2 pm, 5-6, 7-8. Mon, 1-2 pm, 5-6. Sun, 10:30 am, church; 5-6 pm, 7:30-9:30. Central.

WBKN -

WBMS -Union City, N. J. 267.7m-1120kc, 100 watts. George Julius Schowerer. Slogan, "The Voice of Union City." Daily ex Sun, 12-1 pm, 5-6:30, 8-12 mid. Sun, 3-6 pm, 8-12 mid. Daily ex Sun, 8:30-12 mid. Sun, 1-3 pm, 7:30-11. Eastern.

Richmond Hill, N. Y. 325.9m-920kc. 500 watts. Atlantic Broadcasting Co. Tues, Sat, 6:30-10:05 pm. Eastern. WBRC ---- -

# ${f WBRE}$ -

Wilkes-Barre, Pa. 249.9m-1200kc. 100 watts. Announcer, Louis G. Baltımore. Mon. Fri, 12:30-1:15 pm, 6:30-12. Wed, 12:30-1:15 pm, 6:30-11:30. Sun, 9-12 mid. Eastern.

WBSO

Babson Park, Mass. 384.4m-780kc. 100 watts.
Babson's Statistical organization. Announcer, Marshall McCarroll. Daily ex Sun, 4-5 pm, 12-1 am.
Eastern. Founded Jan., 1927.

Sisiht, Wis. 270.1m-1110kc. 500 watts. Kopp Radio Co. Slogan, "The Station of Northern Wisconsin." Mon, 9-10 pm. Wed, 8-9 pm. Thurs, 7:30-8:30. Sun, 10-11 pm. Central.

WBAW

Nashville, Tenn. 247.8m-1210kc. 100 watts. Waldrum Drug Co. Announcer, Harry Stone. Sun, 7:30 pm. Central.

WBAX

WBBC -

WBBL —— ——

WBBP —

 ${f WBBW}_-$ 

Boston, Mass. 302.8m-990kc, 100 watts. Boston Information Service. Announcer, Nancy Howe. Daily ex Sun, 8-10 am, 2-4 pm. Eastern. Founded Jan. 29, 1927.

Detroit, Mich. 211.1m-1420kc. 100 watts, Braun's

# WBRS — –

Brooklyn, N. Y. 267.7m-1120kc. 100 watts, Arthur Faske. Announcers, L. W. Berne, Al. H. McGuire. Daily Sun, 12-2 pm, 3-5. Mon, Fri, 3-10 pm, Tues, 10-12 mid. Wed, 12 mid. Thurs, 6-8 pm. Sat, 6-8. Eastern. Founded Nov. 22, 1926.

WBNY

New York, N. Y. 236.1m-1270kc, 500 watts. B. A. Ruchome Corp. Daily ex Sat, 7-11 pm. Sun, 2:30 pm, 6. Founded 1925. Eastern.

WBRL —— -Tilton, N. H. 461.3m-650kc. 500 watts. Rooth Radio Laboratories. Tues; Thurs, Sat, 8 pm. Wed, 8:30 pm. Sun, 10:30 am, 7 pm, services. Eastern.

# WBZ

Springfeld, Mass. 333.1m-900kc. 15000 watts. Westinghouse Elec. & Mfg. Co. Announcer, Aidan Redmond, Daily ex Sun, 10:30 am, organ; 10:45, household hints; 11:20, weather; 6:27 pm, baseball, 6, organ; 6:30-10:30, 10:30, baseball, weather. Sun, 2 pm, W12; 7:30, baseball, weather. Sun, 2 pm, W12; 7:30, baseball, weather. Sun, 2 pm, W12; 7:36, music; 10:50, weather. Installed Sept. 19, 1921. Eastern.

# WBZA ---- ---

Boston, Mass. 333.1m-900kc. 500 watts. Westing-house Elec. & Mfg. Co. Same programs as WBZ.

# WCAC ---

Mansfield, Com. 535,4m-560kc, 500 watts. Connecticut Agricultural College. Announcer, Daniel E. Nohle. Slogan, "From the Nutmeg State." Mon, 7,15-8 pm. Sat, 7:30-8:30 pm. Eastern. Founded June, 1923.

# WCAD –

Canton, N. Y. 365.6m-820kc. 509-1000 watts. St. Lawrence University. Announcer, Ward C. Priest. Slogan, "The Voice of the North Country." Paily, 12:30 pm, weather, reports, talks, music, time. Wed, 8 pm. Eastern.

# WCAE -

Pittsburgh, Pa. 516.9m-580kc, 500 watts. Pittsburgh Fress, Daily ex Sun, 6:45-8 am, exercises; 8:15, 9:15, 10:15, 12:15, 2:15 pm, 5:15; 1:30, 3:40 pm, news; 2:30 pm, organ; 6, dinner music; 7, popular music; 3:03, 7:30, Uncle Kay Bee; 8-10. Sun, 6 pm, 7:15-10, WEAF. Eastern.

Columbus, Ohio, 535.4m-560kc, 250 watts. Entre-kin Elec, Co. Tues, 8-10:30 pm. Sun, 10:30 am, 12 n, 7:30-9 pm. Every other Sun, 4 pm. Eastern.

# WCAJ -

University Place, Nebr. 379.5m-790kc. 500 watts. Nebraska Wesleyan University. Announcer, J. C. Jensen. Daily, 10 am, convocation exercises; 4:30 pm, weather, news. Tues, Fri, 12 n. organ. Tues, 7:30 pm, Bible study; Wed, 8 pm, class; 9 pm, nusicale. Sun, 11 am, services; 4 pm, vesper. Founded Oct., 1921. Central.

Northfield, Minn. 236.1m-1270kc. 500 watts. Dept of Physics, St. Olaf College. Announcer, Hector Skifter. Slogan, "The College on the Hill." Daily ex Sun, 9:455 am. Mon, 7 pm; 8:15. Sun, 8:30-9:38 am; 3-4 pm. Central. Founded, 1922.

# WCAM-----

Camden, N. J. 223.7m-1340kc, 500 watts. City of Camden, Announcer, Harry E, Ehrhart, Mon, Wed, Fri, 7:30-10:30 pm., Eastern, Founded Oct. 26, 1926

# WCAO -

Baltimore, Md. 384.4m-780kc. 250 watts. Monumental Radio, Inc. Announcer, Wm. L. Atkinson, Mon, Wed, Fri, 6-11 pm. Sun, 11-12 n, 3-5, 9-14.

Rapid City, S. D. 247.8m-1210kc, 100 watts. South Dakorta State School of Mines, Amouncer, J. O. Kammerman, Daily ex Sun, 9:30 cm, 12:30 pm, weather, reports. Thurs, 7:30 pm, concert. Moun-

# WCAU -

Philadolphia, Pa. 336.9m-890kc. 500 watts. Universal broadcasting Co. Announcer, Stan Lee Broza. Slogan, "Where Cheer Awaits U." Mon. 5:30-112 pm. Tues, 5-11:30 pm. Wed, 5:30-12 mid. Thurs, 5:30-12 mid. Fri, 5:30-11 pm. Sat, 6:30-11. Sun, 2-11 pm. Eastern.

# WCAX ---- -

Burlington, Vt. 254.1m-1180kc. 100 watts. University of Vermont. Slogan, "The Voice of the Green Mountains." Fri, 7-8 pm. Eastern.

Carthage, Ill. 340.7m-880kc. 50 watts. Carthage College. Announcer Raymond Berke. Daily ex Sun, 11:40-12:15 pm. Mon, Wed, 7-8 pm. Central.

Allentown, Pa. 222.1m-1350kc. 100 watts. Queen City Radio station. Wed, 8:15-11 pm. Fri, 7:30-10:30 pm. Sat, 10-11 pm, dance music. Sun, 10 am, 5:30 pm. 7, church service. Eastern.

# WCBD —— -

VCBP
Zion, 1ll. 344.6m-870kc. 5000 watts. Wilbur Glenn Voliva. Announcer, J. H. DePew. Slogan, "Where God Rules. Man Prospers." Tues, Thurs, 9-11:30 pm, concert. Wed, 1:30-2 pm, organ. Thurs, 2:30-3:45 pm, service. Sun, 9-10:45 am, Bible school; 2:30-6 pm, church services; 9-11:30 pm. Founded May, 1923. Central.

WCBE

New Cricans, La. 227.1m-1320kc, 5 watts. Uhalt Brothers Radio Co. Amouncer, Joe Uhalt. Slo-gan, "Second Port U. S. A." Daily ex Sun, 11:30-12:30 nm, Daily, 7:30-8:30 pm, dance. Sun, 12:30-3 pm, dinner concert; 9, dance music. Central.

Baltimore, Md. 384.4m-780kc. 100 watts. Hotel Chateau. Announcer, Ilarry J. Doise. Mon, Wcd, Sat, 10-12 mid. Sun, 6 pm. March 25, 1923.

# WCBR -

Providence, R. I. 201.2m-1490kc. 100 watts. Charles H. Messter. (Portable.)

# WCBS -

Springfield, III, 209.7m-1430kc. 250 watts. Harold L. Dewing, Charles H. Messter, Slogan, "Home of Abraham Lincoln." Mon, 9-11 pm. Tues, Wed. Thurs, Fr. 8: 30-10;30 pm. Sun, 10:45-12 n, 12:30-2 pm. 6-7, 7:30-8. Central.

# WCCO —

Minneapolis-St. Paul, Minn. 405.2m-740kc, 7500, 6 am-6 pm, 5000 watts. Washburn-Crosby Co. Announcer, Paul Johnson, Slogan, "Service to the Northwest." Daily ex Sun, 9:30 am, program for day: 9:35, news; 9:45, weather, markets; 10:30, markets; 11:30, markets; 10:30, weather, 11:30, markets; 10:30, markets; 5:45, livestock. Mon, 8, U. of Miun; 9, program; 10, weather; 11, dance program; 11:9, program; 10, weather; 10:30, musicale; 10, weather. Wed, 6:45 pm; 8, WEAF; 8:30, program; 9, WEAF; 10, weather, grain; organ. Thurs, 6:15 pm, dinner noncert; 7:15, talk: 8, WEAF; 18, weather; 10:05, talk: Pri, 7, WFAF; 8, music; 9, WEAF; 9:30, music; 10, weather; 10:05, salk; 10, weather; dance program. Founded Oct. 1, 1024. Central.

ooklyn, N. Y. 211.1m-1420kc. 250 watts. Italian ucational Broadcasting Co.

Chicago, Ill. 483.6m-620kc. 1500 watts. Chicago Federation of Labor. Announcer, Maurice Wetzel, Slogan, "The Voice of Labor." Daily ex Sun, 4-12 mid. Central.

Coney Island, N. J. 218.8m-1370kc. 500 watts. Charles G. Unger. Daily ex Sun, 1 pm. Wed, Fri, 8 pm. Sun, 11 am. Eastern.

Camp Lake, Wis. 227.1m-1320kc. 100 watts. C. E. Whitmore, Slogan, "The Playground of the Lake Region." Daily ex Tues, Thurs, 11:30 am, 2:30-5:30, 7-12 mid. Central.

# WCLS

oliet, III. 215,7m-1390kc. 150 watts. M. A. Fel-lan Co. Slogan, "Will County's Largest Store," ues, Wed, Thurs, Fri, Sat, 8-11 pm. Sun, 9:30-2 n, 10-11. Central.

Culver, Ind. 258.5m-1160kc, 250 watts, Culver Military Academy, Announcer, C. F. McKinney. Daily ex Sun, 12 n, public service hour. Mon, 8-10:30 pm. Wed, 8-10:30 pm. Fri, 8-10:30 pm. Sun, 11-12:30 pm, chapel service. Founded 1925, Central.

# WCOA ---- -

Pensacola, Fla. 249.9m-1200kc. 500 watts. Municipal Broadcasting Station. Announcer, John E. Frenkel. Slogan, "Wonderful City of Advantages." Daily ex Sun, 10:30 am, 12:30 pm. Mon, Wed, Fri, 7 pm. Sun, 11 am, 12:30, 7:45 pm. Central.

Columbus, Miss. 230,6in-1300kc. 250 watts. Crystal Oil Co. Announcer, Park Balch. Founded Feb. 26, 1927.

yville, R. I. 225,4m-1330kc. 50 watts. Jacob

# WCRW-

Chicago, Ill. 223.7m-1340kc. 500 watts. Clinton R. White. Announcers, C. R. White, Charles P. Hughes. Slogan, "For Your Entertainment," Daily ex Sun, 11:30-1 pm. Daily ex Mon, 6:30-7:30 pm, 9:30-10:30. Central.

WCSH ----Portland, Me. 428,3m-700kc, 500 watts. Congress Square hotel. Announcer, L. T. Pitman, H. C. Wing. Daily ex Sat, Sun, 9-10 am, housewives' hour; 12-12:30 pm, stocks, weather; 2-3, musicale; 7-8, stocks, sports. Mon, 11:45 am, Civitans club; 9, WEAF, Tues, 8 pm, Strand theater; 9, WEAF, Wed, 8:30, WEAF; Thurs, 6:30 pm, WEAF. Fri, 7:30 pm, concert; 8, Treasure Hunters. Founded June, 1925. Eastern.

Springfield, Ohio. 256.3m-1170kc. 500 watts. Wittenberg College. Announcer, Lester Crowl. Fri. 8-9 pm. Central.

# WCWK-

Fort Wayne, Ind. 214.2m-1400kc, 250 watts. Chester W. Keen, Slogan, "The Home Sweet Home Station." Fri, 7-8 pm. Sat, 8-10 pm. Sun, 11-12 n, 5-5:30 pm, 5:30-6:30, 6:30-7:30 pm. Founded, 1924. Central.

# WCWS—

Danbury, Conn. 214.2m-1400kc. 100 watts. Bridge-port Broadcasting Station. Founded Aug. 2, 1926

Pontiac, Mich. 440.9m-680kc. 5000 watts. The Detroit Free Press. Announcer, C. D. Tomy. Club. "Red Apple Club." Daily ex Sun, 4 pm, music, 4:15, news, markets, weather; 5:45, Skeezix time. Eves' blue chain. Tues, 10-2 am, club. Eastern.

# WDAD -

Nashville, Tenn. 225.4m-1330kc, 1000 watts. Dad's Auto Accessories, Inc. Announcer, F. E. Exum. Slogan, "The Athens of the South." Mon, Wed, Sat, 11:45 am, 12:45, 3-4 pm, 9-10. Tues, Fri, 11:45 am, 12:45, 3-4 pm, 7-9 pm. Sun, 3-4:30 pm, 6:30. Central.

# WDAE —— -

Tampa, Fla. 267.7m-1120kc. 500 watts. Tampa Daily Times. Announcer, Bruce Lum. Daily ex Sun, 7-12 mid. Sun, 7:30-9:30 pm. Eastern.

# WDAF -

Kansas City, Mo. 370.2m-810kc. 1000 watts. Kansas City Star., Announcer, H. Dean Fitzer. Club, "Nighthawks." Daily ex Sun, 8:30 am, 9:30, 10:30, 12:15 pm, grain quotations. Daily ex Sun, 8:30 am, 9:30, 10:30, 8 am. Bible lesson; 12-1 pm, around the town; 3-4, matinee; 6-7, school of the air; 7-10, musicale; 11:45-1, Nighthawk frolic. Sun, 3 pm, 4, 5, 6, baseball. Sun, 4-6 pm, band concert. Founded June 5, 1922. Central.

# WDAG -

Amarillo, Tex. 263m-1140kc. 250 watts. J. Laurence Martin. Daily ex Sun, Fri, 12:45-1:45 pm. weather, markets, farm; 9-10:30 pm, music. Fri, 8-9 pm. Sun, 9:45-10:45 am, 7:30-9:30 pm. Central.

# $\mathbf{WDAH}$

El Paso, Tex. 234.2m-1280kc. 100 watts. Triuit Methodist church. Announcer, Louis Gemoets Wed, 7:30-10 pm. Sun, 9:30-12 n, 7:30-9 pm Founded Spring 1924. Mountain.

# WDAY------

Fargo, N. D. 361.2m-830kc. 250 watts. Radic Equipment Corporation. Announcer. Kenneth M. Hance. Slogan, "The Biggest Little City in the World." Daily ex Sun, 7-9 am, news, 9, markets 10, weather, news; 10:15, chapel service; 11, markets; 12, music; 1, 3-4, 5, musicale; 5:15, 5:45 news; 6, entertainment: 7:30-8:15. Sun, 10:30 am service; 1 pm, 2, 4-6. Central. Founded May, 1922

# WDBJ -

Roanoke, Va. 230.6m-1300kc. 250 watts. Richardson Wayland Elec. Corp. Announcer, J. W. Johnson. Slogan, "Roanoke Down in Old Virginia." Daily ex Sun, 12-1 pm, music; 5:30-6:45, music, news, weather. Mon, 8-9 pm. Wed, Sat, 9 pm. concert. Sun, 7:45 pm, church. Eastern.

# WDBO —— —

Orlando, Fla. 288.3m-1040kc, 1000 watts 6 am-6 pm. 500 watts. Orlando Broadcasting Co. An-nouncer, Harold Dauforth. Slogan, "The Voice of Central Florida." Daily ex Sun, 7.39-10.30 pm. Sun, 10:45 am, 4 pm, 7:30. Founded 1921. Eastern.

Wilmington, Del. 265.3m-1130kc. 100 watts. Wilmington Elec. Spec. Co. Announcer. Harvey Smith, Slogan, "The First Broadcasting Station of the First City of the First State." Tues, Thurs, Sat. 8-11 pm. Sun, 10-12 mid. Eastern.

# WDGY -

Minncapolis, Minn. 260,7m-1150kc. 500 watts. Dr. Ceorge Young. Mon, Wed. 7-8 pm, 10-12. Tues. 7-12 mid. Thurs. 7-10 pm. Fri, 7-8 pm. 10-12. Sat. 7-8 pm. Sun, 2-6 pm. Central. Founded 1923.

Chattanooga, Tenn. 245.8m-1220kc. 500 watts. Chattanooga Radio Co., Inc. Announcer, Frank S. Lane. Daily ex Sun, 12-1:15 pm. Moo, 7-11 pm. Tues, Wed, Fri, 7-10 pm. Sat, 9-10 pm. Sun, 11-12:10 pm, 1-2, 7:30-9. Founded 1925. Central.

New Haven, Conn. 232.8m-1060kc. 500 watts. Doo-little Radio Corp. Aunouncer, F. M. Doolittle. Daily ex Sat. Sun. 11-12 mid, 6:45-10 pm. Sun, 11-12:30 pm. Eastern.

# WDWF

Cranston, R. I. 374.8m-800kc. 500 watts. Dutee W. Dijet. Jrc. Slogan, "Quality First." Eastern.

Asbury Park, N. J. 361.2m-829kc. 590 watts. Radio Industries Broadcast Co. Announcer, Franklin D. Scott. Daily, 2-12 mid. Eastern, Founded July 1, 1992.

# WDZ

Tuscola, III. 277,6m-1080kc. 100 watts. James L. Bush. Announcer, G. R. Muir. Daily ex Sun, 9 am, 9:30, 10, 10:30, 11, 11:30, 12 n, 12:30, 1, 1:15, 1:30, 2:45, grain, markets, livestock, markets. Cen-

# WEAF

New York, N. Y. 491.5m-610kc, 5000 watts. National Broadcasting Co., Inc. Slogan, "The Voict to the Millions." Daily ex Sun, 6:45-8 am, 8-8:4511-1:15 pm, 4-12 midnight. Sun, 2-10:30 pm. East

North Plainfield, N. J. 239.9m-1250kc. 250 watts. Borough of North Plainfield, Announcer, H. W. Blackford, Slogan, "America's Pioneer Municipal Broadcasting Station." Fri, 8-12 pm, concert, talks. Sun, 11-12 noon. Eastern.

Providence, R. I. 319m-940kc, 500 watts. The Shepard Stores, Announcer, Chester H. Miller. Slogan, "We Entertain a Nation," Daily ex Sun 12-1 pm, 4-5, music, reports, weather, concert 6:30-10:30, Sun, 10:45-11:30 am, 7:30-8:45 pm, church service. Eastern.

# WEAO —

Columbus, Ohio. 282.8-1060kc. 750 watts. Ohio State University, Announcer, Robert Coleman. Slogan, "Where Education Advances Ohio." Daily ex Sun, 9:45 am, 11, 12:30 pm, 4. Wed, 7-8:30 pm; Thurs, 7-10:30 pm. Eastern.

Cleveland, Ohio, 399.8m-750kc, 1000 watts. Willard Storage Battery Co. Daily ex Sun, 11:30 am, markets, time, weather. Daily ex Sun, Sat, 3:30 pm, markets, weather. Eastern.

# WEBC -

Superior, Wis., Duluth, Minn. 241.8m-1240kc. 250 watts. Head-of-the-Lakes Radio Station, Daily ex Sun, 1:15 pm, 5, markets; 6, orchestra. Mon, 8 pm, nusic. Wed, 8:30 pm. Fri, 9 pm. Sun, 10:40 am, services. Central.

# Cambridge, Ohio. 247.8m-1210kc. 10 watts. Roy W. Waller. Fri, 7:45-9:15 pm. Sun, 7:30-8:30 pm.

Chicago, Ill. 365-6m-820kc, 2000 watts. Edgew Beach Hotel-Herald-Examiner. Announcer, Ro Boniel. Slogan, "The Voice of the Great Lak Baily ex Sun, 3-4 pm, music; 5-5:45, children's of Daily ex Sun, Mon, 7-8 pm, dinner concert. To 9-11 pm, Uprown theater. Wed, 9-11 pm, music 12-1 am, revue. Thurs, 9-11 pm, musicale. Fr 11 pm, Sat, 10-12 mid. Sun, 6 pm, organ; orchestra. Central. WEBJ —— –

New York, N. Y. 256.3m-I170kc, 500 watts. Third Avenue Railway Co. Announcer, H. A. Bruno, Slo-gan, "The Red Trolley Station," Tues, Fri, 7-9 pm. Wed, 8-10 pm. Eastern.

Harrisburg, Ill. 223.7m-1340kc. 15 watts. Tate Radio Co. Announcer, Dr. H. J. Raley. Slogan, "The Voice from Egypt." Daily ex Sun, 7:15-7:45 pm. Mon, Thurs, 8-10 pm. Sun, 11-12 n, 2-4 pm, 7-8. Central. Founded Sept. 1, 1923. Buffalo, N. Y. 241.8m-1240kc. 200 watts. H. H. Howell. Announcer, Glenn Pickett. Slogan, "We Extend Buffalo's Regards." Daily ex Sun. 7:45-8:30 pm. Mon, Wed, Fri, 8:30-11:30 pm. Sat, 12 n, concert; 8-9 pm, church; 10:15-12 mid, organ. Eastern.

Beloit, Wis. 258.5m-1160kc. 500 watts. Beloit College. Announcer, Arthur Weimer. Sun, 4:30 pm.

# WEDC -

Chicago, Ill. 241.8m-1240ke. 500 watts. Emil Denemark, Broad. Station. Slogan, "It Won't Be Long Now." Daily, 6-7:30, 9:30-11:30. Daily ex Sun. 6:30-7:30 pm. Jewish hour. Fri, 6:30-7:30 pm, Bohemian hour. Central.

Boston, Mass. 447.5m-670kc. 500 watts. Edison Elec, Illuminating Co. Announcer, Arthur F. Edes, Slogan, "The Friendy Voice." Daily ex Sun, 6:45, 31:30 6:330-10:30, 0:300 forming Lyons, shon, 4 pm, 6:30-10:30, 0:300 forming Lyons, 4 form, 6:30-10, 10, 10:300 form, 4 form, 6:30-10, 10, 10:300 form, 7:20, 9:20. Eastern, Founded Sept. 29, 1924.

Evanston, III. 215.7m-1390kc. 100 watts. Victor C. Carlson. Daily ex Sun, Mon, 6:15-9 pm. Wed, Fri, Sat, 10-12 mid. Thurs, 11-12 mid. Sun, 6:30-9 pm. Central.

# WEMC —

Berrien Springs, Mich. 483m-620ke. 1000 watts. Emanuel Missionary College. Announcer, Paul N. Pearce. Slogan. "The Radio Lighthouse." Daily ex Sat, Sun, 7:30-9 am. Mon, 7-12 mid. Tues. Thurs, 3-4 pm. Sun, 9-10 am, 11-12. Central. Founded April 1, 1923.

# WENR -

Chicago, 111. 288,3m-1040kc, 500 watts. Great Lakes Radio Broadcasting Co. Daily ex Sun, Mon, 11 an, Mrs. Peterson. 12-1 pm, concert; 2-5, popu-lar request; 6-7, dinner concert; 8-9:30, classical; 9:30-12 mid. Mon, 12-1 pm, 2-5, 6-7, Sun, 2-4 pm, 6-7, 9:30-11. Founded Sept, 29, 1925. Central.

# WEPS -

Gloucester, Mass. 296.9m-1010kc, 100 watts. Mathesor. Radio Co., Inc.

# WEVD -Woodhaven, N. Y. 245.8m-1220kc. 500 watts. Debs Memorial Radio Fund.

St. Louis, Mo. 352.7m-850kc. 1000 watts. St. Louis University. Announcer, C. G. Dalim. Daily ex Sun, 9 am, 10, 2, 5 pm, reports. Tues, Thurs, 7 pm, lectures, music. Sun, 9;35 am, 11, 2 pm, 7:15. Founded April 26, 1921. Central.

# WFAA –

Dallas, Tex. 499,7m-600kc. 500 watts. Dallas News and Dallas Journal. Slogan, "Working for All Alike." Daily, 6:30-7:30 am, exercises; 7:30, 8:30, 9:30, 10:30, 11:30, reports; music; 12:30, 1:30, 2:30, 3:30, 4:30, 5:30, reports, news; 8:30-9:30, concert, weather (silent Wed). Mon, Tues, Thurs, Fri, Sat, 6:30-7:30 pm, vesper recital, story hour, sports. Tues, Sat, 11:12 pm, music. Sun, 6-7 pm, Bible class; 7:30, church service; 8:30-9:30, 11-12, music. Founded June 26, 1922. Central.

WFAM

St. Cloud, Minn. 252m-1190kc, 10 watts. St. Cloud Daily Times, Off the air temporarily.

WFBC

Knoxville, Tenn. 234.2m-1280kc. 50 watts. First Baptist church. Announcer, St. Iohn Reynolds. Sun, 10:45 am; 7:30 pm, services; 4 pm, sacred music. Control.

Cincinnati, O. 245.8m-1220kc. 250 watts. Hotel Garfield, Mon, Tues, Wed, Thurs. 7:30-10:30 pm. Fri, 5:30-6:30 pm. Sun, 1-2 pm, 6:30-7:30. Eastern. Founded 1924.

# WFBG -

Altoona, Pa. 280.2m-1070kc. 100 watts. The Win, F. Gable Co. Announcer, Roy F. Thompson. Slogan, "The Original Gateway to the West." Daily ex Sun, Mon, 11:45 am; 12 n, 3 pm, 6:30, 7:30, 8, 8:30, 10, Sun, 10:45 am, 3:30 pm, 7:30. Eastern. Founded Aug. 28, 1925.

# WFBJ -

Collegeville, Minn. 272.6m-1100kc. 100 watts. St. John's university. Announcer, Hilary Doerfier. Slogan, "In the Heart of the Landscape Paradise." Wed, 8-9:30 pm. Fri, 4-5 pm. Central.

# WFBL -------

Baltimore, Md. 243 8m-1230kc. 100 watts. Fifth Infantry, Maryland National Guard, Slogan, "Home of the Star Spangled Banner." Announcer, S. R. Kennard. Tues, Thurs, Sat, evening programs. Eastern. Founded Oct. 1, 1924.

Galesburg, Ill. 247.8m-1210kc. 50 watts. Knox college. Announcer, George B. Strain. Slogan, "At Old Siwash." Wed, 8-10 pm. Central.

Philadelphia, Pa. 405.2m-740kc. 500 watts. Straw-bridge & Clothier. Announcer, John Vandersloot. Daily ex Sun, 10:15 am, 1 pm, 3, 6:20, 7:30 pm, Daily ex Sun, Mon, 7:30 pm, Tues, 8-11:30 pm. Thurs, Sat, 8-11 pm, Sun, 10:20 am, 7:30, 4:30 pm. Eastern. Founded March 18, 1922.

Chicago, 111. 223.7m-1340kc, 500 watts. Francis K. Bridgman. Off the air temporarily. Founded April 22, 1925.

# WFKD ---- -

Clearwater, Fla. 365.6m-820kc. 500 watts. Chamber of Commerce. Announcer, Walter Tison. Daily ex Sun, Sat, 8:30-10:30 pm. Founded, Dec. 25, 1925.

# WGAL -

Memphis, Tenn. 277.6m-1080kc. 15 watts. First Baptist church. Announcer, A. L. Cowles. Sun 9:30 am, 7:30 pm. Central.

Astoria, N. Y. 348.6m-860kc. 500 watts. Gimbel Brothers. Announcer, N. T. G. Daily ex Sun, 10-II am, 1:30-2:30 pm, 3-4. Mon, Wed, 6-7 pm, Tues, Thurs. Sat. 7:30-11:30 pm. Sun, 8 pm. Eastern.

WGES -Chicago, Ill. 241.8m-1240kc. 500 watts. Guyons Paradise Ballroom. Announcer, George Gubbins, Tues, Thurs, Sat, 6-7:15 pm, 8-1. Wed, Fri, 6-7:15 pm, 10-1. Sun, 10:15-11:30 am, 11:40-1 pm, 2:30-4, 6-7:15, 8-1. Founded Aug., 1920. Central.

WGHP ———

# New York, N. Y. 293.9m-1020kc. 1000 watts. Broadcasting Corp.

Jennnette, Pa. 208.2m-1440kc, 50 watts. Verne & Elton Spencer, Announcer, Verne Spencer, Slogan, "Voice from Glass City." Mon, Tues, Thurs, Fri, ':30-9 pm. Sun, 1:30-4 pm. Eastern,

New York, N. Y. 201.2m-1490kc. 100 watts. At-lantic Broadcasting Co.

lantic Broadcasting Co.

WGN

Elgin, Ill. 305.9m-980kc. 500 watts. Chicago Tribune. Amouncers, Bill Hay, Quin Ryan, Frank Dahm, J. R. Tyson, Tominy Coates. Daily ex Sun, 9-10 am, news; 11-11-130, music; 11:30-11:57, house-hold hints; 11:57-12:01, time; 12:40-2:55 pm, music; 2:55, baseball; 5:557, music; 5:57-601, time; 6:01-6:10, stocks and bonds; 6:10-6:35, Punch and Judy; 6:35-6:50, music; 6:50-7, Almanack, Daily ex Sun, Mon, 8-11 pm, Sun, 12-1 pm, Uncle Walt; 1-2, organ; 2-3, music; 3, baseball; 6:10-6:45, Punch and Judy; 6:45-11:25, music. Central.

Syracuse, N. Y. 258.5m-1160kc, 750 watts. Onon-daga company. Mon, 6:30-7:30 pm, 9-12 mid. Tues. 6:30-10 pm. Wed, Fri, 6:30-11 pm. Thurs, 6:30-12:30 pm. Sun, 3-7:30 pm, 9-17.

Morris, Ill. 275.1m-1090kc. 1000 watts. Indian-apolis Power and Light company. Announcer, Bailey Fesler. Slogan, "The Crossroads of America."

# WFBR —— –

WFBZ — -

WFCI —— — Pawtucket, R. l. 241.8m-1240ke, 100 watts. Frank Crook, Inc. Announcer, H. E. Stafford, Slogan, "The City of Diversified Industries." Mon, Wed, Fri, 8-11 pm. Eastern.

WFDF ---- -Flint, Mich. 374.8m-800kc. 100 watts. Frank D. Fallain. Slogan, "The Motor City." Mon, Wed, Fri, 8-10:30. Eastern. Founded May 25, 1922.

WFIW ----- -Hopkinsville, Ky. 280.2m-1070kc. 500-1000 watts. Acme Mills, Inc. Amouncer, Hal Fifer. Mon, Sat. 8-11 pm. Wed, 8-11 pm. Fri, 8-11 pm. Sun, 9:30-10:30 am, 9-10 pm. Daily ex Sun, 12-1 n, 3-4 pm, 6-7. Central. Founded Feb. 12, 1927.

Philadelphia, Pa. 247.8m-1210kc. 50 watts. Foulk-rod Radio Eng. Co. Mou, Thurs, 8-11 pm. Eastern. WFLA -----

Lancaster, Pa. 252m-1190kc. 15 watts. Lancaster Elec Supply & Construction Co. Announcer, Charles W. Feagley. Slogan, "World's Gardens at Lancas-ter." Tues, Thurs. Sat, 7-10:30 pm. Sun, 11 am. Fastern. Freeport, N. Y. 245.8m-1220ke. 400 watts. Harry H. Carman. Mon, 7-8 pm. Wed, Fri, 7-11 pm. Sun, 10:40-12:30 pm, 4-5:30. Eastern.

# WGBC -----

WGBF

Evansville, Ind. 236.1m-1270kc. 250 watts. The Finke Furniture Co. Announcer, Harold Finke Slogan, "The Gateway to the South," Daily ex Sun, 7:15 am. 12:10 pm, markets; 12:15, weather; 12:20, farm talk; 12:30, organ; news. Mon, 6:55 pm, baseball; 7-11:15. Tues, 1:15 pm, 7, 8. Wed, 2:30 pm. Fri, 1:15 pm, 8:30. Sun, 9 am. Central. Founded Oct., 1923.

Scranton, Pa. 230.6m-1300kc. 250 watts. Scranton Broadcasters, Inc. Daily ex Sun, 10-12:30 pm, 6 pm. Sun, 7-10 pm. Eastern. WGBS —

Thurs, Sat. 7:30-11:30 pm. Sun. 8 pm. Eastern.

WGCP

Newark, N. J. 280.2m-1070kc. 500 watts. Lauter

Piano Co. Announcer, Bradiord Browne. Thurs, 11-12 n, 3-6 pm. 9-12. Mon. Wed, Fri. 13 pm, 6-9. Sun, 12-6 pm. Sat, 11-12 n, 9-12. East-

Mt. Clemens, Mich. 319m-940kc. 750 watts. George Harrison Phelps, Inc. Announcer, Corley W. Kirby, Daily ex Sat, Sun, 10:30 am, 2 pm, 6, 8. Eastern. WGL

Ruffalo, N. Y. 302.8m-990kc. 750 watts. Federal Radio Corp. Announcer, Kenneth Fickett. Daily ex Sun, 6:45-8 am. Daily ex Sun, 6:45-8 am. Daily ex Sun, Sat, 12 n, stocky; 1 vm. 2:30-4:30. Tues. Thurs, 8:11 nm. Mon. Wed. Fri, 8:12 mid. Sun, 10:45-12 n, 7:45-9 pm, 9:15-10. Eastern. Founded May 21, 1922.

# WGST -

Atlanta, Ga. 270.1m-1110kc. 500 watts. Georgia School of Technology. Announcer, Walter W. Mer-kle. Slogan, "The Southern Technical School with a National Reputation." Founded Jan., 1924.

# WGWB-

Milwaukee, Wis. 218,8m-1370kc. 500 watts. Radio-cast Corp. of Wisconsin. Announcer, John Sulli-van. Slogan, "Make Milwaukee Mightier." Daily ex Sun, Sat. 10:30-12:30 pm. Mon, 8-10:30 pm. Wed, 8-9 pm. Fri, 9-10:30 pm. Sun, 10-11 am, 6-7 pm. Central,

# WGY

Schenectady, N. Y. 379.5m-790kc. 50,000 watts. General Electric Company. Announcer, Kolin Hager. Slogan, 'Good Evening to You All,' Daily ex Sun, 5:45-7 am, exercises; 7:30, talk; 11:55 am, time; 12:01, weather: 12:02, produce; 12:06, weather; 1pm, music; 1:30, orchestra; 5, stocks; 5:25, baseball: 5:30, orchestra; 6:25, baseball: Tues, 6:30, 10:30 pm. Wed, 5:30-10:30 pm. Thurs, 5:30-10:30 pm. Fri, 5:30-10:30 pm. Sat, 6:30-11 pm. Sun, 10 am, 1-2 pm, 6:20, WEAF; 8:15, time; 8:15, WEAF; 8:45, WEAF, Tues, Thurs, Sat, 2XAF, 32.77m. Mon. Wed, Fri, Sun, 2XAD, 22.02m. Eastern. Founded, 1922.

# WHA

Madison, Wis. 319m-940kc. 750 watts. Univ. of Wis. Mon, 7:30-10 pm. Wed, Fri, 8-9 pm. Cen-

# WHAD-

Milwaukee, Wis. 270.1m-1110kc. 500 watts. Marquette University.

# $\mathbf{WHAM}_{-}$

Rochester, N. Y. 277.6m-1080kc, 5000 watts. Univ. of Rochester. Stromberg-Carlson Tel. Mfg. Co. Announcer, E. Chappell, Daily ex Sun, 6:30-11 pm. Tues, 2:30-4 pm. Sun, 10:30-12 n, 3:30-5, 6:30-11. Eastern,

New York, N. Y. 236.1m-1270kc, 1000 watts, Defenders of Truth Society, Inc. Mon. Thurs. 6-9 pm. Wed, 9-11:30 pm. Sat, 7-11:30 pm. Sun, 7:30-9:30 pm. Eastern. Founded May, 1925,

Atlantic City, N. J. 272.6m-1100kc, 1000 watts. Seaside Hotel. Announcer, E. Dennison. Pioneer Broadcasting Station of Atlantic City. Daily ex Son. Wed, 2:15-3:15 pm, 7:45-9. Sun, 10:45 am, 2:15-3:10 pm, 7:30-9. Founded, 1922. Eastern. WHAS —— —

onisville, Ky. 461.3m-650kc. 500 watts. Courier-ournal and Louisville Times Co. Announcer, D. I. Ives. Daily ex Sun, 2:15 pm, 3:30-5, 7-9. Sun, Dam, service; 2-3, 4:30-5:30. WEAF. Founded aly, 1922. Central.

# WHAZ -

Troy, N. Y. 379,5m-790kc, 500 watts, Rensselaer Polytechnic list, Announcer, Rutherford Hayner, Slogan, "Transcontinental and International Broad-casting Station Located at the Oldest College of Science and Engineering in America." Club, R. P. I. students, Mon, 8-12 midnight, concert, educa-tional talks, orchestra, features. Founded June 22. Eastern.

# WHB

Kansas City, Mo. 336.9m-890kc. 500 watts. Sweeney Auto & Electrical School. Announcer, John T. Schilling. Slogan, "Heart of America." Daily ex Sun, 8:25 am, 9:25, 10:25, 10:30, 11:20, 11:30, 11:56, 12 n, market reports; 2-3, ladies hour. Daily ex Sun, Sat, 12:15 pm, 12:30, 1:25, 1:40, stocks. Daily, 7-8 pm. Mon, 8-9 pm. Tues, Thurs, 8-10 pm. Sat, 12:05 pm, 12:30, 1:25, markets. 8-10 pm. Sun, 9:45-10:45 am, service; 7-7:45; 11:15-1 am, organ. Central. Founded April, 1922.

# $\mathbf{WHBA}$ —

Oil City, Pa. 260.7m-1150kc. 10 watts, Shaffer Music House. Nov., 1924. Tues, 9-10 pm. Eastern. Founded

# WHBC —

Canton, Ohio. 236.1m-1270kc. 10 watts. Rev. E. P. Graham. Slogan, "Ignorance Is Our Greatest Foe." Mon, 8-8:30 pm. Central,

Rock Island, III. 222.1m-1350kc. 100 watts, Beards-ley Specialty company. Announcer, C. L. Beardsley. Slogan: "Where Historic Blackhawk Fought." Mon, Wed, 9-11 pm, Sat, 2-4 pm, 7-9. Central. WHBL —

Chicago, III. 204m-1470kc. 100 watts. C. L. Carroll. (Portable.) Founded, 1925.

# WHRM\_\_\_

Chicago, 111. 201.2m-1490kc. 100 watts. C. L. Carroll. (Portable.) WHBN —

inesville, Fla. 296.9m-1010kc. 5000 watts.

# WHBP -

Johnstown, Pa. 228.9m-1310kc. 250-500 watts. Johnstown Automobile Co. Announcer, J. C. Tully. Slogan: "The Voice of the Friendly City." Daily ex Sun, 1:15 pm. Mon, 11 pm. Thurs, 10 pm. Sat, 10 pm. Eastern.

Memphis, Tenn. 232,4m-1290kc, 100 watts. Broad-casting Station WHBQ, Inc. Announcer, Thomas Thompson. Daily ex Sun. 7-8 pm. Sun, 10:45 am. Central. Founded March, 1925.

# WHBU –

son, Ind. 220,4m-1360kc. 15 watts. Citizen's

# $\overline{\mathbf{WHBW}}_{-}$

Philadelphia, Pa. 220.4m-1360kc. 100 watts. D. R. Kienzle. Mon, Wed, Sat, Sun, evenings.

West De Pere, Wis. 249.9m-1200kc. 50 watts. St. Norbert's College. Green Bay-De Pere Broadcasting Station. Daily, 6 pm, weather, markets. Wed, Fri, Sat, Sun, 5-6 pm. Mon, Fri, 8-10 pm. Central, Founded Jan., 1925.

Minneapolis, Minn. 245.8m-1220kc. 500 watts, Wm Hood Dunwoody Industrial Institute Announcer M. R. Bass. Slogan, "Northwest Leading Trade School," Mon, 8-9 pm. Wed, 8:30 pm. Fri, 9-10 pm. Daily ex Sun, 6:57-9:30 am, time. Central.

Rochester, N. Y. 277.6m-1180kc. 500 watts. Flick-son Electric company, Inc. Announcer, Milton Hall. Sloggan, "The City of Varied Industries," An-nouncer, Edward H. Tronan. Daily ex Sun, 12-3 pm, 6.30-10. Sun, 10:30-12 n, 7:30-10 pm. Eastern.

# WHFC —— —

Chicago, III, 215.7m-1390kc, 200 watts. Woodson & Wilson, Inc. Daily ex Mon, 8-12 mid. Central

# WHK

Cleveland, Ohio. 265, 3m-1130kc. 1,000 watts. Radio Air Service Corp. Slogan, "Cleveland Pioneer Broadcasting Station. 3:30, housekeepers clast: 5,5:15, 9, 10, 11-12. Sat, 12 n, 3:30 pm: 5,5:15, 6, 8-9, 9:12 mid. Sun, 10 am, 5 pm, 5:15, 6, 7:30, 8:15-9:30. Eastern.

# WHN

New York, N. Y. 394.5m-760kc. 500 watts. Loew's State Broadcasting Station. Announcers, N. T. G., Edward B. Husing, Slogan, "The Voice of the Great White Way." Daily ex Sun, 12:30-1 pm, 2:15-3:15, 3:45-5:30, 6:30-12 mid. Sun, 12:30-6 pm; 9:30-12. Eastern. Founded March, 1922.

Des Moines, Ia. 535.4m-560kc. 5000 watts. Bankers Life Co. Announcer, N. Dean Cole. Daily ex Sun, 9:45 am, 12 n, 2, 2:15 pm, markets, weather. Tues, Thurs, Fri, 6:30-10 pm. Mon, 6:30-12 mid. Wed, 6:30-11 pm. Sun, 11 am, 4-9 pm. Central. Founded 1924.

# WHPP -

New York, N. Y. 206,8m-1450kc. 10 watts. WHPP, Inc.

# WHT

Deerfield, III. 416.4m-720kc, 5000 watts. Wrigley Bidg. Announcer, Patrick Henry Barnes, Slogan, Write Home Tonight. Daily ex Mon, 10-2:30 pm, 7-10. Tues, Thurs, 11-1 am. Central. Founded April 25, 1925,

# WIAD -

Philadelphia, Pa. 288.3m-1040kc. 100 watts. Howard R. Miller. Slogan, "The Voice from the Birth-place of Liberty." Tues, Thurs, Fri, 6-12 mid. Eastern. Founded June, 1922.

Ottumwa, Ia. 475.9m-630kc. 100 watts. Poling Elec. Co. Announcer, Frank B. Orf. Slogan, "Bur-lington on the Mississippi." Wed, 8 pm. Mon, Fri, 8 pm. Sat, 10:30 pm. Sun, 10:30 am. Central.

WIBA ----- ----Madison, Wis. 239.9m-1250kc. 100 watts. The Capital Times Strand theater. Announcer, Kenneth F. Schmitt, Slogan, "Four Lakes City." Mon, 7-11 pm. Wed, 8-10 pm. Fri, 6:15-7 pm. Sat, 7-8 pm. Sun, 12-1 pm. Central. Founded June, 1924.

Elkins Park, Pa. 440.9m-680kc 50 watts, Paul's Protestant Episcopal church, Annon David P. Gullette. Sun, 11 am, 3:45 pm. Ea

Wibi — Port Washington, N. Y. 267.7m-1120kc. 100 watts. Frederick B. Zittell, Jr.

# WIBJ –

Chicago, III. 201.2m-1490kc. 100 watts. C. L. Carroll. (Portable.)

Chicago, III. 201.2m-1490kc. 100 watts. C. L. Car-roll. (Portable.)

# WIBO -

Chicago, III. 416.4m-720kc. 5000 watts. Nelson Brothers Bond and Mtg. Co. Announcer. Walter Preston. Daily ex Sun, 2:30-7 pm. Tues, Thurs. 10-11 pm. Wed. Fri. Sat, Sun, 10-1 am. Sun, 8:45-10 am. Central. Founded May 26, 1925.

# WIBR \_\_\_\_\_

Steubenville, Ohio. 249.9m-1200kc. 50 watts. Thurman A. Owings. Announcer, Robert Merryman. Slogan, "Where Investments Bring Results." Daily ex Sun, 6:30-7:30 pm. Wed, 11:15-12:45 am. 1025. Eastern.

# WIBS

Elizabeth, N. J. 204m-1470kc. 150 watts. New Jersey National Guard.

# WIBU

Poynette, Wis. 217.3m-1380kc. 20 watts. The Electric Farm. Wisconsin State Journal. Mon, 9 pm. Sun, 2 pm, 4. Central. Founded July 10, 1925.

# WIBW ——

Chicago, Ill. 204m-1470kc. 100 watts. C. L. Carroll. (Portable) Chicago. Founded 1926.

# WIBX —— —

Utica, N. Y. 238m-1260kc. 150 watts. Hotel Utica. Announcer, J. B. Hyland. Mon. Tues, Thurs, Fri, Sat, Sun, services. Founded June, 1924.

# WIBZ

ontgomery, Ala. 230.6m-1300kc. 15 watts. A. D.

Sport Hill, Conn. 214.2m-1400kc. 500 watts. The Bridgeport Broadcasting Station. Announcer, Charles W. Selen. Siogan. The Industrial Capitol of Con-necticut. Mon. Tues, Thurs. Fri, 8-10 pm. Sun, 9:50 am. Eastern. Founded Aug. 2, 1926.

# WIL

St. Louis, Mo. 258.5m-1160kc. 250 watts. Benson Broadcasting Co. Announcer, Billy Knight, Daily and Sun, 9:30-11:30 am, 2:45-5 pm. Daily ex Thurs, 8-11 pm. Central. Founded Sept., 1922.

WIOD —— Miami Beach, Fla. 247.8m-1210kc. 1000 watts. Carl G. Fisher. Announcer, Jesse H. Jay. Slogan "Wonderful Isle of Dreams."

WIP Philadelphia, Pa. 508.2m-590kc. 500 watts. Gimbel Bros. Announcer, E. A. Davies. Slogan, "Watch Its Progress." Daily ex Sun, 1-2 mn, 3-4;30, 6-7;30. Tues, Thurs, Sat, 10-10:30 am. Tues, Thurs, Sat, 8-12 mid. Sun, 10:45-12 n, 9-12 mid, alternate Sun-43y, 7;15-12 mid. Eastern.

Waco, Texas. 447.5m-670kc. 500 watts. Hotel Raleigh. Mon, Tues, Thurs, 6:30-7:30 pm. Mon, Tues, Thurs, Pri, 8:30-10 pm. 1st and 3rd Wed, 8:30-9:30 pm. Central.

# WJAG ----

Norfolk, Nebr. 285.5m-1050kc. 250-500 watts. Norfolk Daily News. Announcer, Karl Stefan, Slogan, The World's Greatest Country Daily, and Home of Printer's Devil." Daily ex Sun, 12:15 pm; Wed, Sat, 6:30-7:30 pm, orchestra. Sun, 3 pm. Central.

WJAK

Kokomo, Ind. 234.2m-1280kc. 50 watts. Kokomo Jini. Diniy. 60 pm, music. Tues. Wed, Tribune. Daily ex Sun, 11:45 am. chapel. Mon, 7:30 pm. music. Tues. Wed, Thurs, 6 pm, concert. WJAM

Cedar Rapids, lowa. 352.7m-850kc. 250 watts. D. M. Perham. Daily ex Sun, 8:30-9:15 am, 12:40-1:15 pm. Mon, Wed, Fri, 7-9 pm. Tues, Thurs, 9-11 pm. Central. Founded July 29, 1922.

Providence, R. I. 483.6m-620kc, 500 watts. The Outlet Co. Announcer, J. A. Reilly. Slogan, "The Southern Gateway of New England." Daily ex Sun, 1:05-2 pm, weather, reports, music. Mon, Wed, Fri, 10 am, household hints. Mon, 8-11 pm. Tues, 8-10 pm. Wed, 7:30-11 pm. Thurs, 8-11 pm. Fri, 8-10:30 pm. Sat, 8-9 pm. Sun, 7:20-10:15 pm. Eastern

# WJAS

Pittsburgh, Pa. 270.1m-1110kc. 500 watts. Pittsburgh Radio Supply House. Pickering's Studio. Announcer. Tom, Morris. Slogan, "World's Jolliest Aerial Station." Daily ex Sun, 12 n, 12:45, 7:30, 8, 8:15, 9:30, 10:30. Sun, 11-2 pp., 3-5, 9-1). Eastern

# WJAX

Jacksonville, Fla. 336.9m-890kc. 1000 watts. City of Jacksonville. Daily ex Sun, 11:55-12:05 pm, Daily ex Sun, Thurs, 7:30-11 pm. Sun, 11 am, 6:30-7:30 pm, 8-9. Eastern. Founded Nov. 26, 1925.

# WJAY –

Cleveland, Ohio. 227.1m-1320kc. 500 watts. Cleveland Radio Broadcasting Corp. Announcer, Johnny Mack. Slogan, 'On the Hollenden.'' Daily ex Sun, 10 am, 12, organ; 1, 6-12 mid. Sun, 10:30 am, services; 6:30 pm, 7, 11 pm, 11, time. Central.

# WJAZ –

Mt. Prospect, III. 263m-1140kc. 5000 watts. Zenith Radio Corp. Announcer, George G. Smith. Daily ex Sun, Mon, Thurs, 7-8 pm, 9-11. Thurs, 9-12 mid. Sun, 7-9 pm. Founded 1922. Central.

# WJBA -

Joliet, Ill. 322.4m-930kc. 50 watts. D. H. Lentz, Jr. Tues, Thurs, Fri, Sat, 7-12 mid. Central.

# WJBB -

Tampa, Fla. 344.6m-870ke. 250 watts. Financial Journal.

# WJBC

La Salle, Ill. 227.1m-1320kc. 100 watts. Humme Furniture Co. Announcer, LeRoy Stremlau. Slo gan, "Better Home Station." Daily ex Sun, 12:30 1:30 pm. Mon, 8-10 pm. Sat, 4-5 pm. Sun, 10:31 1:30 am, 3:30-4:45 pm, 7:30-9:30 pm. Founder May 4, 1925. Central.

# WJBI –

Red Bank, N. J. 263m-1140kc. 150 watts. Robert S. Johnson.

# WJBK -

Ypsilanti, Mich. 220.4m-1360kc. 15 watts. Ernest Goodwin. Announcer, H. T. Augustus. Mon, 9-11 pm. Thurs, 10-12 mid. Sat, 11-12 mid. Eastern. W.IBI. –

Decatur, III. 212.6m-1410kc. 250 watts. William Gushard Dry Goods Co. Announcer, W. H. Wiley. Mon, 9-10:30 pm. Wed, 9-11 pm. Sat, 9-11:30 pm. Sun, 10:45-12:15 pm. Central. Founded Sept. 24, 1925. WJBO -

# New Orleans, La. 263m-1140kc. 100 watts. Valdemar Jensen. Founded 1922.

WJBR -----Omro, Wis. 227.1m-1320kc. 100 watts, Gensch and Stearns. Announcer, C. W. Stearns. Slogan, "The Center of the State of Lakes," Mon, Thurs, 8-10:30 pm. Sun, 2:20-4 pm, 8-10:30. Central. Founded Feb. 10, 1926.

# WJBT –

Chicago, 111. 389.4m-770kc. 500 watts. John S. Boyd. Announcer, Floyd Taleh. Daily ex Sun, 10:30-11:15 am; 5-7 pm. Daily ex Sun, Mon, 11-12 mid. Sun, 6-6:30 pm, 11-12. Central.

# WJBU —

Lewisburg, Pa. 214.2m-1400kc. 100 watts. Buck-nell university. Announcer, Geo. A. Irland. Slo-gan, In the Heart of the Keystone State." Thurs, 8 pm. Eastern. WJBW—

# New Orleans, La. 238m-1260kc. 30 watts. C. Carlson, Jr. Tues, Fri, 7-8 pm. Sun, 9-10 pm. Central.

WJBY -Gadsden, Ala. 234.2m-1280kc. 50 watts. Electric Construction Co. Mon, Wed, Fri, 8-9 p.m. Central. Founded Aug. 11, 1926.

# WJBZ —— -

Chicago Heights, Ill. 208.2m-1440kc. 100 watts. Roland G. Palmer. Anthony Coppotelli. Mon, Wed, Fri, 7-12 mid. Central.

# WJJD –

Mooseheart, Ill. 365.6m-820kc. 1000 watts. Loyal Order of Moose station. Palmer House, Herald Examiner. Announcer, Gene Rouse. Slogan, "The Call of the Moose." Daily ex Sun, 10 am, news; 10:30, organ; 11-12 n., Prudence Penny; 12, music; 4 pm, piano reveries; 4:45, Palmer house soloist; 5:45, music; 6, symphony; 6:15, talk. Daily ex Sun, Mon, 8 pm. Tues, Fri, 11-1 am. Wed. Thus; 11-12 mid. Sat, 9-10 pm, 12-2 am. Sun, 7:30-10:30 am. services; 1:30-2 pm, funnies; 2-4 Bible classes; 9, studio program; 10, news. Central.

WJKS -Gary, Ind. 232.4m-1290kc. 500 watts. Johnson Kennedy Radio Corp.

WJPW—— – Ashtabula, Ohio. 208.2m-1440kc. 30 watts. J. P. Wilson. Mon. Wed, Fri. 7:45 pm, 8:30-11. Sun, 10:30-12 n, 7:30-8:30. Central.

Pontiac, Mich. 440.9m-680kc. 5000 watts. 8xA O, 32 m. The Richards-Oakland Co. Slogan, "Where Joy Reigns." Announcers, Leo Fitzpatrick, John F, Patt, Daily ex Sun, 12:45-2 pm, 6-12 mid. Mon, Wed, Fri, 10 am. Sun, 10 am, service; 2, service; 3:30, symphony; 6-10:30 pm. Eastern. Founded August, 1925.

# WJZ

Bound Brook, N. J. 454.3m-660kc. 30,000 watts. R. C. A. Managed by National Broadcasting Co. Announcers, Milton J. Cross, Marley Sherris, Norman Sweetser, Curt Peterson. Daily 1-2:40 pm, 4:30-6, 6:50-11:30 pm. Sun, 9-10 am; 1-3 pm, 5:30-6:50, 7-10:30. Founded 1921. Eastern.

WKAR-

San Juan, Porto Rico, 340.7m-880kc. 500 watts. Radio Corporation of Porto Rico. Announcer, Joa-quin Agusty. Slogan, "The Island of Enchantment, Where the World's Best Coffee Grows." Wed, 8-10 pm. Intercolonial.

# East Lansing, Mich. 285.5m-1050kc. 500-1000 watts, Michigan State College. Announcer, Keith Himebaugh, Daily ex Sun, 12-12:30 pm, weather, markets, agricultural topics. Eastern.

WKAV—— Laconia, N. H. 223.7m-1340kc. 50 watts. Laconia Radio club. Fri, 7:30 pm. Sun, 10:45 am; 6:30-8:15, Eastern. Founded Oct. 1, 1922.

Joliet, III. 215.7m-1390ke, 150 watts. Sanders Brothers, Mon, 7-9 pm. Tues, Thurs, 8-12 mid. Sun, 3-5 pm. Central. WKBC -

# Birmingham, Ala. 218.8m-1370kc. 10 watts. H. L. Ansley.

WKBE -Webster, Mass. 228.9m-1310kc. 100 watts, K. & B. Electric Co. Thurs, Sat. 8-10:30 pm. Eastern daylight. Founded Feb. 27, 1925.

# WKBF -

Indianapolis, Ind. 275. Im-1090kc. 250 watts. Noble B. Watson. Daily ex Sun, 10 am. 10:30, 10:40, 5 pm, 7, 7:10. Daily ex Sun, Mon. Sat, 12 n, Mon. 7:30 pm, 8:30, 9 Tues, 8:30-10:30 pm. Thurs, 7:30-10 pm. Fii, 7:30, 8-9:30 pm. Sun, 2:30 pm. 7:30. Founded Oct., 1925. Central.

# WKBG —— –

Chicago, III. 201.2m-1490kc. 100 watts. C. L. Carroll. (Portable.)

# WKBH—— -

LaCrosse, Wis. 220.4m-1360kc. 500 watts. Callaway Music Co. Daily ex Sun, 10-11 am, 12 n. Mon, 8:30 pm. Wed, 9 pm. Sat, 10 pm. Sun, 10:30 am. Central. Founded 1924.

WKBI —— –

Youngstown, Ohio. 214.2m-1400kc. 50 watts. Radio Electric Service Co. Daily ex Sun, 7:30 am, exer-cises. Tues, 5:45 pm. Thurs, 6 pm. Eastern.

Jersey City, N. Y. 218.8m-1370kc. 500 watts. Camith Corp. Daily ex Sun, 12-1 pm. Mon, 6-9 pm. Tues, 5-8 pm. Wed, 1-2 pm. Thurs, 6-8 pm. Fri, 9-12 mid. Sat, 1-3 pm. Eastern.

Battle Creek, Mich. 212.6m-1410kc. 50 watts. Battle Creek Enquirer and News.

WKBQ-New York, N. Y. 218.8m-1370kc. 500 watts. Starlight Amusement Park, Inc. WKBS —

WKBT

New Orleans, La. 252m-1190ke. 50 watts. First Baptist church. Announcer, W. H. Green. Slogan, "The Gospel Wave." Sun, 11 am, 7:45 pm, WKBV

Brookville, Ind. 217.3m-1380kc. 100 watts. Knox Battery & Electric Co. Fri, 7-9 pm. Sun, 7-9 pm. WKBW-

WKBZ ----- -----

# Kenosha, Wis. 322.4m-930kc. 15 watts. Edward

WKDR ----

Kennore, N. Y. 204m-1470kc. 250 watts. WKEN Inc. Daily ex Sun, 6 pm. Mon. 8-10 pm. Tues, 7:45-10 pm. Thurs, 8-11 pm. Sun, 11 am, 7:30. Eastern. Founded Fall, 1925.

Lancaster, Pa. 252m-1190kc, 50 watts. Kirk  $\mathbf{WKRC}$  -

Oklahoma City, Okla. 288.3m-1040kc. 150 watts. WKY Radiophone Co. Daily 10-11 am, 6-7:30 pm. Mon, Wed, Fri, 9-11 pm. Central.

WLBC —— —

Kansas City, Mo. 209.7m-1430kc, 50 watts. Everett L. Dillard. Slogan, "Where Listeners Become Friends." Daily ex Sun, 9-12 n, 2-4 pm, 7-10-30. Sun, 9-11 am, 5-6 pm, 8-9. Central. Founded Nov. 13, 1926.

# WLBG — Petersburg, Va. 214.2m-1400kc, 100 watts. R. A. Gamble.

WLBH -

Farmingdale, N. Y. 232.4m-1290kc. 30 watts. Jos. J. Lombardi. Announcer, H. J. Martin. Mon, Wed, Fri, 7:30-11 pm. Eastern.

WLBI

Wenona, III. 238m-1260kc. 250 watts. Wenona Legion Broadcasters, Inc. Mon, 7-12 mid. Wed, Fri, 7-9 pm. Sun, 9 am. Central.

WLBL

Stavens Point Wis. 310m 040kg, 1000 cm. 1000

Stevens Point, Wis. 319m-940kc. 1000 watts. Wisconsin Dept. of Markets. Slogan, "Wisconsin, Land of Beautiful Lakes." Daily ex Sun, 8 am, 9, 10, 11, 12 n, weather, markets; 1 pm, news. Thurs, Sat, 8-10 pm. Central. WLBM —

Chicago, Ill. 204m-1470kc. 50 watts. William Evert Hiler (Portable).

WLBO
Galeshurg, Ill. 217.3m-1370kc. 100 watts. Frederick A. Trebhe, Jr. Tues, Thurs, Sat, 9-10 pm. Central. Founded Jan. 16, 1927.

Chicago, Ill. 322.4m-930kc, 50 watts, Fred L. Schoenwolf, Fri, Sat, Sun, 10-12 mid, Central, WKBL

Monroe, Mich. 205,4m-1460ke, 15 watts, Monrona Radio Mig. Co.

WKBN —

WKBO —— –

Galesburg, Ill. 217.3m-1380kc. 100 watts. Permil N. Nelson. Announcer, Paul W. Palmquist. Mon. Wed, Fri, 10-11 am, 12:30-1 pm, 2:30-3:30, 7-11. Tues, Thurs, 10-11 am, 12:30-1 pm, 2:30-3:30, 7-9, 10-11. Sat, 7-9 pm, 10-11. Sun, 1:30-3 pm. Central.

# Buffalo, N. Y. 217.3m-1380kc. 500 watts. Churchill Evangelistic Assn., Inc. Daily ex Sun, 6:30 pm. Sun, 8:30 am, 2 pm, 6-8:15, 9:15-11. Eastern.

Ludington, Mich. 199.9m-1500kc. 15 watts. Karl L. Ashbacker. Mon, 8-10 pm. Sun, 10:30-12 n, 7-8:30 pm. Central.

# WKEN -

WKJC —

Cinciunati, Chio. 333.1m-900kc. 500 watts. Koder Radio Corp. Mon, Wed, 6-8 pm, 9-11, 12-2. Tues, 6-7 pm, 9-12 mid. Thurs, 8-10 pm. Fri, 9-11 pm. Sat, 6-7 pm, 9-12. Sun, 11-12 n; 3-5 pm, 7-8, 9-11, 11:30-1. Eastern. WKY \_\_\_ \_

Nashville, Tenn. 225.4m-1330kc. 1000 watts. Life and Casualty. Mon, Wed, Sat, 7-9. Wed, 1:30-2 pm; Thurs, 6-7 pm. Tues, Thurs, 9-12 mid. Sun, 9-10 pm. Central. Opened Nov. 24, 1926.

Louisville, Ky. 267.7m-1120kc. 100 Watts 6 am-6 pm. 30 watts. Virginia av. Baptist Church. Fri, 9:30-10 pm. Sun, 11 am, 8-9:15 pm. Central. Minneapolis, Minn. 245.8m-1220kc. 500 watts. U. of Minnesota. Tues, 4-5 pm, Wed. 6:15-7 pm, Fri, 4-5 pm. Central.

Muncie, Ind. 209.7m-1430kc. 50 watts. D. A. Burton. Wed, 8-12 mid, Thurs, 9-12 mid, Fri, 8-11 pm. Sat, 7-11 pm. Sun, 2-4 pm. Central.

Cambridge, Mass. 230.6m-1300ke, 50 watts. Browning Drake Corporation.

# WLBR Relvidere, 111. 322.4m-930kc. 15 watts. Alford Radio Co. Mon, 7-8:30 pm. Fri, 7:30-8:30 pm. Sat, 11-1 am. Sun, 11-12 mid. Central. WLBT -Crown Point, Ind. 322.4m-930kc. 50 watts, Harold Wendell WLBV -Mansfield, Ohio. 206,8:n-1450kc, field Broadcasting Association, Announcer, Ray Davis, Mon, 6-7 pm, 9-11 pm, Wed, 9-11 pm, Sat, 9:30-12 mid. Sun, 10:30-12 n. Central. WLBW----- -

Oil City, Pa. 293.9m-1020kc. 500 watts. Petroleum Telephone Co. Mon, 9:30-11 pm. Thurs, 10-11:30 pm. Sun, 3:30-5 pm. Eastern.

Long Island, N. Y. 204m-1470kc. 250 watts. John N. Brahy.

WLBY -Iron Mountain, Mich. 209.7m-1430kc. 50 watts. Aimone Electric. Daily and Sun, 12-1 pm. Central. Foxcroft, Me. 208.2m-1440kc, 250 watts. Thompson L. Guernsey.

WLCI -Ithaca, N. Y. 247.8m-1210kc. 50 watts. Lutheran Assn. of Ithaca. Announcer, Robert F. Schuetz. Slogan, "The Church at the Gate of the Campus." Sun, 10:45 am, 7:45 pm. Eastern.

WLIB -Elgin, Ill. 305.9m-980kc. 15000 watts. Liberty Magazine, Announcers, Bill Hay, Tommy Coates. Daily ex Sun, 10-11 am, 12:01-12:40 pm, 7-8, 11-1. Sun, 5-6:15 pm. Central.

Philadelphia, Pa. 405.2m-740kc. 500 watts. Lit Bros. Daily ex Sun, 12:02 pm, music; 2, music. Mon, 4:30 pm, 7:30, 8, 10. Tues, 11 am. Wed, Thurs, 4:30 pm, Wed, 7:30 pm, 8, 10, 11. Fri, 7:30 pm, 8:45, 10. Eastern. WLS

Chicago, III. 344.6m-870ke. 5000 watts. Sears, Roebuck & Co. Slogan, "World's Largest Store." Daily ex Sun, 8:50-1:39 pm, half hour markets; 12-1 pm, farm program; 2:30-3:30, homemakers hour. Wed, Fri, 5:30-12 mid. Sat, 5:30-1 am. Tues, Thurs, 5:30-8 pm. Sun, 10:50-2:30 pm. U. of Chicago; 6-8, Little Brown church. Central. Founded April 6, 1924.

Providence, R. I. 374.8m-800kc. 500 watts. Lin-colu Studios Inc. Mon, 6:45 pm. Tues, 6:30 pm. Wed. 7 pm. 9. Thurs, 6:30. Fri, 7 pm. Sat, 6:30 pm. Sun, 6:30 pm. Eastern.

Brooklyn, N. Y. 256.3m-1170kc. 250 watts. Voice of Brooklyn, Inc. Daily ex Sun, 4-7 pm. Mon, Tues, Thurs, Sat, Sun, 9-12 mid. Wed, Fri, 11-1 am. Esteru.

WLTS -Chicago, III. 483.6m-620kc. 100 watts. Lane Technical High School, Mon, 9-10 ani, 2-4 pm, 6-7. Tues, Wed, Thurs, Fri, 9-10 am, 2-4 pm. Central.

Harrison, Ohio, 428.3m-700kc, 5000 watts. 52m-5764kc. 250 watts. The Crosley Radio Corp. Announcer, Fred Smith. Daily ex Sun, 8 am, exercises; 10, woman's hour; 11, markets; 11:55, time; 12 n, musicale; 1:30, 3:30. markets; 6:50-12 mid. Sun, 9:30 am, 11, 3 pm, orkan; 7:30-8:30, service; 8:30-11. Alternate Sun, 5:30 pm, chain. Eastern. Founded, 1919.

New York, N. Y. 370.21n-810kc. 2000 watts. The Paulist League. Announcer, Joseph A. Bier. Slo-gan, "For God and Country."

WMAC----Cazenovia, N. Y. 225,4m-1330kc. 500 watts. C. B. Meredith. Announcer, C. R. Jones. Thurs, 12 n. farin program; 8 pm, popular studio. Founded 1922.

South Dartmouth, Mass. 416.4m-720kc. 1000 watts. Round Hills Radio Corp. Not operating.

WMAK

Buffalo, N. Y. 545.1m-550kc. 750 watts. Norton Laboratories, Inc. Announcer, William Fay. Daily ex Mon. Sup. 3:30 pm, baseball; 6:30, WGY; 7. about town; 7:15 pm, ems. Tues. Thurs. Sat. 6:15-7:15 pm, dinner music. Sun. 10:25 am, church; 1:30 pm, 3:30, 7:30 pm, church service. Eastern. Founded Sept. 22, 1921.

Washington, D. C. 302.8m-990kc. 250 watts. M. A. Leese Radio Co.

Columbus, Ohio. 234.2m-1280kc. 50 watts. First Baptist church. Announcer, John Bohannan. Sun, 10:30-12 n, 7:30-9 pm. Eastern.

WMAQ—— — Chicago, 111. 447.5m-670kc. 1000 watts. The Chicago Daily News. Announcer. Robert Whitmey, Daily ex Sun, 6:30-11 am 12 n 3 pm, 4-7, 8-10. Tues, Fri, 12-2 am. Wed, Sat, 1-2 am. Sun, 10:45-12 n, 7 pm, 8-10. Daily ex Sun, Sat, 12:10-12:25 pm, 1arm, Central.

St. Louis, Mo. 247.8m-1210kc. 1000 watts. Kingshighway Presbyterian church. Slogan, "May Every By-Way Hear Kingshighway." Sun, 11 am, 8 pm.

WMAZ-Macon, Ga. 270.1m-1110kc. 500 watts. Macon Junior Chamber of Commerce. Announcer, Milton Randolph. Mon, Wed, 1-2 pm. Tues, Thurs, 8-5

WMBA-R. I. 204m-1470kc. 100 watts. LeRoy

WMBB-Homewood, Ill. 252m-1190kc. 5000 watts. American Bond & Mortgage Co.-Trianon. Announcer, Hugh Aspinwall. Siogan, "World's Most Beautiful Ballroom." Daily ex Sun, Mon, 6-10:30 pm. Sun, 3-6 pm. 7-10:30. Central.

Detroit, Mich. 243.8m-1230kc. 100 watts. Michigan Broadcasting Co. Announcer, Gordon Higham Daily ex Sun, 6-10 pm. Eastern.

WMBD-Peoria Heights, III. 205.4m-1460kc. 250 watts.
Peoria Heights Radio Laboratory. Daily ex Thurs,
musicale. Sun. service.

WMBE

WMBE-St. Paul, Minn. 208.2m-1440kc, 10 watts. Dr.

Miami Beach, Fla. 384.4m-780ke. 500 watts. Fleet-wood Hotel. Daily, 7-8 pm; 7:30-9. Eastern. Founded 1924.

 $\mathbf{WMBG}$ ichmond, Va. 220.4m-1360kc. 15 watts. Havens nd Martin. Slogan, "The Daylight Station." An-ouncer, W. H. Wood. Daily ex Sun, 2-3 pm.

Joplin, Mo. 204m-1470kc, 100 watts, Edwin Dudley Aber, Announcers, M. E. Jones, E. D. Aber Siogan, "Where Memories Bring Happiness." Mon Tues, Wed, Thurs, 12:15-1 pn, 1-1:30, 5:30-7:30 8:30-10:30. Central.

Chicago, Ill. 263m-1140kc, 500 watts. Slogan, "The West Point of Christian Service." Daily ex Sun. 7-7-40 am, 10:30-11:30, 71:30-1:30 pm, 3:30-4:30. Daily ex Sun. Thurs. Mon. 8-9 pm. Thurs. 7-9 pm. Wed. 10-11:30 am. Sun, 3:30-7 pm. Cen-tral. Founded July 28, 1926.

Monessen, Pa. 232.4m-1290kc. 50 watts. Star theater. Fri, 9:45-11 pm. Eastern.

WMBL

Lakeland, Fla. 228.9m-1310kc. 50 watts. Benford's Radio studios.

WMBM emphis, Tenn. 209.7m-1430kc. 10 watts. Seventlay Adventist Church. WMBO---Auburn, N. Y. 220.4m-1360kc. 100 watts. Radio Service Laboratories.

WMBQ

Brooklyn, N. Y. 204m-1470kc. 100 watts. Paul J. Gollhofer.

Tampa, Fla. 252m-1190kc. 100 watts. F. J. Rey-nolds. Daily ex Sun, 1-2 pm, 2-3, 7-8, 8-9, 10-11.

WMBS -Harrisburg, Pa. 234.2m-1280kc. 250 watts. Mack's Battery Co. Announcer, W. S. McCachren. Slogan, "The Voice of the Susquehanna." Daily ex Sun, 11:30 am, musicale, 12 n, organ; 1 pm, women's club; 5:50, sports; 6, time, 6-11:30 pm, music. Sat, 11:30-3 am, Knut Kracker Klub frolic. Sun, 8:30 am-9 pm. Eastern. Founded March 1, 1924.

WMBU

Pittsburgh, Pa. 217.3m-1380kc. 50 watts. Paul J.

Youngstown, Ohio. 214.2m-1400kc. 50 watts. Youngstown Broadcasting Co., Inc. Founded Jan.,

WMBY-Bloomington, Ill. 199.9m-1500kc. 15 watts. Robert A. Isaacs.

Memphis, Tenn. 516.9m-580kc. 500 watts. The Commercial Appeal. Announcer, Francis S. Chamberlin. Slogan, "Station WMC, Memphis." "Down in Dixie." Club, "Midnight Frolic." Daily ex Sun, 9:45 am, 12 n, 2:30 pm, weather, markets, music. Daily, 8 pm, program; Tues, II pm, Midnight Frolic. Sun, 11 am, clurch service. Founded Jan. 20, 1923.

Hoboken, N. J. 370.2m-810kc. 500 watts. Hotel McAlpin. Announcer, Snedden Weir. Slogan, "Where the Searchlight Flashes and the White Way Begins." Daily ex Sun, Sat, 10:30 am. 1 pm. 2:45, 5, 6-1 am. Sat, 10:30-1 pm, 6-1 am. Sun, 10 am-12 mid. Eastern.

\*Saginaw, Mich.. 272.6m-1100kc, 250 watts. Wolverine Broadcasting Co.

Boston, Mass. 211.1m-1420kc. 100 watts. Mass. Educational Society. Founded Aug. 1, 1927.

Lapeer, Mich. 234.2m-1280kc, 30 watts. First Methodist Protestant Church. Daily ex Sat, 12-1 pm. Daily ex Sat. Thurs, 7:30-10 pm. Sun, 10:30-12 n, 12-1 pm, 4-5:30, 7:30-10. Central. Founded Dec. 6, 1926.

Jamaica, N. Y. 206.8m-J450kc. 10 watts. Peter J. Prinz. Tues, Thurs, 8-11:30 pm. Sat, 12-2:30 am. Sun, 12-2:30 pm, 9-11:30. Eastern.

New York, N. Y. 236.1m-1270kc. 500 watts. Madison Square Garden. Mon. Wed, Thurs, 9-12 mid. Tues, Fri, 6-9 pm. Eastern.

Roston, Muss. 352.7m-850kc, 500 watts. The Shepard Stores, Announcers, John J. Fanning, Ber Hadfield, E. Lewis Dunham, Joseph Lopez, Jean Sargent, Daily ex Sun, 10:30-11:30 am, 1-2 pm, 4-5, 6-12 mid, Sun, 10:45-1:30 pm; 3-5, 7:30-11. Eastern. Founded July 31, 1922.

Norman, Okla. 239.9m-1250kc. 500 watts. University of Oklahoma. Mon, Wed, Thurs, Sat, 7:15-8 pm. Tues, Fri, 12:15-1 pm, 2:30-3:30. Central.

Omaha, Nebr. 258.5m-1160kc. 500 watts. R. J. Rockwell. Announcer, Ronald J. Rockwell. Slogan, "Pioneer Station of Omaha." Fri, Sat, 7-9 pm 9-11 pm. Central.

Philadelphia, Pa. 288,3m-1040kc. 100 watts, Lennig Bros. Co. Slogan, "We Never Are Tired." Wed, 6:50 pm. Sat, 8 pm. Sun, 6:50 pm. Eastern.

Yankton, S. D. 302.8m-990kc. 500 watts 6 am-pm, 250 watts after 6 pm. Gurney Seed & Nursery Co. Daily and Sun, 11 am-10 pm. Sun, 11-12 n, 2-7 pm. Central. Founded Aug. 22, 1927.

Forest Park, III. 208.2m-1440kc. 200 watts. Michael T. Pafferty. Irregular hours,

Endicott, N. Y. 206.8m-1450kc. 50 watts. Hewitt-Wood Radio Co. Irregular schedule. WNBH

New Bedford, Mass. 260.7m-1150kc. 250 watts.
New Bedford Hotel. Announcer, I. Vermilya. Thers.
Thirrs, 7-8 pm. Wed. 6-10 pm. Fri, 6-10:30 pm.
Sun, 7:30-9 pm. Eastern.

Knoxville, Tenn. 206.8m-1450kc. 50 watts. Lons-dale Baptist Church.

Bloomington, III. 199.9m-1500kc. 15 watts. Gray, Trimble and Smith Elec. Co. Sun, 2-4 pm. Mon, 8-12 mid. Central. WNBO —— -

Washington, Pa. 211.1m-1420kc, 15 watts. John Brownlee Spriggs. Daily ex Sun, 2-4 pm, 9-11 pm. Sun, 11 am, 7 pm, services. Eastern.

WNBQ Rochester, N. Y. 202,6m-1480kc. 15 watts. Gordon P. Brown.

Memphis, Tenn. 228.9m-1310kc. 20 watts. Popular Radio Shop. Daily ex Sun, 6:30 pm. Sun, 2:30 WNBX -

Springfield, Vt. 241.8m-1240kc, 10 watts, WNBX Broadcasters.

Newark, N. J. 280,2m-1070kc. 500 watts. Herman Lubinsky. Announcer, W. A. Bingenheimer Slogan, "The Voice of Newark," Tues, Wed, Frisat, San, 6-6:30 pm, 8:30-12 midnight, dance music

WNOX-Knoxville, Tenn. 265.3m-1130kc. 1,000 watts. Peoples Telephone & Telegraph Co. Tues, Thurs, 7-10 pm. Sat, 9-12. Central.

WNRC -Greensboro, N. C. 223.7m-1340kc. 500 watts. Wayne M. Nelson. Founded Mar. 24, 1926.

New York, N. Y. 526m-570kc. 500 watts, New York Municipal Radio station. Announcer, Christie R. Bohnsack. Slogan, "Municipal Broadcasting Station of The City of New York." Daily, 7-10 pm. Eastern.

WOAI -San Antonio, Tex. 302.8m-990kc. 5,000 watts. Southern Equip. Co. (Evening News-Express). Announcer, I. G. Cummings. Slogan, "The Winter Plans and Grant Commings. Slogan, "The Winter State Winter." Daily ex. Sun, 10 am, weather reports, 12:15 pm. Fri. 8:30-93.30 pm. Fri. 9:30-10:30 pm. Sun, 11 an, service; 7:45 pm. Central. Founded summer 1922.

WOAN-Lawrenceburg, Tenn, 285.5m-1050kc, 250 watts. lames D. Vaughan, Announcer, James D. Vaughan. Sun, 11-12 n, 7:30-8:30 pm. Central.

Trenton, N. J. 239.9m-1250kc. 500 watts. F. J. Wolff. Slogan, "Trenton Makes; the World Takes." Daily ex Sun, 12:15-1:15 pm. Daily ex Sun, Sat, 6-7 pm. Wed, 7:30-9 pm. Fri, 7:30-8:30 pm. Sun, 7:30-9 pm. Eastern. Founded March 2, 1923.

WOBR -204m-1470kc. 10 watts. Karl Smith. (Port-WOBT —

Union City, Tex. 205.4m-1460kc. 15 watts. Titts-worth's Radio & Music Shop.

Charleston, W. Va. 267.7m-1120kc. 50 watts. Charleston Rudio Broadcasting Co. Announcer, Wally Fredericks. Slogan, "Watch Our Business Uniold." Daily ex Sun, 7-9 pm. Wed, Sat, 11-12 mid. Eastern,

WOC Davenport, Iowa. 374.8m-800kc. 5000 watts. The Palmer School of Chiropractic. Slogan, "Where the West Begins and in the State Where the Tall Corn Grows." Daily ex Sun, 12:27 pm, time; 12:30, markets; Tell the World Club, home hour; 5:45, chimes; 5:55, sport; Mon, 5:30 pm, WIZ; 7:05. Tues, 6:30, WeAF; 8, WEAF; 8:30. Wed, 7:30 pm, WEAF; 8:30, organ; 10. Thurs, 8 pm, 9, Fri, 7-8, WEAF; 8. Sun, 12 n, WJZ, pm, 6:30, 7:15, WEAF.

Note: Names town, N. Y. 223.7m-1340kc. 25 watts, A. E. Nercton, Announcer, Roy W. Fox. Slogan, "We're on Chautauqua Lake." Mon, 9-9:15, 9:15-12 midnight. Thurs, 7-8 pm. Sun, 10:30 am, 7:30-9.

WODA -Paterson, N. J. 293.9m-1020kc. 1000 watts, O'Dea Temple of Music. Slogan, "A Voice from the Silk City." Daily ex Sun, 12-1 pm; 5-7, 8:30-11. Found-ed April 13, 1925. Eastern,

Ames, Iowa. 265.3m-1130kc. 2500-5000 watts, Iowa State College. Announcer, A. G. Woolfries. Daily ex Sun, 7 am, 7:30, 8:45, 9:30, 10:30, 12:10, 12:15, pm, 12:30, 12:40, 12:45, 1 pm, 1:30, 9:30. Mon. 7:30 pm, 7:45. Thurs, 7:30, 7:45, 8. Founded April, 1922. Central.

WOK
Homewood, III. 252m-1190kc. 5000 watts. Karzas-Chicago Beach Hotel. Announcer, Hugh Ashinwall. Daily ex Mon, 11-12:30 am. Founded July 20, 1925. WOK

WOKO-Peekskill, N. Y. 215.7m-1390kc, 250 watts, H. E. Smith, Daily ex Sun, 10 am. Mon, 7:30 pm, 8, 9:15. Tues, Wed, 9, 10. Thurs, 7:30 pm, 8, 9, Fri, 8:30 pm, 9. Sat, 8 pm, 9. Sun, 10:25 am; 12:15 pm, 1, 3:30. Eastern.

Rochester, N. Y. 209.7m-1430kc. 500 watts. Titus-Ets Corp. Announcer S. C. Hitchcock Daily ex Sun, Mon. 11:30 am-2 pm, 6:45-10. Mon. 11:30-2 pm, 6:45-11 pm. Sun, 11-12:30 pm. Eastern.

Manitowoc, Wis. 222.1m-1350kc. 50 watts. The Mikadow theater. Daily ex Sun, 5:30-6:50 pm. WOO

Philadelphia, Pa. 508.2m-590kc. 500 watts. John Wanamaker. Daily ex Sun, 11 am, organ recital; 12:55, time; 12-1 pm, concert; 4:40, weather; 4:45, organ recital; 7:30, police reports; 10:55, time; 11:02, weather. Mon, Wed, Fri, 7:30-11 pm, music, concert. Eastern.

WOOD— Furnwood, Mich. 260.7m-1150kc. 500 watts. Walter B, Stiles, Inc. Mon, Tues, Wed, Thurs, Fri, 9-11 pm. Central.

Kansas City, Mo. 336.9m-890kc, 500 watts. 6 am-6 pm. Unity School of Christianity. Daily ex Sun, 11-11:30 am. Mon, 6-7 pm. 9-10. Tues, 6-7 pm. Wed, 6-7 pm. 8-10. Fri. 6-7 pm. 8-10 pm. Sat. 6-7 pm, 10-11 pm. Suu, 2:30-3:30 pm, 7:45-9:30. Central. Founded 1921.

WOR —— -Newark, N. J. 422.3m-710kc, 5000 watts, L. Bam-berger & Co. Daily ex Sun, 6:45-8 am, 2:30-4 pm. Daily and Sun, 6:15-12 mid. Founded 1922. Eastern.

WORD

Batavia, III. 389.4m-770kc. 5000 watts. Peoples
Pulpit association. Announcer, B. M. Rice. Slogan,
"Watchtower Station WORD." Daily ex Mon, Sun,
7-10 pm. Sun, 10-12 am, 2:30-5 pm, 7-10. Founded
Dec., 1924. Central.

WOS

Jefferson City, Mo. 468,5m-640kc, 500 watts, Missouri State Marketing Bureau, Announcer, Jack Heiny, Slogan, "Watch Our State." Daily ex Sun, 9 am, 10, 10:30, 11, 12 n, 1 pm, 2 markets; stocks, weather; 3:30, 4, 5, baseball, Mon, Tues, Wed, Thurs, Fri, 7 pm, markets, baschall; 7:15, news, Fri, 4 pm, children's hour. Mon, Wed, 8 pm. Fri, 8:15 pm, Central.

WoW

Omaba, Neb. 508.2m-590kc, 1000 watts. Woodmen of the World. Announcer, Lester Palmer. Slogan, "Where the West Is at the Best." Daily ex Sun, 8:15 am, 8:55, 10:30, 12:30 pm, 1:45, 4, markets. Daily ex Sun, Sat, 12:45 pm, Daily ex Sun, Wed, 6-7:30, 9-11. Sun, 9-10:45 am, 1:30 pm, 2:30-4 pm, 6, 9. Founded April 2, 1923. Central.

WOWO—

Fort Wayne, Ind. 228.9m-1310kc. 5000 watts, 6-6 pm. 2500 watts after 6 pm. Main Auto Supply Co. Mon, Wed, Thurs, 6-12 mid. Tues, 11 am Wed, Thurs, 12-1 pm. Fri, 11 am, 4-5 pm, 8-10. Sat, 12-2 pm, 6-6:30 pm. Sun, 2-4 pm, 8-10. Central.

WPAP

Cliffside, N. J. 394.5m-760kc. 500 watts. Palisades Amusement Park. Announcer, Perry Charles. Mon, Wed, Sat, 8 pm. Tues, Fri, 8:30 pm. Thurs, 9 pm.

 $\mathbf{WPCC}$  -

Chicago, III. 223.7m-1340kc, Shore Congregational church. Briggs. Wed, 7:30-8:30 pm. Fri, 7:30-9:30 pm. WPCH New York, N. Y. 309.1m-970kc. 500 watts. Concourse Radio Corp. Mon. 7-12 mid. Tues, 4-7 pm. Wed, 6-9 pm. Thurs, 4-12 mid. Sat, 4-7 pm, 9-2 am. Sun, 6:30-12 mid. Eastern.

WPEP —— -

Waukegan, III. 215.7m-1.390kc. 500 watts. Announcer, Maurice Mayer. Slogan, "Waukegan Pep Station." Daily ex Mon, 3-5 pm, 6:30-9, 9:30-12. Mon, 3-5 pm. Central.

WPG Atlantic City, N. J. 272-6m-1100kc, 5000 watts. Municipality of Atlantic City. Slogan, "World's Playgrounds," Daily ex Sun, Fri, 6:45-12:30 am. Sun, 4:15 pm, 5:15, 9, 9:15, 10:30. Eastern.

WPRC — Harrisburg, Pa. 209.7m-1430kc. 100 watts. Wilson Printing & Radio Co. Sun, 9-11 pm. Eastern.

State College, Pa. 299.8m-1000kc. 500 watts. Pa. State College. Slogan, "The Voice of the Nittany Lion." Mon, Wed, Fri, 8 pm. Fri, 12 mid. Eastern.

WPSW — Philadelphia, Pa. 202.6m-1480kc. 50 watts. Philadelphia School of Wireless Telegraphy. Wed, Fri, 7 pm. Eastern.

WQAA

Parkesburg, Pa. 215.7m-1390kc. 500 watts. Horace
A. Beale, Ir

Miami, Fla. 322,4m-930kc. 750 watts. Electrical Equip. Co. Announcer, Frederick W. Mizer. Slogan, "The Most Southern Radiocasting Station in 7.8," Daily ex Sun 11:45 am. Daily ex Sun, Sat, 7.8, pp. 910. Sat, 7.830 pm. Sun, 10:45 am, 7:30 pm. Eastern. Founded Feb. 1, 1922. WQAN — —

Scranton, Pa. 230.6m-1300kc, 100 watts, Scranton Times, Announcer, T. V. Nealon, Slogan, "The Voice of the Anthracite." Daily ex Sun, 12:30-1 pm, 4:30-5, news, reports, sports, music. Tues, Fri, 8 pm, entertainment. Sat, 6:30-7:15 pm, dance nusic. Eastern. Opened Jan. 8, 1923.

WQAO----- -New York, N. Y. 394.5m-760kc. 500 watts. Calvary Baptist church. Announcer, H. W. Kinsey. Slogan, "The First Church Owned and Operated Proadcasting Station in the World." Wed. 7:30 pm, church service. Sun, 1:15 am, 3 pm, 7:30, church service. Founded 1922. Eastern

Chicago, Ill. 447.5m-670kc. 500 watts. Calumet Baking Powder company-Chicago Daily News. Daily ex Sun, 11-12 n, 3-4 pm. Daily ex Sun, Mon, 7-8 pn, 10-2 am. Sun, 7-9:30 pm. Founded May 22, 1924. Central.

La Porte, Ind. 208.2m-1440kc. 100 watts. Radio Club, Inc. Announcer, Charles Middleton, Slogan, "The Voice of the Maple City." Daily ex Sun, 12-1 pm, 7-9. Sun, 10:45-12:15 pm. Founded April, 1932. Central

 ${f WRAH}-$ Providence, R. I. 199.9m-1500kc. 250 watts. Stan-ley N. Read.

WRAK-Escanaba, Mich. 282.8m-1060kc, 50 watts. Economy Light Company. Announcer, H. E. Flath. Slogan, "The Gateway to Cloverland." Mon, Fri, 8:30 pm. Eastern,

Galesburg, III. 247.8m-1210kc. 50 watts. Lombard College. Mon, 7-11 pm. Founded 1922, Centerly

Yellow Springs, Ohio. 340.7m-880kc. 100 watts. Antioch College. Announcer, Charles W. Putman, Thurs, 9 pm, music; 9, educational. Sun, 7 pm.

Reading Pa. 238m-1260kc. 100 watts. Avenue Radio & Elec. Shop. Slogan, "The Schuylkill Valley Echo." Announcer, C. M. Chafey. Tues, 9-11 pm. Thurs, 10-12 mid. Sun, 11 am, 1:30-2:30 pm, 3-4. Eastern. Founded June 5, 1923.

WRAX

Philadelphia, Pa. 212.6m-1410kc. 250 watts. Berachali Church, Inc. Tues, Thurs, 7:30-9:30 pm. Sun, 11:15-12:15 pm, 4-5. Eastern.

WRBC

Valparajso, Ind. 238m-1260kc. 250 watts. Immanuel Lutheran church. Announcer, A. Z. Archart. Slogan, "World Redeemed by Christ." Mon, 7:30 pm. Sun, 7:30 pm, church service. Central. Founded March, 1924.

Washington, D. C. 468.5m-640kc. 500 watts. Radio Corp. of America. Announcer, John B. Daniel. Slogan, "The Voice of the Capitol." Daily ex Sun, 6:45 am-1 pm, WEAF; 1-2, organ; 5-11 pm. Sun, 11 am-9:30 pm. Eastern.

Raleigh, N. C. 217.3m-1380kc. 250 watts. Wynne Radio Co. Sun, 10:45 am; 1 pm. Eastern,

Norfolk, Va. 209.7m-1430kc. 100 watts, Radio Corporation of Virginia. Slogan, "The Voice of the Business District." Wed, Fri, Sat, 7:30-9 pm. Sun, 10:30-12:15 pm., 7:15-8:45. Eastern.

Memphis. Tenn. 254.1m-1180kc. 50 watts. WREC Inc. Daily ex Sun, 8-9 pm. Sun, 4-5:30 pm. Cen-WREN -Lawrence, Kan. 254.1m-1180kc. 750 watts, Jenny Wren. Daily ex Sun, 10:45 am, women's hour. Central.

Quincy, Mass. 217.3m-1380kc. 50 watts. Harry Leonard Sawyer. Tues, Wed, Thurs, Fri, 8-11 pm.

Washington, D. C. 319m-940kc. 150 watts, Washington Radio Hospital fund. Daily ex Sun, 11-12 n, news, police reports. Founded 1924. Eastern.

# WRHM—— ——

Minneapolis, Minn. 260.7m-1150kc. 1000 watts. Rosedale Hospital, Inc. Announcer, Troy S. Miller, Daily ex Suu, 9-10:30 am, 5:45-6 pm, 6-7. Mon, Wed, Fri, 8-10 pm. Thurs, 10-12 mid. Sat, 6-11 pm. Sun, 2-6 pm, 6-12 mid. Central.

Pm. Sun, 2-0 p...,

WRK

Hamilton, Ohio. 205.4m-1460kc. 100 watts. WRK
Broadcasters. Daily ex Sun, 1:30-2:30 pm; 7:3010:30. Central. Founded 1919.

10:30. Centra..

WRM

Urbana, Ill. 272.6m-1100kc. 500-1000 watts. Univ of Ill. Announcer, John Bayles. Daily ex Sun, 5. jm. Tues, 7-8 pm, musical. Sun, 4 pm, organ

New York, N. Y. 201.2m-1490kc. 100 watts. A. II. Grebe & Co., Inc. Motor Yacht "MU-1."

Coytesville, N. Y. 309.1m-970kc. 500 watts. Experimenter Pub Co. Daily ex Sun, 11-1 pm, 2:30-4, 7-11 pm, Sun, 11 am, 1-6:30 pm. Eastern. Founded June 12, 1925. WRPI

Terre Haute, Ind. 208.2m-1440kc, 100 watts. Rose Polytechnic Institute Broadcasting Assn.

Dallas, Texas. 352.7m-850kc. 500 watts. City of Dallas. Announcer, John Thorwald. Slogan, "City of Achievements." Daily ex Sun, Wed, 12-1 pm, 6-7, 8-9. Mon, 9:30-10:30 pm, 11-12 midnight. Wed, 6:55 pm. Thurs. 9-10 pm, 11-12. Fri, 8-10 pm. Sun, 11-12 n; 6:55, police; 8, church; 9:30, music. Central.

Racine, Wis, 322.4m-930kc. 50 watts. Racine Broadcasting Corp. Announcer, F. G. Leavenworth, Daily ex Sun, Sat, 6-7 pm, news. Mon, Wed, Fri, 12-1 pm, organ, 7:30-10:30 pm. Central. Founded Dec. 1, 1926.

# WRSC -

Mass. 211.1m-1420kc. 100 watts. The

Bay Shore, N. Y. 211.1m-1420kc. 250 watts. Radiotel Mig. Co., Inc. Slogan, "Bay Shore, the Garden Spot of Long Island." Daily ex Sun, 5:45-6:30 pm, 7-11. Sun, 10-12 m, 8-11. Eastern. WRVA-

Richmond, Va. 254.1m-1180kc, 1000 watts, Larus & Bro. Co., Inc. Slogan, "Carry Me Back to Old Virginy." Amouncer, Elmer Hoezle, Mon, Wed, Thurs, Fri, 12-1:30 pm; 7-12 mid, Dajiy ex Sat, Sun, 11 am, 8 pm, Founded Nov. 2, 1925, Eastern.

Mason, Ohio. 361.2m-830kc. 5000 watts. United States Playing Card Co. Daily and Sun, 7-12 mid. Fri, 8-9 pm. Eastern.

# WSAJ

Grove City, Pa. 223.7m-1340kc. 250 watts. Grove City College. William L. Harman, activities. Irregular schedule. Founded Nov., 1921.

Allentown, Pa. 222.1m-1350kc, 100 watts. Allentown Call Pub, Co. Announcer, Charles Walp, Tues, Thurs, 8:15 pm. Eastern,

Fall River, Mass. 252m-1190kc, 100 watts. Doughty & Welch Elec. Co., Inc. Announcer, Barton G. Alhert. Daily ex Sun, 9-10 pm. Eastern.

111. 204m-1470kc. 100 watts. Zenith

# WSAZ -

Huntington, W. Va. 241.8m-1240kc. 100 watts. McKellar Elec. Co. Announcer, Glenn E. Chase. Daily ex Sun. 12-4, pn. 6-10. Sun. 10-12:30 pm, 3-4, 6-10. Eastern. Founded Feb., 1927.

# WSB

Atlanta, Ga. 475.9m-630kc. 1000 watts. Atlanta Journal, Announcer, Lambdin Kay. Slogan, "The Voice of the South," Daily ex Sun, 10 am, homemakers half hour; 12-1 pm, music, weather; 1, farm service; 2:30, reports; 3:30, baseball; 8-9, concert; 10:45-12, concert. Mon, 5:30 pm, WIZ. Tues; 7 pm, WEAF. Wed, 6:15 pm, health talk; 7, WIZ. Sat, 6 pm, S. S. Jesson, Sun, 9:30 am, 10:54, 5 pm, 6:15, WEAF; 8:15, music, Central.

Chicago, Ill. 232.4m-1290kc. 500 watts. World Battery Co. Daily ex Sun, Mon, Thurs, 6:30-8 pm. Daily ex Mon, 9-1 am. Sat, 2-4 am. Sun, 5-7 pm. Thurs, 6-7 pm. Central,

Louis, Mo. 440.9m-680kc, 250 watts, WSBF

South Bend, Ind. 238m-1260kc. 500 watts. South Bend Tribune. Announcer, C. G. Livengood. Mon. 8-10 pm. 12-1:30 pm. Wed, Fri, 8-10 pm. Founded 1922. Central.

New York, N. Y. 227.1m-1320kc, 250 watts. City Temple. Thurs, 7:45-9:30 pm. Sat, 10:45-1 pm. Sun, 7:30-9:30 pm. Eastern.

Virginia Beach, Va. 263m-1140kc. 500 watts. Virginia Beach Broadcasting Co. Announcer, George L. Sutherland. Slogan, "The Voice of Tidewater Virginia." Daily ex Sun, 11-1 pm. 1-3, 6:15-7:10 pm, 7-8, 8-9, 9-12 mid. Sun, 7-10 pm. Eastern.

Springfield, Tenn. 212.6m-1410kc. 150 watts. 638 Tire and Vulc. Co. Announcer, George H. Lawrence. Daily ex Sun, 12:30-1:30 pm, 7-9. Sun, 11 am. Central. Founded Jan, 7, 1927.

\_\_\_\_ Bay City, Mich. 374.8m-800kc. 250 waits World's Star Knitting Co. Announcer, S. F. Northcott. Slogan, "Where the Summer Trails Begin." Jaily ex Sun, 12-1 pm; 4. Mon, 9-11 pm, 12-2 am. Wed, 9-11 pm. Sat, 10-11 pm. Sun, 11 am. Eastern. Founded June 15, 1925.

# WSM ---- -

Nashville, Tenn. 340.7m-880kc. 5000 watts. National Life and Accident Insurance Company. Announcer, George Hay. Daily ex Sun, Sat, 11:45 am-12:30 pm, 1-1:30. Mon, 5:30-11 pm. Tucs, 6-10 pm. Wed, 6-10 pm. Thurs, 7-11 pm. Sat, 7-11 pm. Sun, 11 am, 7:45 pm, alternate services. Founded Oct. 5, 1925. Central.

# WSMB -

New Orleans, La. 322.4m-930kc, 500 watts. Saenger Theaters, Inc., and The Maison Blanche Co. Dailey ex Sun, 12:30-1:30 pm, 6-7 pm, Mon, Wed, Thurs, Sat, 8:30-10:30 pm. Founded April 21, 1925. Central.

# WSMK -

Dayton, Ohio. 296.9m-1010kc. 200 watts. S. M. Krolin, Jr. Slogan, "The Home of Aviation." Daily ex Sun, Thurs, 12-1 pm, 6-7, 8-10. Sat, 12-3 am. Sun, 10:45-12 n, 7:30-9 pm, Central.

# WSOE —

Milwaukee, Wis. 270.1m-1110kc. 500 watts. School of Engineering of Milwaukee. Slogan, "In the Land of the Sky-blue Waters." Daily ex Sun, 2:30-3:30 pm, natinee; 5:13-5:50, weather, Peter Rabbit; 5:50, library talk; 6:10, organ; 8-11, concert. Fri, 1:12 am, Victor hour. Fri, 7:45-8 pm, library talk. Sun, 3:30-4:30 pm. Bible class; 7:30-8:30, ehurch. Central. Founded Sept. 21, 1922.

WSRO
Middletown, Ohio. 384.4m-780kc. 100 watts. Radio Co. Announcer, Harry W. Fahrlander. Slogan, We Sell Radio Only. Tues, Fri, 10:30-11 am, 8-10 pm. Sun, 2-4 pm. Central.

Boston, Mass, 288.3m-1040kc, 100 watts. Tre-mont Temple Baptist church. Announcer, Raymond B. Meadler. Fri, 7:30-9 pm. Sun, 10 am, 6:30 pm. Eastern. Founded June 8, 1924.

# WSUI

lowa City, Iowa, 422,3m-710kc, 500 watts. Univ. of lowa, Announcer, Carl Menzer, Daily ex Sun, 9 am, 10,30, Daily ex Sat, Sun, 12,25 pm, 3,30. Mon, 8 pm, 9, 11. Wed, 8 pm, Sun, 9,30 pm, Mon, 11,15 pm, Sat, 7,30 pm, Sun, 9 pm, Founded Feb. 12, 1924. Central

Nuffalo, N. Y. 205.4m-1460kc. 50 watts. Seneca Vocational School. David Warnhoff, announcer, Slogan, "Watch Seneca Vocational School." Founded Nov. 9, 1925.

Syracuse, N. Y. 225.4m-1330kc, 500 watts. Clive B. Meredith. Announcer, Pierre Pouchot. Slogan, "Voice of Central New York." Daily ex Sun, Thurs, 6:20-10:30 pm. Eastern. Founded 1922.

Quincy, III. 236.1m-1270kc. 250 watts, Illinois Stock Medicine Broadcasting Corporation, Slogan, "The Voice of Agriculture," Daily ex Sun, 11:30-12:30 pm, Central, Founded Dec. 29, 1926.

Worcester, Mass. 516.9m-580kc. 500 watts. Worcester Telegram Gazette. Announcer, Chester Gaylord. Slogan, "The Voice from the Heart of the Commonwealth." Daily ex Sun, Sat, 10:30 am, 12:30, 12:35, 1 pm, 7:30, 8, 8:30, 9, 10, 11. Sat, 12 n, 1 pm. Sun, 5:30, 7:20-10:15 pm. Eastern.

# WTAL -

Toledo, Ohio. 280.2m-1070kc. 100 Toledo Broadcasting Co. Announcer, The Gateway to the Sea." Daily, 8 pm. Sat, 9 pm. Sun, 3 am. Eastern.

# $WTAM_{-}$

Cleveland, Ohio. 399.8m-750kc. 3500 watts. Willard Storage Battery Co. Announcer, R. B. Humphrey. Slogan, "The Voice from the Storage Battery." Daily ex Sun, 12:35 pm, 6-12 mid. Tues, 1:30 pm, heauty talk. Sun, 11 am, service; 3:30 pm, nusicale; 6, 7, 8, 9, 10. Founded Sept. 26, 1923. Fastern.

# WTAQ-

Eau Claire, Wis. 254.1m-1180kc. 500 watts. Gillette Rubber Co. Announcer, C. S. Van Gorden, Slogan, "The Voice of the Wilderness." Mon, 12:15 pm, weather, news, markets; 6, 6:30, 7:30, 17.0 Tues, 12 n, 6 pm, 9. Wed, 12:15 pm, 6, 6:30, Thurs, 12:15 pm, 6, 9, 10, Fri, 12 n, 6, 8, Sat, 12:15 pm. Sun, 11 am. Central. Founded Oct. 12, 1922.

# WTAR -

Norfolk, Va. 236.1m-1270kc. 500 watts. Reliance Electric Co. Announcer, J. K. Bohannon, Slogan, "Down in Old Virginia." Daily ex Sun, 6:30 pm, weather, markets, news, Tues, 8-9 pm, music.

Chicago, III. 288.3m-1040kc. 1500 watts. Illinois Broadcasting Corp.

# $\mathbf{WTAW}_{-}$

College Station, Tex. 309.1m-970kc. 500 watts. Agricultural and Mechanical College of Texas. Daily ex Sun, Sat, 12:15 pm. Founded 1922. Central. WTAX -

Streator, III. 322.4m-930kc. 50 watts. Williams Hardware Co., Radio Division. Announcer, N. B. Williams. Slogan, "Tappa Kegga Nails," Tues, 7-8 pm. Thurs, 8-12 mid. Sat, 8:30-10 pm. Central.

Lambertville, N.J. 220.4m-1360kc, 15 watts, W. Reynolds, Jr. & T. J. McQuire.

Vernon Hills, Va. 204m-1470kc. 50 watts.

Ga. 209.7m-1430kc, 250 watts. Toccoa stitute. WTHS —— –

Atlanta, Ga. 227.1m-1320kc. 200 watts. Atlanta Technological High School. WTIC \_\_\_\_ Hartford, Conn. 535.4m-560kc. 500 watts. The Travelers Insurance Company. Slogan, "The Insurance City." Daily, 6:30-11 pm. Sat, Old Gold program. Sun, 4:30-7:30 pm. Founded Feb. 10, 1924. Eastern.

Milwaukee, Wis. 293.9m-1020kc. 1000 watts. Milwaukee Journal. Announcers, Nate Caldwell, Larry Teich. Slogan, "Voice of Wisconsin, Land of Lakes," Daily ex Sun. 9:45 am-12:30 pm. 5:40-6 pm. Mon, Tues, Wed, 2-12 mid. Thurs, Fri, Sat, 2-10 pm. Sat, 7-7:30 pm. Sun, 1 am-10 pm. Central

# WTRC -

Weber, Announcer, Bob Rorhigt Daily ex Sun, 7,30-11:30 pm. Sun, 10:30-12:15 pm. Sat, 2-5 pm.

Midland Park, N. J. 206.8m-1450kc. 15 watts. Technical Radio Laboratory.

Chicago, III. 227.1m-1320kc. 500 watts. Dr. George F. Courrier. Daily ex Sun, Mon, 7-9 pm. Central.

Detroit, Mich. 352,7m-850kc. 1000 watts. The Detroit News. Announcer, E. L. Tyson, F. P. Wallace. Mon, Wed, Fri, 9;30-9;45, household hints; 10:25-10:30, weather; 11:55-12, time; 12:05-12:45 pm, nusic; 4, music. Daily ex Sat, Sun, 6-7, dinner concert. Mon, 7;30 pm, WEAF; 9, WEAF. Tues. 7 pm, WEAF. Wed, 7:30 pm, music; 8:30, WEAF; 9:30, WEAF. Sun, 11 an, 7:20 pm, WEAF; 9:15, WEAF. Eastern. Founded Aug., 1920.

# WWL

New Orleans, La. 275.1m-1090kc. 100 watts. Loyola Univ. Announcer, O. L. Ahell. Sat, 7:30-8:30 pm. Central. Founded March 31, 1922.

# **WWNC**

Asheville, N. C. 296.9m-1010kc. 1000 watts. Asheville Chamber of Commerce. Daily ex Sun, 1 pm, 2, 7-8. Mon, 8-12 mid. Thurs, 8-10:45 pm. Sun, 11 an, 8 pm. Eastern.

# WWRL-

# Woodside, N. Y. 267.7m-1120kc. 100 watts. WWVA-

Wheeling, W. Va. 389.4m-770kc. 100 watts. John C. Stroebel, Jr. Daily ex Sun, 6:45-7:45 am, 2 pm, 6. Mon, 7-11 pm. Sat, 11-1 am. 2 pm. Eastern. Founded Dec. 6, 1926.

# Canada

**CFAC** Calgary, Alta., Can. 434.5m-690kc. 500 watts. Calgary Herald. Announcer, Fred Carleton. Daily ex Sun. 1:15 pm, weather, markets. Mon. 3:30-4:30 pm; 9:30-10:30. Tues, 6-7 pm. Wed, 3:30-4:30 pm; 7:45-8:45. Thurs, 9 pm. Mountain. Founded May 4, 1922.

# **CFCA**

Toronto, Ont., Can. 356.9m-840kc. 500 watts, Toronto Star. Announcer, Gordon W. McClain. Daily ex Sun, 12 n, 5:20, 6:30, weather, stocks. Mon, 6:30-8 pm. Wed, 8-12 mid. Thurs, 8-9 pm, 10:30-12 mid. Sat, 8-10 pm. Sun, 11 am, 7 pm. Eastern.

Montreal, P. Q., Can. 410.7m-730kc. 1650 watts. Canadian Marconi Co. Announcer, C. Walter Darling. Daily ex Sun, 12:45-1:40 pm, stocks, music. Mon, Fri, 7-7:30 pm, bedtime stories; 7:30-8:30 pm, bedtime stories; 7:30-8:30 pm, corchestra. Wed, 7-8 pm, orchestra. Eastern.

Iroquois Falls, Ont. 499.7m-600kc. 250 watts. Abitibi Power and Paper Co., Ltd. Calgary, Alta., Can. 434.5m-690kc, 1800 watts. W. W. Grant, Ltd. Slogan, "Voice of the Prairies." Tues, 9-10 pm. Wed, 9-10 pm, 11-12. Thurs, 7:45-8:45 pm. Fri, 9-10 pm. Sun, 11 am, 7:15 pm, services, 3 pm. Mountain.

cFCQ er, B. C. 410.7m-730kc. 10 watts. Sprott-idio Co.

Victoria, B. C., Can. 475.9m-630kc. 500 watts. The Deaville Station. Slogan, "The Mecca of Tourists." Wed, Fri, 8-9:30 pm. Every second Thurs. 10:30 pm, 12 mid. Night Birds. Sat, Mon, 6:30-7:30 pm, 10-11. Sun, 11 am, 7:30 pm. Pacific. On air Mar, 1924

# CFCY -

Charlottetown, P. E. I. 312.3m-960ke. 100 watts. Island Radio Co. Wed, Thurs, 7-8 pm. Sun, 11

# CFGC.

Brantford, Ont. 296.9m-1010kc. 50 watts. Brant Radio Supply Co., Ltd. Daily ex Sun, 7-9 pm. Sun, services. Eastern. **CFJC** 

# ops, B. C. 267.7m-1120kc. 15 watts. N. S. sh and Sons, Weller and Weller.

on, Ont., Can. 267.7m-1120kc. 20 watts. h Battery Mig. Co., Ltd. CFNB -Fredericton, N. B. 247.8m-1210kc. 25 watts. James S. Neill & Sons, Ltd.

**CFOC** Saskatoon, Sask., Can. 329.5m-910kc. 500 watts. The Electric Shop, Ltd. Announcer, Grant Stevenson, Slogan, "The Hub City of the West Where No. 1 Northern Hard Wheat Crows," Daily ex Sun 9.10 am; 1:15-2 pm, markets, reports, music Wed, 8-10 pm. Fri, 9-11:30 pm, dance program, Sun, 11 am, 7 pm, church service. Mountain.

CFRB Township of King, York County, Ont. 291.1m-1030kc, 1000 watts. Standard Radio Mfg. Corp.,

CFRC -

# Kingston, Ont., Can. 267.7m-1120kc. 500 watts. Queen's University.

Vancouver, B. C. 410.7m-730kc. 500 watts. Inter-national Bible Students' Assn.

Hamilton, Ont., Can. 340.7m-880kc. 10 watts. Hamilton Spectator. Announcer, H. Earnshaw. Daily ex Sun., 6:45 pm., news, markets, baseball. Sat. 10-12 midnight, dance. Sun, 11 am, 7 pm. Eastern. King Edward Park, Edmonton. 516.9m-580kc, 250 watts. International Bible Students' Association. Tues, Thurs, Sat, 8:30-10 pm, Sun, 10-11 am, 3-4 pm, 9:15-10:30. Eastern. Founded May 11, 1926.

Summerside, P. E. I. 267.7m-1120kc. 50 watts. R. T. Holman, Ltd. Daily ex Sun, 12 n. Sun, 11

Toronto, Can. 356.9m-840kc, 500 watts. Northern Electric Company, Ltd. Announcer, R. W. Low-man, Mon, 8-9 pm, 11-1 am, Sat, 10-11 am, 8-9 pm, 10-12 mid. Sun, 5-6 pm. Eastern. CHMA —

Edmonton, Alta. 516.9m-580kc. 250 watts. Christian & Missionary Alliance. onto, Can. 356.9m-840kc. 500 watts. Toronto lio Research society.

Radio Research society.

CHNS

Halifax, N. S. 322.4m-930kc. 100 watts. Northern Elec. Co., Ltd. Wed, 7:30-11 pm. Sun, 7-10:30

CHPC Vancouver, B. C. 410.7m-730kc. 100 watts. Central Presbyterian Church.

Quebec, Que, 340.7m-880kc, 5 watts, E. Fontaine. Unity, Sask. 267.7m-1120kc. 50 watts. H. N. Stovin, Radio Sales. Tues, Thurs, Fri, 7:30-9 pm. CHUC

www.americanradiohistory.com

Saskatoon, Sask. Can. 329.5m-910kc, 500 watts International Bible Students' association. An-nouncer, C. Roberts, Tues, 7:30-10 pm, Thurs 8:30-10 pm, Fri, 7:30-8:30 pm, Sun, 12:45-2:15 pm, 8:30-10 pm CHWC Regina, Sask., Can. 312.3m-960kc, 500 watts. R. H. Williams & Sons, Ltd. Daily ex Sun, 12-1 pm, 5-6, Wed, Sat, 8-10 pm. Mountain,

# CHYC -

Montreal, Que., Can. 411m-730kc, 750 watts. North-ern Elec. Co., Ltd. Announcer, N. S. Richards. Wed, 7-12 mid. Sun, 11 am, 7 pm. CNRM pro-grams occasionally. Eastern.

# **CJBC** Toronto, Ont. 291,1m-1030kc. 500 watts. Baptist

# CJBR

Regina, Sask. 312.3m-960kc. 500 watts. Saskatchewan Co-operative Wheat Producers, Ltd.

Edmonton, Alta., Can. 516.9n:580kc. 500 watts. Edmonton Journal, Ltd. Announcer, R. A. Rice. Slogan: "The Sunniest Spot in Sunny Alberta", Daily ex Sun, 12:30 am, markets, news; 7:15 ram, children's program; 7:45, late news. Mon. Fri. 8:30 pm. Wed, 9-11 pm. Fri, 9-11 pm. Sun, 7:30 pm. Mountain.

# CJCJ

Calgary, Alta. 434.5m-690kc, 250 watts. Radio CJCU

# Mission City, B. C., 247.8m-1210kc. 5 watts. E. R.

CJGC London, Ont., Can. 329.5m-910kc. 500 watts. London Free Press. Daily ex Sun, 1-2 pm, stocks, music. Tues, Wed, Thurs, Fri, 7-9 pm. Fri, 11-12 midnight. Sun, 11 am, 2-3 pm, 7, church services. Eastern.

CJGX -

# orkton, Sask. 475.9m-630kc. 500 watts. The Win-peg Grain Exchange.

**CJOR** Sea Island, B. C. 291.1m-1030kc. 50 watts. G. C.

# CJRM

Moose Jaw, Sask. 296.9m-1010kc, 500 watts. James Richardson & Sons, Ltd. Daily ex Sun, 11:55-2:30 pm, weather, markets, Mon, Wed, Fri, 6:30-pm, Sat, 10-12 mid. Sun, 9:30 am, sacred music; 9:30-CJSC

# Can. 356.9m-840kc, 500 watts. The Eve-egram, CJWC -

Saskatoon, Sask., Can. 329.5m-910kc, 250 watts. Wheaton Elec. Co. Announcer, M. Bowes. Daily ex Sun, 11:45-1 pm. Mon, 8:15-10 pm. Tues, Fri, Sat, 6-7 pm. Sun, 3:45-5 pm. Founded Sept. 28, 1925.

# CJYC

Toronto, Can. 291.1m-1030kc. 500 watts. Universal Radio of Canada, Ltd. Mon. 6-8 pm, 9-10. Tues, 10-11 pm. Thurs, 8-10 pm. Eastern. CKAC Montreal, Que., Can. 410.7m-730kc. 1200 watts. La Presse. Announcer, Jacques Cartier. Mon, Wed, Fri, 1:45 pm, orchestra. Daily ex Sat. 4 pm, weatther, markets, stocks, reports. Tues, Sat. 7 pm, safety talks; 10:30, dance. Sun, 2:45 pm. Capitol theater; 4:30, first three Thurs of month, CNRM. Last Thurs, Frontenac Breweries studio. Eastern.

Vancouver, B. C., Can. 410.7m-730kc, 1000 watts. Vancouver Daily Province. Announcer, W. G. Hassell, Slogan, "Canada's Western Gateway." Mon. Tues, Wed, 8:30-9:30 pm. Thurs, Fri, 8:30-8:50 pm. Sat, 8:30-10:30 pm. Pacific.

# CKCI Quebec, Que. 340.7m-880kc. 22½ watts. Le Soleil,

CKCK -Regina, Sask., Can. 312.3m-960kc, 500 watts. Leader Pub. Co. Announcer, A. W. Hooper, "The Queen City of the West," Mon. Tues, Thurs, Fri, 9:45-10:30 am, 1-1:45 pm, 8-10. Wed, Sat, 9:45-10:30 am, 1-1:45 pm. Sun, 9-10 pm. Mountain,

CKCL Toronto, Can. 356,9m-840kc. 500 watts. The Dominion Battery Co., Ltd. Daily ex Sat, Sun, 10:30 am, 10:58, time. Mon. Wed, Fri, 7 am, 7:20, 7:40, exercises. Mon, 12:30 pm, markets; 3-4:30 pm, 6:40-1. Wed, 12:30 pm, 3-4:30 pm, Thurs, 3-4:30 pm. Fri, 11 am, 12:30 pm, markets; 3-4:30 pm. Sat, 7-8 pm. Sun, 3-5 pm, Eastern. Founded May 5, 1925.

CKCO Ottawa, Ont., Can. 434-5m-690kc. 100 watts, Dr. G. M. Geldert (Ottawa Radio Assn.). Announcer, Dr. O. K. Gibson. Slogans, "Ottawa's Radio Voice," "The Community Voice of Canada's Capital." Tues, 8-10 pm. Sun, 7 pm. services; 9, sacred concert. Eastern. Founded Marc., 1924.

# **CKCV**

Quebec, P. Q. 340.71n-880kc. 50 watts, G. A. CKCW

# Burketon Junction, Ont., Can. 312.3m-960kc. 5,000 watts. Canadian Broadcasting Corp.

Toronto, Ont. 291.1m-1030kc. 500 watts, International Bible Students' Assn. CKFC

# Vancouver, B. C., Can. 410.7m-730kc. 50 watts. United Churches of Canada.

Red Deer, Alta. 356.9m-840kc. 1000 watts. Atberta
Pacific Grain Co. Ltd.

CKMC

Cobalt, Ont. 247.8m-1210kc. 5 watts. R. L.
MacAdam.

Toronto, Ont., Can. 356.9m-840kc. 500 watts. Canadian National Carbon Co., Ltd. Announcer, Ed. J. Stafford. Mon, Thurs, 9 pm. Eastern, Founded May 2, 1924. Founded May 2, 1924.

CKOC

Hamilton, Ont., Can. 340,7m-880kc. 50 watts.
Wentworth, Radio Supply Co., Ltd. Announcer,
L. Moore. Slogan, The Voice of Hamilton.",
Mon. Sat, 6:15-7:15 pm, organ, Tues, Wed, Thrus,
5:30-6:30 pm, Fri, 6-7 pm, Sat, 4:30-5:30 pm, Sun,
2-3 pm, Eastern.

Preston, Ont. 247.8m-1210kc, 7½ watts. Wallace Russ. Mon, Fri, 8-11 pm. Sun, 11-12:30 pm, 3-4:30.

# CKPR -Midland, Ont. 267.7m-1120kc. 50 watts. E. O. Swan.

CKSH St. Hyacinthe, P. Q. 312.3m-960kc. 50 watts. City of St. Hyacinthe.

# CKSM —

Toronto, Ont. 291.1m-1030kc. 1000 watts. St. Michael's Cathedral.

Edmonton, Alta. 516.9m-580kc. 500 watts. U. of Alberta.

# An Evening at Home With the Listener In

# IN CENTRAL TIME

# IN EASTERN TIME

Call Met. Kc. Watts Sa	turday Sunday	Monday	Tuesday	Wed.	Thursday	Friday	Call	Location	Met. Kc.	Watts	Saturday	Sunday	Monday	Tuesday	Wed.	Thursday	Friday
CKAC 410.7 730 7500 7:1 CKCL 356.9 840 5000 6:0	Silent 7:00- 7:15 30-12:30 Silent 15-12:00 2:45- 5:45 00- 7:00 2:00- 3:00	7:30-10:00 Silent Silent	Silent 7:15-11:30 5:00- 1:00	7:30-10:00 Silent Silent	6:25- 9:30 Silent 8:30- 9:30 Silent	Silent Silent	CFCA CJRM CKAC CKCL CKCL	Toronto Moosejaw Montreal Toronto	410.7 730 356.9 840	500 50 7500 5000 5000	Silent 12:30- 1:30 8:15- 1:00 7:00- 8:00 Silent	8:00-10-15 Silent 3:45- 6:45 3:00- 4:00 Silent	7:15- 9:15 8:30-11:00 Silent Silent 8:00- 9:00	Silent Silent 8:15-12:30 6:00-12:00 Silent	Silent Silent	7:25-10:30 Silent 9:30-10:30 Silent 10:00-11:00	Silent 8:30-11:00 Silent Silent Silent
CKY 384.4 780 500 7.5 CNRO 434.5 690 500 5 CYH 311 964 250 5 CYJ 400 750 1000 9.5	Silent 30-10:30 Silent 5ilent Silent 9:30-11:00 30-10:00 Silent 9:30-11:00 30-10:00 Silent	6:00-10:00 Silent 9:00-10:00	Silent Silent 9:00-10:00	Silent 8:00-10:00 6:00-11:00 9:30-11:30 9:00-10:00 5:20-10:00	9:00-10:00 7:30- 9:00 Silent Silent 9:00-10:00 5:20- 9:00	Silent Silent Silent 9:30-10:30 9:00-10:00 5:20-10:30	CKY CNRO CYH CYJ	Toronto Winnipeg Ottawa Monterey Mexico City Pittsburgh	311 964 400 750	500 500 250 1000	8:30-11:30 Silent Silent 10:00-11:00	7:00-10:00 Silent 10:30-12:00 Silent 7:00-10:15	7:00-11:00 Silent 10:00-11:00	Silent Silent Silent 10:00-11:00 6:00-11:35	7:00-12:00 10:30-12:30 10:00-11:00	8:30-10:00 Silent Silent 10:00-11:00 6:20-10:00	Silent Silent 10:30-11:30 10:00-11:00 6:20-11:30
KFAB 309.1 970 2000 8:: KFDM 374.8 800 500 7:	30-10:00 9:00-10:00 Silent 8:00- 9:00 30- 8:30 7:00- 8:00	8:30-10:15 Silent 7:30- 8:30	8:05-10:30 8:00-10:00 7:30- 8:30 8:15- 1:00	8:30-10:30 Silent	Silent Silent	8:30-10:00 8:00-10:00 7:30-8:30	VEAD	Lincoln	200 1 970	2000	Silent 8:30- 9:30 9:30- 3:00	10:00-11:00 9:00-10:00 8:00- 9:00 9:00- 1:00 2:30-10:00	Silent 8:30- 9:30 9:15- 2:00	9:05-11:30 9:00-11:00 8:30- 9:30 9:15- 2:00 8:15- 9:30	Silent 8:30- 9:30 9:15- 2:00	Silent Silent 8:30- 9:30 9:15- 2:00 8:15- 9:30	9:30-11:00 9:00-11:00 8:30- 9:30 9:15- 2:00 8:15- 9:30
KFNF 461.3 650 2000 555 KFOA 447.5 670 1000 105 KFON 241.8 1240 500 8 KFRU 249.9 1200 500 5	30- 2:00 15- 2:00 100- 7:00 000- 7:00 00- 11:00 00- 2:00 Silent 8:00- 2:00 Silent 2:00- 9:00 Silent 2:00- 9:00	8:00- 7:00 8:00-11:00 8:00- 2:00	7:15- 8:30 5:00- 7:00 8:00- 2:00 8:00- 2:00 6:15- 7:15	8:00- 2:00 Silent	5.00. 7.00	7:15- 8:30 5:00 -7:00 8:45- 2:00 8:00- 3:00 6:15- 7:15 6:00- 9:00	KFNF KFOA KFON KFRU KFSD	Shenandoah Seattle Long Beach Columbia San Diego			7:00- 8:00 11:00-12:00 9:00- 3:00	6:00- 8:00 Silent	6:00- 8:00 9:00-12:00 9:00- 3:00	6:00- 8:00 9:00- 3:00 9:00- 3:00 7:15- 8:15 7:00-10:00	6:00- 8:00 9:00- 1:00 9:00- 3:00 Silent	6:00- 8:00 9:30- 2:30 9:00- 3:00 7:15- 1:00 7:00-10:00	6:00- 8:00 9:45- 3:00 9:00- 4:00 7:15- 8:15
KFUO 545.1 550 500 7: KFVE 234.2 1280 1000 6: KFWB 361.2 830 500 83	:15- 8:15 9:15-10:15 :45-12:00 7:00-10:30 :00- 2:00  10:30- 1:00 :00- 3:00  8:30-12:00	8:00: 9:00 7:00-12:00 8:00- 2:60	6:30- 7:30 7:00-12:00 8:00- 2:00	9:30-10:30 7:00-12:00 8:00- 2:00 8:00-12:00	Silent Silent 8:00- 2:00 8:00- 2:00	7:15- 8:15 7:00-12:00 9:00- 2:00 8:00-12:00	KFUO KFVE KFWB KFWI	St. Louis St. Louis Hollywood	545.1 550 234.2 1280 361.2 830	500 1000	8:15- 9:15 7:45- 1:00	10:15-11:15 8:00-11:30	9:00-10:00 8:00- 1:00 9:00- 2:00	7:30- 8:30 8:00- 1:00 9:00- 2:00 9:00- 3:30 9:00-12:00	9:00- 2:00 9:00- 3:00	Silent Silent 9:00- 2:00 9:00- 3:00 9:00-12:00	9:00- 3:00
KGA 260.7 1150 2000 KGO 384.4 780 5000 10:	Silent 9:50-11:30 :00- 3:00 8:30-12:00 :00- 2:00 9:30- 1:00 :30-12:00 9:00-12:00 Silent 4:00- 5:00 :00- 1:00 9:15-12:43	8:00-11:00 8:00-11:20 8:00- 2:00	8:00-11:00 8:00- 1:00 8:00- 2:00 10:00- 1:00 1	8:00- 2:00 8:00-12:00 0:00 -1:00 9:00-10:00	8:00- 2:00 10:00- 1:00 Silent	8:00- 2:00 8:00- 2:00 10:00- 1:00 9:00-10:00	KHJ KIAF	Spokane Oakland Portland Los Angeles Sihtipok Seattle	384.4 780 491.5 610 405.2 740 421 709 348.6 860	2000 5000 1000 500 500 2500	11:00- 5:30 Silent 11:00- 4:00 9:00- 3:00 11:00- 1:00 Silent 9:00- 1:00	9:30- 1:00 10:30- 2:00 10:00- 1:00 3:00- 4:00 9:00- 2:00		9:00- 2:00 9:00- 3:00	9:00- 3:00 9:00- 1:00 11:00- 2:00	9:00- 3:00 9:00- 3:00 9:30- 2:00 Silent	9:00- 3:00 9:00- 3:00 9:30- 2:00 8:00- 9:00
KLDS 270.1 1110 1500 KLX 508.2 590 500 KMA 394 5 760 1000 6:	Silent 9:15-10:13 Silent Silent :00- 9:00 Silent	Silent 9:00-12:00 6:00- 9:00	8:00- 9:00 Silent 6:00- 9:00 8:00- 9:00	Silent 8:30-12:00 6:00- 9:00 Silent	8:00 9:00	Silent 9:00-12:30 6:00- 9:00	KLDS KLX KMA KMMJ	Independ Oakland Shenandoal Clay Center Hollywood.	270.1 1110 508.2 590 394.5 760	500	Silent Silent 7:00-10:00 9:00-10:00	10:15-11:15 Silent Silent 9:45-10:45	Silent 10:00- 1:00 7:00-10:00 9:00-10:00	9:00-10:00 Silent 7:00-10:00 9:00-10:10	Silent 9:30- 1:00 7:00-10:00	7:00-10:00	10:00- 1:30 7:00-10:00 9:00-10:00
KOA   325.9   920   5000   KOIL   277.6   1080   2000   KOIN   319   940   1000   93 KOMO   305.9   980   1000   83	00- 9:00 8:45- 9:4 :00- 2:00 6:30-12:00 :31ent 7:30- 8:4 :31ent 6:00-12:00 :00- 2:30 9:00-12:00 :00- 2:00 8:00-12:00	8:30-11:00 6:00-12:00 8:00-12:00 8:00- 2:30	9:00- 1:00 8:30- 9:30 6:00-12:00 8:00-11:30 8:00- 2:30	9:00- 2:00 8:30-11:00 6:00-12:00 8:00- 1:30 8:00- 2:30 8:00- 1:00	9:00- 4:00 Silent 6:00-12:00 8:00-12:00 8:00-12:00 8:00- 1:00		KOA	Denver	325.9 920 277.6 1080 319 940 305.9 980	2000 1000 1000	Silent Silent 10:15-11:00	8:30- 9:45 7:00- 1:00 9:00- 1:00 10:00- 1:00	9:30-12:00 7:00- 1:00 9:00- 2:30 9:00- 3:30	9:30-10:30 7:00- 1:00 9:00-12:30 9:00- 3:30	7:00- 1:00 9:00- 2'3(, 9:00- 3:30	Silent 7:00- 1:00 9:00- 1:00 9:00- 1:00 9:00- 2:00	7:00-1:00
KPRC 293.9 1020 500 7: KPSN 315.6 950 1000 10: KSBA 267.7 1120 1000 9: KSD 545.1 550 500	:30-12:00 7:50-10:3 :00-11:00 8:00- 9:00 :00-10:00 8:00- 9:00	7:30-12:00 10:00-11:15 0:30-9:00	7:30- 9:30 10:00-11:15	7:30- 9:30 Silent	7:30-12:00 10:00-11:15	Silent 10:00-11:15	KPRC KPSN	Houston Pasadena St. Louis Shreveport. Salt Lake Clarinda	293.9 1020 315.6 950 545.1 550 267.7 1120 245.8 1220	500 1000 500 1000 1000	8:30- 1:00 11:00-12:00 Silent 10:00-11:00 10:00- 1:00	7:20- 9:45	11:00-12:15 10:30-11:30 7:30-10:00	l 7·30- 1:00	5 Silent 8:00- 9:30 7:30-10:00	7:30-10:00	7:00- 9:30 7:30-10:00
KSO 227.1 1320 500 KTAB 280.2 1070 500 KTHS 384.4 780 1000 8: KVOO 348.6 860 1000 7:	;00-12:00 8:30-11:0 Silent Silent 9:45-11:1 :30-10:00 8:30- 9:4 :00- 9:00 6:00- 8:1 :00-12:00 9:00-12:0	50 8:00-12:00 7:30- 9:00 5 10:00-12:00 5 8:30-10:00 5 6:00- 9:00 0 9:00-12:00	7:00- 9:00 7:30- 9:00 10:00-12:00 6:00-10:00 6:00- 9:00 9:00-12:00	7:30- 9:00 12:00-12:00 8:30-10:00 6:00- 9:00 9:00-12:00	7:30- 9:00 10:00-12:00 8:30-10:00 6:00- 9:00 9:00-12:00	7:30- 9:00 10:00-12:00 6:30- 1:00 6:00- 9:00 9:00-12:00	KSO KTAB KTHS KVOO KWKH	Clarinda Oakland Hot Springs Bristow Kennonw'd	227.1 1320 280.2 1070 384.4 780 348.6 860 394.5 760	500 500 1000 1000 1000	9:30-11:00	9:30-10:45	9:30-11:00	7:00-11:00	9:30-1:00 8:30-10:00 11:00-1:00 9:30-11:00 7:00-10:00 10:00-1:00	7:00-10:00	7:00-10:00
KYA 309.1 970 500 9: KYW 526 570 2500 6: NAA 434.5 560 500 PWX 400 750 500 7:	::00- 2:00 9:30-10:3 ::00-11:05 5:30-10:5 Silent Silent ::30-11:00 7:30-12:0	8:00-12:00 Silent 6:45- 7:00	8:00-12:00 6:00-11:05 7:30- 8:30 8:30-10:00	8:00-12:00 6:00-11:05 Silent 7:30- 9:00 6:00-11:30	8:00-12:00 6:00-11:05 Silent Silent	8:00-12:00 6:00-11:05 Silent	KYA KYW NAA PWX	San Fran Chicago Radio Havana Newark New York	. 526 570 . 434.5 690 400 750	2500 500 500	7:00-12:05 Silent 8:30-12:00 6:30- 7:30	10:30-11:30 6:30-11:35 Silent 8:30- 1:00 Silent	Silent 7:45- 8:00 Silent 7:00-12:30	7:00-12:05 7:45- 8:00 9:30-11:00 6:30- 7:30	7:25- 8:40 8:30-10:00 7:00-12:30	Silent 6:30- 7:30	7:45- 8:00 Silent 7:00-12:30
WABC   325.9   920   2500   WADC   293.9   1020   500   WAIU   282.8   1060   5000   WAMD   225.4   1330   500   4	30- 6:30   Silent   Silent	6:30-12:00 8:00-11:00 6:00-11:00 5 6:00-11:00	Silent Silent 9:00-11:00 7:00- 8:00	6:30-10:01 6:15- 7:15 Silent 6:15-11:00 5:30-10:00	Silent 9:00-11:00 Silent 6:00- 8:00	6:15-11:00 6:00-11:00 6:00-11:00	WAIU	Columbus. Minneapoli	. 282.8 1060 s 225.4 1330	5000 5000	Silent Silent Silent 5:15- 6:15 Silent	Silent Silent Silent 7:00-11:15 6:00- 8:30	7:30- 1:00 9:00-12:00 7:00-12:00 7:00-12:00 6:30-10:00	Silent 10:00-12:00 8:00- 9:00	Silent 7:15-12:00	Silent 10:00-12:00 Silent 7:00- 9:00 6:30-10:00	7:00-12:00 7:00-12:00 6:30-10:00
WBAP 499.7 600 1500 6 WBBM 389.4 770 1000 8 WBBR 256.3 1170 1000 WBCN 288.3 1040 500 7	9:30-1:00 8:00-1:00 8:00-1:00 6:00-7:0 6:00-7:0 4:00-9:1	0 Silent 0 6:00- 8:00 5 Silent	8:00-12:00 6:00- 8:30	7:00-12:00	7:00- 9:00 7:00- 1:00	8:00-10:15 6:00- 7:00 7:00-12:00	WBAP WBBM WBBR WBCN WBZ	Chicago Staten Isld	. 389.4 770	1000	9:00- 2:00 Silent 8:00- 1:00 6:30-10:30	7:00- 8:00 5:00-10:15 7:15-10:30	Silent 7:00- 9:00 Silent 6:00-10:30	9:00- 1:00 7:00- 9:30 8:00- 2:00 6:15-11:15	7:00- 9:00   8:00- 1:00	8:00-10:00 8:00- 2:00 6:03-11:00	9:00-11:15 7:00- 8:00 8:00- 1:00 6:15-10:30
WCAU 277.6 1080 500 5 WCBD 344.6 870 5000 WCCO 405.2 740 5000 6	;30-9;30 ;:00-10;30 ;:30-10;00 ;:30-10;00 ;:15-11;00 ;:15-11;00 ;:00-12;00 ;:45-8:4	0 4:30-10:30 0 Silent 0 6:00-10:00	6:00-10:30 4:00-10:30 8:00-10:00 8:00-10:00 6:00-12:00	6:00-11:10 4:30-11:00 Silent 8:00-10:00	6:00-11:15 4:30-11:00 8:00-10:00 6:15-10:05	4:30-11:00 Silent 7:00-10:05	WCAE WCAU WCBD WCCO WCFL	Pittsburgh. Philadelphi Zion MinnSt. I Chicago	405.2 740	5000	7:00-11:30 6:30-11:00 Silent 6:15-12:00 7:00- 1:00	9:00-10:00 6:10-12:00 8:45- 9:45	7:00-11:00 Silent	1 9:00-10:00	5:30-12:00 Silent 9:00-11:00 7:00- 1:00	5:30-12:00 9:00-10:00 7:15-11:05 7:00- 1:00	5:30-12:00 Silent 8:00-11:05 7:00- 1:00
WCOA 249.9 1200 500 WCSH 361.2 830 500 WDAF 370.2 810 1000 6 WDBO 288.3 1040 500 8 WDOD 245.8 1220 500 9	Silent 7:25- 8:2 Silent 6:00- 7:3 5:00- 1:00 7:15- 8:1 8:00- 9:00 6:30- 7:3 5:00-10:00 7:30- 9:0 6:00-11:00 2:00- 9:3 6:30 0:30 6:30- 7:4	8:00-10:00 0 6:15- 9:00 5 6:00- 1:00 0 7:00- 8:00 0 7:00-11:00	Silent 6:00- 9:00 6:00- 1:00 7:00- 9:15 7:00-10:00	8:00- 9:45 6:00- 9:00 6:00- 1:00 6:55- 9:00 7:00-10 00	Silent 6:00- 9:00 6:00- 1:00 8:30- 9:30 Silent	8:00- 9:45 6:00-11:00 6:00- 1:00 6:55- 9:00 7:00-10:00	WCOA WCSH WDAF WDBO WDOD	Pensacola Portland Kansas Cit Orlando Chattanoog	. 249.9 1200 . 361.2 830 y 370.2 810 . 288.3 1040 a 245.8 1220	500 500 1000 500 500	Silent Silent 7:00- 2:00 9:00-10:00 10:00-11:00 6:00-12:00	8:25- 9:25 7:00- 8:30 8:15- 9:15 7:30- 8:30 8:30-10:00 3:00-10:30	7:15-10:00 7:00- 2:00 8:00- 9:00	7:00- 2:00 8:00-10:15	7:00- 2:00 7:55-10:00 8:00-11:00	7:00-10:00 7:00- 2:00 9:30-10:30 Silent 6:00-12:00	7:00- 2:00 7:55-10:00 8:00-11:00
WEAO 282.8 1060 750 WEBH 265.6 820 2000 7	100-11:00   2:00- 9:3   330- 9:30   6:30- 7:4   Silent   Silent   4:30- 9:0   Silent   Silent	Silent	6:00- 8:00 7:00-10:15	5:00-11:00 5:30- 9:30 7:00- 9:00 7:00- 1:00 6:00- 8:00	7:00- 9:00 7:00-11:00	Silent	IWEAO	Columbus.	282.811060	750	6:30-10:30 Silent 8:30- 1:00 Silent	7:30- 8:45 Silent 5:30-10:00 Silent	6:30-10:30 Silent Silent Silent	6:30-10:30 7:00- 9:00 8:00-11:15 7:00- 9:00	6:30-10:30 8:00-10:00 8:00- 2:00 7:00- 9:00	6:30-10:30 8:00-10:00 8:00-12:00 Silent	6:30-10:30 Silent 8:00-12:00 7:00- 9:00
WEMC 238   1260   1000   WENR   288.3   1040   500   6 WFAA   499.7   600   500   11	(3:00-10:10 Silent 11:00-12:0 5:00-12:00 9:30-12:0 1:30-12:30 6:00-12:0 1:30-10:45 4:30- 9:1	0 7:00-12:00 0 Silent 0 6:30- 9:30 5 6:15- 7:15	Silent 6:00-10:00 6:30-12:00 6:15-11:00	5:30-10:00 Silent 6:00-12:00 Silent 6:15- 7:15	Silent 6:00-10:00 6:30- 9:30 6:15-10:00	6:30- 9:30 6:15- 7:15	WFI	Chicago	238 1260 288.3 1040 499.7 600 405.2 740	1000 500 500	112:30- 1:30	12:00- 1:00 10:30- 1:00	8:00- 1:00 Silent 7:30-10:30 7:15- 8:15	Silent 7:00-11:00 7:30- 1:00	Silent 7:00- 1:00 Silent 7:15- 8:15	Silent 7:00-11:00 7:30-10:30	Silent 7:00- 1:00 7:30-10:30 7:15- 8:15
WFLA 365.6 820 500 WGBF 236.1 1270 500 WGBS 348.6 860 500 6 WGHP319 940 750	Silent 7:30-8:3 5:30-11:00 8:00-1:0 Silent 7:00-8:0 5:01-11:00 6:10-11:1	7:30- 9:30 0 7:00-12:30 0 Silent 0 5:00-10:00	7:45-10:00 6:05- 9:30	5:00-10:00	7:30- 9:30 Silent 5:50-10:30 5:00-11:00 6:01-11:00	7:45-10:00 Silent 5:00-11:00	WGN	New York Detroit Chicago	348.6 319 305.9 980	500 500 750 500	Silent 7:30-12:00 Silent 7:01-12:00	8:30- 1:30 9:00- 2:00 8:00- 9:00 7:10-12:10	8:00- 1:30 Silent 6:00-11:00 Silent	8:45-11:00 7:05-10:30 6:00-11:00 7:01-12:00	Silent Silent 6:00-11:00 7:01- 1:00	Silent 6:50-11:30 6:00-12:00 7:01-12:00	8:45-11:00 Silent 0 6:00-12:00 7:011:15
WGY   379.5   790   30000   6 WHAR   272.6   1100   1000   6 WHAS   461.3   650   500   7 WHAZ   379.5   790   500	Silent 6:45- 9:0 5:20-11:00 3:00- 9:0 5:30- 8:00 6:50- 7:0 7:30- 9:00 6:20- 8:1 Silent Silent	5:30- 7:30 00 6:30- 9:00 5 6:30-10:30 7:00-11:00	5:30-10:00 6:30- 8:00 6:30- 9:00 Silent	Silent	5:30-11:30 4:30- 9:00 7:30- 9:00 Silent	4:30- 6:00 7:00- 9:00 Silent	WHAR	Buffalo Schenectad AtlanticCit Louisville Troy	y 379.5 790	30000	Silent 7:20-12:00 7:30- 9:00 8:30-10:00 Silent 8:00- 9:00	7:50- 8:00 7:20- 9:15 Silent 8:00- 2:00	6:30- 8:30 7:30-10:00 7:30-11:30 8:00- 12:0 8:00- 9:00	6:30-11:00 7:30- 9:00 7:30-10:00 0 Silent 8:00-11:00	6:30-11:00 Silent 8:30-10:30 Silent 8:00-12:4	6:30-12:00 5:30-10:00 8:30-10:00 Silent 6:8:00-11:00	0 6:30-11:30 5:30- 7:00 8:00-10:00 Silent 0 8:00- 9:00
WHK 265.3 1130 500 5 WHN 394.5 760 500 WHO 535.4 560 5000	7:00- 8:00 7:00- 1:0 5:00-11:00 4:00- 8:3 Silent 5:30-11:0 Silent 4:00- 9:0 7:00-10:00 7:00-12:0	30 6:00- 9:30 00 5:30-11:00 00 6:30-12:00	6:00-11:00 6:30-10:30 7:00- 1:00	5:30-12:00 6:30-11:00 7:00-10:00	5:00-10:00 6:00-12:00 6:30-10:30 7:00- 1:00	5:00-10:00 5:30-12:00 6:30-10:00 7:00-10:00	WHK WHN WHO WHT	Louisville. Troy Kansas Cit Cleveland. New York. Des Moine Chicago.	. 410.4	,	6:00-12:00 Silent Silent 8:00-11:00	5:00- 9:30 6:30-12:00 5:00-10:00 8:00- 1:00	7:00-10:30 6:30-12:00 7:30- 1:00	7:00-12:00 7:30-11:30 8:00- 2:00	6:30- 1:00 7:30-12:00 8:00-11:00	7:00- 1:00 7:30-11:30 8:00- 2:00	0 6:30- 1:00 7:30-11:00
WIP   508.2   590   500   7 WJAR   483.6   620   500 WJAX   336.9   890   1000   7 WJAZ   263   1140   5000   7	5:00- 7:00 Silent 7:00-11:00 8:00-11:0 Silent 6:00- 9:1 7:00- 9:00 5:30-10:0 7:00-11:00 7:00- 9:0	15 6:45-10:06 00 7:00-11:00 Silent	7:00-11:00 6:30- 9:00	Silent 6:30-10:00 6:00-10:00 7:00-11:00	Silent 7:00-12:00	Silent 6:45-10:30 6:00-10:00 7:00-11:00	WIP WJAR WJAX WJAZ	Chicago Philadelph Providence Jacksonvil Chicago Moosehart Detroit New York. San Juan. Cincinnati	416.4 720 ia 508.2 590 483.6 620 le 336.9 890 263 1140 365.6 820	500 500 500 1000 5000 1000	Silent 8:00-10:00 8:00-12:00 11:15- 3:00	7:00-10:15 0 6:30-11:00 0 8:00-10:00 0 10:00-11:15	Silent 7:45-11:00 8:00-12:00 Silent Silent	8:00-12:00 7:30-10:00 8:00-10:00 8:00-12:00 7:00- 2:00	Silent 7:30-11:00 7:00-11:00 8:00-12:00 9:00- 1:00	8:00-12:00 7:45-11:00 Silent 8:00- 1:00 9:00- 1:00	Silent 7:45-11:30 • 7:00-11:00 8:00-12:00 9:00- 2:00
WJR   440.9   680   5000   5 WJZ   454.3   660   30000   6 WKAO   340.7   880   500	0:15- 2:00 5:00-11:00 6:00-10:30 Silent 5:00-11:00 9:00-10:0 5:00- 9: Silent 6:00-12:0	5:00-11:00 6:00-10:30 6:30- 8:00 5:00- 1:00	5:00-11:00 6:00-10:30 Silent 5:00-11:00	5:00-11:00 6:00-10:30 6:00- 8:00 5:00- 1:00	5:00-11:00 6:00-10:30 Silent 7:00- 9:00	5:00-11:00 6:00-10:30 6:00- 8:00 8:00-10:00	WJR WJZ WKAC	Detroit New York. San Juan. Cincinnati	440.9 680 454.2 660 340.7 880 333.1 900	5000 30000 500 500 1000	6:00-12:00 7:00-11:30 Silent 6:00-12:00	6:00-10:30	6:00-12:00 7:00-11:30 Silent 6:00- 2:00	0 6:00-12:00 7:00-11:30 Silent	0 6:00-12:00 0 7:00-11:30 7:00- 9:00 0 6:00- 1:00	6:00-12:00 7:00-11:30 7:00- 9:00 8:00-10:00 10:00- 1:00	7:00-11:30 7:00- 9:00 9:00-11:00
WL1B 305.9 980 5000 11 WL1T 405.2 740 500 0 WLS 344.6 870 5000 0 WLW 428.3 700 5000 0	7:00- 9:00 9:15-10: 1:00-12:15 5:00- 6: 6:30- 7:30 1:00- 3: 6:15- 1:00 7:00- 8: 6:00- 9:30 6:30- 9: 6:30-11:00 6:50- 7:	10 Silent 00 6:30-10:0 55 Silent	7:00-12:15 0 6:30- 7:30 7:00- 8:30	7:00- 8:00 6:15-10:30 6:00-12:00 6:00-11:30	7:00-12:15 0 6:30- 7:30 0 7:10- 7:55 0 6:00-12:05	5:1ent 7:00- 8:00 6:30-11:00 6:00-12:00 Silent 6:30-10:00	WLIB WLIT WLS WLW WLW	Nashville. Chicago. Philadelph Chicago. Cincinnati K Lockport. Q Chicago. B Chicago. Memphis. A New York.	305.9 986 ia 405.2 746 . 344.6 876 . 428.3 766 . 545.1 556	5000 5000 5000 5000 5000 750	12:00- 1:15 7:30- 8:30 7:15-12:00 7:00-10:00	6 6:00- 7:10 2:00- 4:00 8:00- 9:55 7:30-10:30	Silent 7:30-11:0 5 Silent 0 7:00-11:2 0 7:30-11:0	8:00- 1:1. 7:30- 8:30 8:00- 9:30 6:00-11:00 7:30- 1:00	5 8:00- 9:00 0 7:15-11:30 0 7:00- 1:00 0 7:00-12:30 0 7:15-10:30	8:00- 1:1 7:30- 8:3 8:10- 8:5 7:00- 1:0	5 8:00- 9:00 0 7:30-12:00 5 7:00- 1:00 5 Silent 0 7:30-11:00
WMAQ 447.5 670 1000 C WMBB 252 1190 500 7 WMC 516.9 580 500 7 WMCA 370.2 810 500 1	6:00- 2:00 7:00-11:00 7:30- 8:30 5:00-11:15 7:00-12:	5:30-12:3	0 7:30-12:00 5:00-11:00	8:00- 9:00 5:00-12:30				Q Chicago B Chicago Memphis. A New York.			6:00-12:1:	8:00-11:00 4:00-12:00 7:20- 9:13 6:00- 1:00	0:30- 1:3	7:30- 3:0 8:00-12:0 8:30- 1:0 6:00-12:0 7:30-11:0	0 9:00-10:0 6:00- 1:3 7:30-11:0	8:00-12:0 8:45-11:0 6:30- 1:0	0 8:00-12:00 0 8:30- 1:00 0 6:30-12:00
WNYC 535.4 560 500 WOAI 302.8 990 5000 WOAN 285.5 1050 5000 WOC 374.5 800 5000	5:00-10:00 5:00- 9:35 Silent Silent 7:00- 8:00 Silent 7:00- 8:00 Silent 7:00- 8:00	35 5:00- 9:3 45 Silent 00 9:00- 1:3 45 7:30- 9:3	5 5:00- 9:35 6:15- 9:30 0 9:00-10:00 0 8:00-10:00	5:00- 9:3: 8:30- 9:30 9:00-10:00 7:30-10:00	5 5:00 9:3	5:00- 9:30 8:30- 9:30 9:00-10:00 7:00-10:00	WNYO WOAI WOAI WOC	New York.	'g 285.5 105 374.8 80 265.3 113	500 5000 5000 5000 5000 5000	6:00-10:3 Silent Silent 8:00- 9:0 Silent	5 6:00-10:3 8:45- 9:4 10:00-11:0 7:30- 9:4 Silent	5 6:00-10:3 Silent 0 10:00- 2:3 8:30-10:3 8:45- 9:4	5 6:00-10:3 7:15-10:3 0 10:00-11:0 9:00-11:0 Silent	5 6:00-10:3 0 9:30-10:3 0 10:00-11:0 0 8:30-11:0 Silent	5 6:00-10:3 0 9:30-10:3 0 10:00-11:0 0 8:00-10:0 8:30- 9:3	5 6:00-10:35 0 9:30-10:30 0 10:00-11:00 0 8:00-11:00 0 Silent
WOKT 209.7 1430 500 500 WOQ 336.9 890 500	Silent 9:00-12:30 6:00-12:30 6:30-7:30 8:00-11:00 7:00-7:	30 Silent 15 6:00-10:0 30 6:30- 9:5 45 Silent	9:00-12:30 6:00-11:00 6:30- 7:30 8:00- 9:00	9:00-12:00 6:00-11:00 6:30- 9:5 Silent	0 9:00-12:30 0 6:00-11:00 5 6:30- 7:30 7:00- 9:00	0 9:00-12:30 0 6:00-11:00 0 6:30- 9:5 0 Silent	WOK WOK WOO WOQ	Philadelph Kansas Ci	ia 508.2 59 ty 336.9 89	0 500 0 500	7:00-1:3 7:00-12:3 7:30- 8:3 9:00-12:0	0 10:00- 1:3 0 11:15-12:1 7:30- 9:3 9:00-10:1 	7:00-11:0 7:30-10:5 Silent 7:00-12:0	7:00-1:3 7:00-12:0 7:30-8:3 9:00-10:0 7:30-12:3	7:00-12:0 7:30-10:5 Silent 7:00-12:0	7:00-12:0 7:30- 8:3 8:00-10:0 7:00-12:0	0 7:30-10:55 0 Silent
WORD 275 1090 5000 WOS 394.5 760 500 WOW 508.2 590 1000 WPG 272.6 1100 5000	6:00-11:00 7:00-10:00 Silent 6:00-11:00 6:00-11:30 6:00-12:00 5:15-10:00	00 Silent 7:00-11:0 00 5:45-10:0 00 6:00-11:0	7:00-10:00 Silent 0 6:00-11:00	7:00-10:0 7:00- 9:0 Silent 6:00-11:0	0 7:00-10:0 0 Silent 5:45-11:0 0 6:00-11:0	0 Silent 0 6:00- 9:0	WQA 0 WPG	Newark Batavia Jefi'n City Omaha M AtlanticCi Miami	tv 322.4 93	0 750	8:00-11:0 Silent 7:00-12:0 7:00- 8:3	0 8:00-11:0 Silent 0 10:00-11:0 7:30- 8:3 0 6:15-11:0	0 Silent 8:00-12:0 0 6:45-11:0 0 7:00-10:0 0 7:00-12:0	8:00-11:0 Silent 7:00-12:0 7:00-10:0 7:00-12:3	8:00-11:0 8:00-10:0 8:00-10:0 Silent 7:00-10:0 7:00-12:0	0 8:00-11:0 0 Silent 6:45-12:0 7:00-10:0 7:00-12:0	0 8:00-11:00 8:00-10:00 0 6:00-12:00 0 7:00-10:00 0 Silent
WRC 468.5 640 500 WRR 352.7 850 500 WRVA 254.1 1180 1000 WSAI 361.2 830 5000	6:00- 7:30	30 6:00-12:0	N 6-00- 9:00	5:00-11:0	0 5:00-11:0 6:00-12:0	0 5:00-10:3 0 8:00-10:0 0 7:30-12:0 0 7:00- 8:0	0 WRC 0 WRR 0 WRV. 0 WSAI	Washingt Dollas A Richmond Cincinnat Atlanta	272.6 110 on 468.5 64 352.7 85 1. 254.1 118 i. 361.2 83 475.9 63	0 1000 0 5000	7:00-11:0 7:00-10:0 Silent 8:00-10:1	0 4:00-10:3 0 9:00-11:3 Silent 5 7:45- 9:4	0 6:00-12:0 0 7:00-12:0 8:30-12:0 5 7:30-12:0	00 7:00-10:0 00 Silent 00 6:45-10:0		7:00- 1:0 0 8:30- 1:0 0 6:15-10:0	0 9:00-11:00 0 8:30- 1:00 0 7:00- 9:00
WSBC 232.41290 500 WSKC 491.5 610 500 1 WSM 340.7 880 5000 WSMB 322.4 930 500	6:30- 1:00 5:00- 1: 0:00- 1:00 Silent 8:00-11:00 6:20- 8:20:010:30	Silent 8:00-10:0 45 6:30-11:0	6:30- 1:00 Silent 7:00-11:00 Silent	6:30- 1:0 8:00-10:0 7:00-11:0 8:30-10:3	00 6:30~ 1:0 00 Silent 00 7:00-11:0 8:30-10:3	0 Silent	0 WSM WSM WSM WSO	C   Bay City   Nashville .   B   New Orlea   Milwauke	o 270.1 111	0 5000 0 5000 0 500	9:00-12:0 9:30-12:0 9:30-11:3 9:00-10:0	0 Silent 0 7:20- 9:4 0 Silent 0 8:30- 9:3	9:00-11:0 5 7:30-12:0 9:30-11:3 60 7:00-10:0	00 8:00-12:0 30 Silent 00 7:00-10:0	9:00-11:0 00 8:00-12:0 9:30-11:3 00 7:00-10:0	0 Silent 0 8:00-12:0 0 9:30-11:0 0 7:00-11:0	Silent 9:00-10:00 Silent 7:00-11:00
WSUI 265.3 1130 500 WTAG 516.9 580 500 WTAM 399.8 750 3500	6:30-10:30 3:00- 9 5:15-11:00 5:00-10	30 6:00- 9:0 30 7:30-12:1 45 6:30-11:0 :15 5:00-11:3 5:30-10:0	30 5:00-11:00	7:30- 8:3 0 6:30-11:0 0 5:15-10:0	80 Silent 00 6:30-11:0 00 5:00-11:0 00 5:30-10:0	Silent 0 6:30-10:3 0 5:30-11:0	WSU   WTA  0   WTA  0   WTI	I lowa City Worcester M Cleveland Hartford	265.3 113 516.9 58 399.8 75 535.4 56	500 500 50 3500 50 500	7:30-11:3 6:15-12:0 6:30-11:0	00 10 30-11 3 4:00-10:4 00 6:00-11:1 00 4:30- 7:3 7:20-10:1	5 7:30-12:0 5 6:00-12:3	00 7:30-12:0 30 6:00-12:0	00 6:00-12:0	00 7:30-12:0 00 6:00-12:0 00 6:30-11:0	Silent 7:30-11:30 00 6:00-12:00 00 6:30-11:00 00 6:00-11:30

# STATE AND CITY INDEX

Alabama	Illimate (Country 1)		
City Call Meters Kc. Watts Auburn. WAPI 325.9 920 1,000 — — Birmingham. WBRC 243.8 1,230 250 — — WKBC 218.8 1,370 10 — — Cadsen WJBY 234.2 1,280 50 — — Montgomery WIBZ 230.6 1,300 15 —	Illinois (Continued)   City   Call   Meters   Kc. Watts	Minnesota (Continued) City Call Meters Kc. Watts Minneapolis. KFDZ 215.7 1,390 10 — — — KGEQ 202.6 1,480 50 — — — WAMD 225.4 1,330 500 — — — WCCO 405.2 740 5,000 — — —	North Dakota   Call Meters Kc Watts
Arizona FlagstaffKFXY 205.4 1,460 25 PhoenixKFAD 272.6 1,100 500 KFAD 243.8 1,230 125 PrescottKPJM 214.2 1,400 15	East Wenona WLBI 238 1,260 250	WDGY 260.7 1,150 500 — — — WHDI 245.8 1,220 500 — — — WLB 245.8 1,220 500 — — — WRHM 260.7 1,150 1,000 — — — WRHM 236.1 1,270 500 — — — WCAL 236.1 1,270 500 — — — WCAL 236.1 1,270 500 — — — WCAL 252 1,190 10 — — — St. Cloud WFAM 252 1,190 10 — — —	FargoWDAY 361.2 830 250
Arkansas  Blytheville .KLCN 285.5 1,050 50 Fayetteville .KUOA 296.3 1,010 500 Hot Springs .KTHS 384.4 780 1,000	WKBS 217.3 1,380 100 — — — — — — — — — — — — — — — — —	St. PaulKFOY 285.5. 1,050 250	Bellefontaine WHBD 222.1 1.350 100 — — — — — — — — — — — — — — — — —
California       Avalon     KFW0     299.8     1,000     250     —       Berkeley     KRE     256.3     1,170     100     —       Burbank     KELW     228.9     1,310     250     —       El Centro     KGEN     225.4     1,330     15     —       Fresno     KMJ     365.6     820     50     —     —       Holy City     KFQU     248.9     1,200     100     —     —	WKBB 215.7 1,390 150 — — — — — — — — — — — — — — — — — — —	Missouri C. Girardeau KFVS 223.7 1,340. 50 — — — — — — — — — — — — — — — — — —	WLW 428.3 700 5,000 — — — WSAI 361.2 830 5,000 — — — WEAR 399.8 750 1,000 — — — WHK 265.3 1,130 1,000 — — — WJAY 227.1 1,320 500 — — — WTAM 399.8 750 3,500 — — — Columbus WAIU 282.8 1,160 5,000 — — —
Hollywood KFQZ 232.4 1,290 100	Rock Island WHBF 222.1 1.350 100 —————————————————————————————————	Jefferson City.WOS 468.5 640 550 — — — — — — — — — — — — — — — — —	WCAH 535.4 550 250 — — — — — — — — — — — — — — — — — — —
KFPR 232.4 1,290 250	Indiana  AndersonWHBU 220.4 1,360 15 BrookvilleWKBV 217.3 1,380 100 Crown Point WLBT 322.4 930 50 CulverWCMA 258.5 1,160 250	WOQ 336.9   890   250	Hamilton   WRK   205.4   1,460   100
KNX 336.9 890 500 KPLA 252 1,190 500 KRLO 215.7 1,390 250 KRLD 215.7 1,390 250 LOWER Lake KGEU 227.1 1,320 50 COakland KFUS 256.3 1,170 50	Fort Wayne.WCWK 214.2 1,400 250 — ———————————————————————————————	KFU0 545.1 550 500 — — — KFVE 234.2 1,280 1,000 — — — KFWF 214.2 1,400 250 — — — KMOX 299.8 1,000 5,000 — — — KSD 545.1 550 500 — — — WIL 258.5 1,160 250 — — — WIL 258.5 1,160 250 — — —	Youngstown WKBN 214.2 1,400 50 — — — Oklahoma  Alva KGFF 2054 1,460 25
KFWM 236.1 1,270 500 — — — — — — — — — — — — — — — — —	LaporteWRAF 208.2 1,440 100	WSBF 440.9 680 250 — — — Montana  HayreKFBB 275.1 1,090 50 — — —	Clickasha . KOCW 252 1,190 250 — Norman WNAD 239,9 1,250 500 — Okla. City KFJF 272.6 1,100 750 — KFJK 223.7 1,340 15 — KGCB 215.7 1,390 50 — KGFG 215.7 1,390 50 — C
PasadenaKPPC 228.9 1,310 50	Iowa	Nissonia KOM 374.8 800 500	WKY 288.3 1,040 150 — — — — — — — — — — — — — — — — — — —
KFWI 267.7 1,120 500 — — — — KGTT 206.8 1,450 50 — — — — KJBS 220.4 1,360 50 — — — — KPO 422.3 710 1,000 — — — KYA 309.1 970 500 — — — — San Jose KQW 296.9 1,010 500 — — — —	ClarindaKSO 227. 850 250	Grand Island KGEO 205.4 1,460 100 — — — Humboldt .KGDW 206.8 1,450 100 — — — Lincoln .KFAB 309.1 970 2,000 — — — KFOR 217.3 1,380 100 — — — Norfolk WJAG 285.5 1,050 250 — — — Omaha KFOX 285.5 1,160 100 — — —	MedfordKMED 249.9 1,200 50
Santa AnaKWTC	KWLC 247.8 1,210 50	KOCH   258.5   1,160   250	KGW 491.5 610 1,000 — — — — — — — — — — — — — — — — — —
Yuba CityKGFM 211.1 1,420. 15 — — — — — — — — — — — — — — — — — —	MuscatineKPNP 211.1 1,420 100	New Hampshire  LaconiaWKAV 223.7 1,340 50 — — — Manchester. WCOM 238 1,260 100 — — —	Pennsylvania AllentownWCBA 222.1 1,350 100
KGEY 201.2 1.490 15	Independence KFVG 205.4 1,330 50	New Jersey Asb'ry Pk.WDWM 361.2 820 500 — 41'unic City.WHAR 722.6 1,100 1,000 — 500 500 600 MPG 272.6 1,100 5,000 — 500 5000 MPG 454.3 660 30,000 — 500 5000 MPG 454.3	Harrisburg   WBAK   299.9   1,000   500
Greeley     KFKA     399.8     750     200     —       Gumlson     KFHA     254.1     1,180     50     —       Pueblo     KGDP     223.7     1,340     10     —     —       Trinidad     KFBS     238     1,260     15     —     —       KGFL     222.1     1,350     50     —     —       Yuma     KGEK     263     1,140     10     —     —	- ManhattanKSAC 333.1 900 500	Diffside	WKJC 252 1,190 50 — — — — — — — — — — — — — — — — — —
Connecticut  Danbury WCWS 214.2 1.400 100	WHAS 461-3 650 500 — — Now Orleans WABZ 267.7 1,120 30 — — Now Orleans WABZ 247.8 1,210 50 — — — Now Orleans WABZ 247.8 1,210 50 — — —	WKBO 218.8 1,370 500	hiladelphia WABQ 250.7 1,150 500
Delaware   Wilmington   WDEL   265.3   1,130   100	WJBO 263 1,140 100 — — F WJBW 238 1,260 30 — — F WKBT 252 1,190 50 — — T WSMB 322,4 930 500 — — T WWL 275.1 1,090 100 — — — T Shreveport .KFDX 236.1 1,270 250 — —	aterson WODA 293.9 1.020 1.000	WIP 508.2 590 500 — — — WLIT 405.2 740 500 — — — WALT 405.2 740 500 — — — WNAT 288.3 1,040 100 — — — WOO 508.2 590 500 — — — WPSW 202.6 1,440 50 — — — WRAX 212.6 1,440 250 — — — ittsburgh .KDKA 315.6 950 50,000 — — —
WRHF 319 940 150 — — — Florida  Gainesville WHBN 296.9 1,010 5,000 — — — — — — — — — — — — — — — — — —	KRAC 220.4 1,360 50	New York	KQV 270.1 1,110 500 — — — — WCAE 516.9 580 500 — — — — WJAS 270.1 1,110 500 — — — — WMBU 217.3 1,380 50 — — — — eadingWRAW 238 1,260 100 — — — — crantonWGBI 230.6 1,300 250 — — — —
Miami Beach WIOD     247.8     1,210     1,000     —       Miami Beach WIOD     247.8     1,210     1,000     —     —       WMBF     384.4     780     500     —     —       Crlando     WDBO     288.3     1,040     500     —     —       Pensacola     WCCA     249.9     1,200     500     —     —       Tampa     WDAE     267.7     1,120     500     —     —	Portland WCSH 428.3 700 500 B  Maryland  Baltimore WBAL 285.5 1,050 5,000	wars 227.1 1,320 500 — — S WBBC 227.1 1,320 500 — — V WBKN 267.7 1,120 100 — V WBRS 211.1 1,420 100 — — V WCDA 211.1 1,420 250 — W WLTH 256.3 1,170 250 — W	WQAN 260.6 1,300 100 — — — — — — — — — — — — — — — — —
WJBB 344.6 870 250 — — — — — — — — — — — — — — — — — — —	WFBR 243.8 1,230 100	WGR 302.8 990 750 — O O O O O O O O O O O O O O O O O O	Rhode Island  ranstonWDWF 374.8 800 500
Macon WMAZ 270.1 1.110 500	WBZA 333.1 900 500 — — C WEEI 447.5 670 500 — — C WMES 211.1 1,420 100 — E WNAC 352.7 850 500 — — F WSSH 238.3 1,040 100 — F Cambridge WLRM 230.5 1 300 50 — F	anton	WJAR 483.6 620 500 — — — WLSI 374.8 800 500 — — — WLSI 199.9 1,500 250 — — — — South Carolina 191.500 WBBY 499.7 600 75 — — —
PocatelloKSEI 333.1 900 250	Chelsea WRSC 211.1 1,420	maica WMRJ 206.8 1,450 10	South Dakota  rookingsKFDY 394.5 760 500
WNBL 199.9 1,500 15 — — — — — — — — — — — — — — — — — —	SpringfieldWBZ 333.1 900 15,000	WEAF 491.5 610 5,000 R WEBJ 256.3 1,170 500 R WGBS 348.6 860 500 Si WGMU 201.2 1,490 100 V WHAP 236.1 1,270 1,000 Y WHN 394.5 760 500 Y	erreKGFX 254.1 1.180 200
WBBZ 204 1,470 100 — — — — — — — — — — — — — — — — —	Michigan  Battle Creek WKBP 212.6 1,410 50 Bay City WSKC 374.8 800 250 Berrien Spgs.WEMC 483 620 1,000 Detroit WAFD 243.8 1,230 100 WBMH 211.1 1,420 100	WLWL 370.2 810 2,000 KI WMCA 370.2 810 500 WMSG 236.1 1,270 500 LE WNYC 526 570 500 LE	November   National State   National Sta
WFKB 223.7 1,340 500 — — — — — — — — — — — — — — — — —	WCX 440.9 680 5,000	WRMU 201.2 1,490 100	WHBD 232.4 1,290 100 — — — — — — — — — — — — — — — — —
WIBJ 201.2 1,490 100	Grand Rapids WASH 256.3 1,170 250	chesterWHAM 277.6 1,080 500	WLAC 225.4 1,330 1,000 — — WSM 340.7 880 5,000 — — — wingfield .WSIX 212.6 1,410 150 — — — wingfield .WSIX 212.6 1,410 150 — — — Texas
WJBT 389.4 770 500 — — — WKBI 322.4 930 50 — — — — WLBN 204 1,470 50 — — — — WLS 344.6 870 5,000 — — — — WHJS 483.6 620 100 — — — — WMAQ 447.5 670 1,000 — — — — WMBB 252 1,190 5,000 — — —	Monroe WKBL 205.4   1,460	WSYR 225.4 1,330 500 — — Au oyWHAZ 379.5 790 500 — — Br codWIBX 238 1,260 150 — — Br	narilio KCRS 243.8 1,230 150
	Vacilanti WIDV 2004 1 200	North Carolina	Has
11772 221.1 1,320 500	Ra	leigh WRCO 217.3 1,380 250 — — —	WBAP 499.7 600 1,500

# State and City Index Continued

Stat	e and City Ii	ndex Contin	ued
Commonstrate	Washington (Continued)   City   Call   Meters   K.c.   Watts     Seattlé (Contd)   KJR   348.6   860   2,500       KKP   285.3   1,153   15       KOMO   305.9   980   1,000       KPCB   230.6   1,300   50       KPCB   230.6   1,300   50       KRSC   211.1   1,420   50       KVOS   209.7   1,430   50       KTV   394.5   760   1,000       KTW   394.5   760   1,000       KTW   394.5   760   1,000       KTW   394.5   760   1,000       KFPY   245.8   1,220   250       KFPY   245.8   1,220   250       KFPY   245.8   1,220   250       KFPY   245.8   1,220   250       KGA   260.7   1,150   2,000       Tacoma   KVI   234.2   1,280   50       Walla Walla KOWW   254.1   1,180   259       Walla Walla KOWW   259.9   1,000   500       Charleston   WOBU   267.7   1,120   50       Huntington   WSAZ   241.8   1,240   100       Wheeling   WWVA   389.4   770   100       Wisconsin   Beloit   WEBW   258.5   1,160   500       Beloit   WEBW   258.5   1,160   500       Camp   Lake   WCLO   227.1   1,320   100       Eau   Claire   WTAQ   254.1   1,180   500       Camp   Lake   WGLO   227.1   1,320   100       Eau   Claire   WTAQ   254.1   1,180   500       Camp   Lake   WGLO   227.1   1,320   100       Senosha   WKBH   220.4   1,360   500       Madison   WHA   319   940   750       Manitowoc   WOMB   218.8   1,370   500       Milwauke   WGWB   218.8   1,370   500       Milwauke   WGWB   218.8   1,370   500       Milwauke   WGWB   218.8   1,370   500       WYMD   270.1   1,110   500       Omro   WJBA   227.1   1,350   50       Omro   WJBA   270.1   1,110   500       Omro   WJBA   270.1	City	City Call Meters Kc. Watts Moose Jaw. CJRM 296.9 1,010 50 — 9
Vancouver, B. C. 410.7m-730kc. 10 watts. A. Holstead & Wim, Hanlon.  CKWWX  Vancouver, B. C. 410.7m-730kc. 100 watts. Western Electric.  CKY  Winnipeg, Man., Can. 384.4m-780kc. 500 watts. Manitoba Tel System. Amouncer, F. E. Rutland. Slogan, Manitoba Sovern Station, Daily ex Sun. 10:50-11 am, 12:135 pm, 3-4:30, 8:30, 9. Wed, Sat, 9-11 pm, CNRW. Central.  CNRA  Moneton, N. B., Can. 322.4m-930kc. 500 watts.	Havana, Cuba. 284m-1053kc. 20 watts. Manuel Y. Guillermo Salas Music Store, Announcer, Roger Morales. Daily 3-4 pm, music. One day each week. 8-11 pm. Eastern.  2MK  Havana, Cuba. 85m-349kc. 100 watts. R. V. Waters.  2MU  Havana, Cuba. 265m-1330kc. 10 watts, Ulpiano Muniz.  2OK  Havana, Cuba. 360m-833kc. 100 watts. Mario Garcia Velez.	C. de Avila, Cuba. 193m-1550kc. Armando Benguria. 7LO Camaguey, Cuba. 230m-1300kc. 20 watts. Miguel Lopez Martinez. 7JQ Florida, Cuba. 42m-7130kc. Leonard B. Fox. 7KP Camaguey, Cuba. 43m-6970kc. 50 watts. Melchor Aguero. 7MN Camaguey, Cuba. 273m-1100kc. 100 watts. Melchor Aguero. 7NM	Oaxaca, Oax., Mex. 270m-1110kc. Federic rilla. "The Voice from South of Mexico." Thurs, 7-8 pm. Sun, 8:30-10 pm. Mexican.  CYG  Mexico City, Mex. 300m-1000kc. 1000 Secretara de Guerra y Marina.  CYH  Monterey, Mexico. 311m-964kc. 1000 watts, nava & Cia. Slogan, "The Industrial Center Mexican Republic." Daily ex Sun, 7:55-8-1 Wed, Fri, 8:30-10 pm. Sun, 8-10 pm. Moun  CYJ  Mexico City, Mex. 410m-730kc. 1000 watts, eral Electric Co. Daily ex Sun, 8 pm. Mou  CYL
Canadian National Railways. Announcer, W. V. George. Slogan, "Voice of the Marritimes." Daily ex Sun, 2-3:30 pm. Tues, 7:30 pm. Fri, 9 pm. Atlantic. Started Nov. 8, 1924.  CNRC  Calgary, Alta, Can. 434.5m-690kc. 500 watts. Canadian National Railways. Mon. 9:30 pm. Thurs, 7 pm, bedtine story; 9-11. Mountain.  CNRE  Edmonton, Alta, Can. 516.9m-580kc. 500 watts. Canadian National Railways. Wed, 11-12:30 am. Sat, 10-12 mid. Mountain.  CNRM  Montreal, Que., Can. 410.7m-730kc. 1,000-1,650 watts. Canadian National Railways. Announcer, J. S. McArthur. Thurs, 8:45 pm. Eastern daylight.	Havana, Cuba. 257m-1170kc. 100 watts. Oscar Collado.  2RK  Havana, Cuba. 315m-950kc. 100 watts. Raoul Karman. Casa De La Porte.  2TW  Havana, Cuba. 270m-1110kc. 20 watts. Roberto E. Ramirez.  2UF  Havana, Cuba. 355m-844kc. 20 watts. Roberto E. Ramirez.  2XA  Havana, Cuba. 230m-1300kc. Lecuona Music Co.	Nuevitas, Cuba. 264m-1136kc. 20 watts. Domingo Caymares.  7SR  Camaguey, Cuba. 350m-860kc. 500 watts. Salvador C. Rionda. Slogan, "Cuba, the Land of Sunshine, Sugar and Tobacco," Mon. Tues. Thurs, 8:30 pm. Eastern.  8BY  Santiago, Cuba. 250m-1200kc. 100 watts. Alberto Ravelo.  Mexico  CYA  Mexico City, Mex. 265m-1130kc. 500 watts. Mon. Fri. 6:45-8 pm. Sun, 4-6 pm. Partido Liberal Avanzado. Mexican.	Mazatlan, Sin., Mex. Rosseter Y Cia.  CYX  Mexico City, Mex. 333m-900kc, 500 watts celsior & Revista de Revistas. Announcer, Hermandez dez Dominguez. Slogan, "Land Aztecs." Mon, 8-9:30 pm. Mexican.  CYZ  Mexico City, Mex. 400m-750kc, Liga (Mexicana de Radio. Mexican.
CNRO Ottawa, Can. 434.5m-690kc. 500 watts, Canadian National Railways, Announcer, A. W. Ryan. Mon, 8-8:45 pm. 11-12 mid. Thurs, 7:30-11 pm. Eastern. On air Feb. 27, 1924. CNRO Quebec City, Can. 340.7m-880kc. C. N. R. CNRR Regina, Sask., Can. 312.3m-960kc. 500 watts. Canadian National Railways, Tues, 8-10 pm. Mountain. CNRS	2XX  Havana, Cuba. 225m-1333kc. 5 watts. Antonio A. Ginard.  5DW  Matanzas, Cuba. 270m-1110kc. 100 watts. Ramon Sarria Calderon.  5EV  Colon, Cuba. 360m-833kc. 5 watts. Leopoldo V. Fizueroa. Sun, 9-11 pm. Eastern.  6BY  Cienfuegos, Cuba. 260m-1153kc. 200 watts. Jose Ganduxe.  6EV  Caibarien, Cuba. 250m-1200kc. 50 watts. Maria Josefa Alvarez. Daily, 10:30 pm.	Mexico City, Mex. 270m-1110kc. 500 watts. El Buen, Tono. Tues, Thurs, Sat, 7:30-9 pm, concert. Mexican.  A Radiant Hearth  CHICAGO. — Many odd designs have been received to contain the parlor Radio receiver, but the most unique is a fireplace, for which a patent has just been granted a Chicago inventor.	Mexico City, Mex. 70-500-1070 meters. A Dept., War Miuistry. Announcer, Ricardo S. Daily, 12:30-1 pm, time, weather, news; 6:3 time, markets, music. Mexican.  Yale GROUND HC  The DOUBLES POWER AN Perfect DOUBLES POWER AN DISTANCE.  Marvelous newly-invented ground gives 100% improved reception. Doubles power and distance. Stops leakage, Reduces static. Stop jangling even in midsummer. Amazing results users say. Satisfaction guaranteed.
Saskatoon, Sask., Can. 329,5m-910kc. 500 watts. Canadian Mational Railways. Daily, 2:30-3:30 pm. Mountain.  CNRT  Toronto, Ont., Can. 356,9m-840kc. 500 watts. Canadian National Railways. Announcer, E. W. Jackson. Fri, 9-11 pm. Eastern. First broadcast May 16, 1924.  CNRV  Vancouver, Can. 291.1m-1030kc. 500 watts. Canadian National Railways. Announcer, G. A. Wright.  CNRW  Winnipeg, Man., Can. 384,4m-780kc. 500 watts. Canadian National Railways. Announcer, R. 11. Roberts. Mon., Ties, 6:30 pm. Wed, 10 pm. Thurs, Fri, 6:30 pm. Central.	6HS S. La Grande, Cuba. 200m-1500kc. 10 watts. Santiago Ventura. 6KC Cieníuegos, Cuba. 240m-1250kc. 10 watts. Carlos Hernandez. 6KP Sancti Spiritus, Cuba. 195m-1540kc. 20 watts. Antonio Galguera. 6KW Tuinucu, Cuba. 340m-880kc. 100 watts. Frank H. Jones. Slogan, "If You Hear the Koo of the Cuckoo You Are in Tune With Tuinucu." Daily 11:30-12:15 am. Eastern.	My big 1928 Radio Catalog, Gall Book and Trouble Finder. 132 pages about Radio, Chck full of newest chroubles in the cults-kits, transmitter parts, short wave outfits, eliminators and speakers. Thousands of hargains at lowest wholesale prices. Aregular Radio Encyclopedia—Free. Write today.  American Auto & Radio Mig. Co. Barry ScuawarzeEnce, Press. Bept. 115. American Radio Bidg., Kansas City, Mo.	distance reception. Draws and holds moistur- indefinitely. Highly sensitive to radio energy SEND NO MONEY—To introduce, we offer to those who act at once, regular \$5.00 size fo only \$2.95. Send name today and pay \$2.9 plus postage on delivery. Or send only \$2.9 with order and save postage. FREE—Full description of Ground Hog on Request. Send today. DEALERS, W r i te for Attractive Proposition and Prices Yale Specialty Supply Co. 3838 Main St., Kansas City, Mo
Cuba  PWX  Havana, Cuba. 400m-750kc. 500 watts. Cuban Telephone Co. International Tel. and Teleg. Corp. Mon. Tues, Sat, 8:30-11 pm. Wed, Sun, 8-10 pm, music. Eastern.  2CT  Havana, Cuba. 350m-855kc. 50 watts. Casimiro Pujadas.  2FG  Hershey, Cuba. 200m-999.4kc, 20 watts. Alberto A. Ferrera,	Caibarien, Cuba. 325m-920kc. 250 watts. Manuel A. Alvarez.  GRG Santa Clara, Cuba. 200m-1500kc. 20 watts. Rafael Garcia Perez.  6XJ Tuinucu, Cuba. 278m-1080kc. 100 watts. Frank H. Jones.  6YR Camaguey, Cuba. 200m-1500kc. 20 watts. Diege lborra.  7AZ	THE New  47th to 48th STREET  One of the finest Hotel	Flanders  EAST OF BROADWAY  els in TIMES SQUARE
Havana, Cuba. 192m-1540kc. 5 watts. Francisco Williams.  2HP Havana, Cuba. 205m-1460kc. 200 watts. Cristina W. Vda. Crucet.  2JF Marianao, Cuba. 245m-1220kc. 5 watts. Jose L. Ferriol.  2JT Havana, Cuba. 46m-650kc. 5 watts. Jose A. Terry,  2JL Havana, Cuba. 294m-1020kc. 5 watts. Jose Leiro.	Camaguey, Cuba. 225m-1333kc. 10 watts. Pedro Nogueras.  7BY Camaguey, Cuba. 235m-1277kc. 20 watts. Eduardo V. Figueroa.  7EV Camaguey, Cuba. 190m-1580kc. 5 watts. Gonzalo Toraya.  7FU C. Avila, Cuba. 200m-999.4kc. 5 watts. Feliciano Isaac.  7GT Camaguay, Cuba. 195m-1540kc. Armando Vaquer.	Double Rooms with Single Rooms with I Double Rooms  Special Weekl F. W. BIZEL, Reside	
Havana, Cuba. 305m-980kc. 50 watts. Modesto Alvarez.  2MF  Madruga, Cuba. 100m-299kc. Moises Feinandez.	7HS C. de Avila, Cuba. 192m-1560kc. 10 watts. Porfirio de la Cruz.		

., Mex. 270m-1110kc, Federico Zor-Voice from South of Mexico." Tues, m. Sun, 8:30-10 pm. Mexican.

y, Mex. 300m-1000kc. 1000 watts. Guerra y Marina.

exico. 311m-964kc. 1000 watts. Tar-Slogan, "The Industrial Center of the sublic." Daily ex Sun, 7:55-8-10 pm. 30-10 pm. Sun, 8-10 pm. Mountain.

Mex. 410m-730kc. 1000 watts. Gen-Co. Daily ex Sun, 8 pm. Mountain.

, Mex. 480m-625ke, 500 watts. La dio, Announcer, George Marron. Slo-Land of Eternal Summer." Daily ex pm, weather, financial reports, music. 8-9:30 pm, Sun, 8-9:30 pm, church.

Mex. 333m-900kc, 500 watts. Exvista de Revistas. Amouncer, Rafael ez Dominguez. Singan, "Land of the on, 8-9:30 pm. Mexican.

, Mex. 400m-750kc. Liga Central Radio. Mexican.

Mex. 70-500-1070 meters. Aviation Ministry. Announcer, Ricardo S. Bravo. 1 pm, time, weather, news; 6:30-7:30, ts, music. Mexican.

# GROUND HOG UBLES POWER AND DISTANCE Tewly-invented ground gives 100% ception. Doubles power and dissis leakage. Reduces static. Stops ni midsummer. Amazing results, Satisfaction guaranteed. solutely essential to clear, powerful eption. Draws and holds moisture Highly sensitive to radio energy. MONEY—To introduce, we offer to act at once, regular \$5.00 size for Send name today and pay \$2.95 e on delivery. Or send only \$2.95 and save postage.

GROUND HOG



# Official Wave Lengths Table

			·			· · ·	•																
Wave length	Frequency (kilocycles)	Power (watts) call signal	Location	Wave length	Frequency (kilocycles)	Power (watts)	ull Location	u Arrel Arrel	Frequency	Power	(Stanta Cal sign:	I Loc	ation	Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location	Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location
199.9	1,500	15 KCFN 50 KUJ Se 15 KWBS 15 WKBZ 15 WMBY 15 WNBL 250 WRAH	Aneta, N. D. attle, Wash. Portland, Ore. L'd't'n, Mich. Bl'm'gt'n, Ill. Bl'm'gt'n, Ill. Prvdce, R. I.	215.7	1,390	10 KF 15 KF 50 KG 100 KG 250 KR 5 WA 150 WC	DZ Mnpls., M XJ Edgew'r, C CB Okla. C., C ER Long B., FG Okla. C., LO Los Ang., GS Lex'ton, M LS Jollet, III, BZ Kingst'n, HS Evanston, HS Evanston, BB Joliet, III KP C Chicago, BB Joliet, III KP Waukegan AA P'k'sb'rg,	inn. olo. Okla. Okla. Okla. Cal. Iass.	2.4 1,29	1 5 1 5	10 KFE 250 KFF 100 KFC 500 WH 500 WH 30 WLI 50 WM	Y Kellogs R Los A. Z H'lyw' Austin, BQ M'phis GS Gary, 3H Frmda BJ Moness BC Chicago	r, Idaho , Calif. d, Calif. Fex. , Tenn. Ind. Ie, N.Y.	256.3	1,170			L'rence, Kan. Richmond, Va. E. Cl're, Wis. Oakland, Calif. Berkeley, Calif. Muscatine, Ia.		1,020	1,000	** 11113	Wayne, Neh. Houston, Tex. Secaucus, N. Y. Voil City, Pa. Paterson, N.J. Milw., Wis.
201.2	1,400	50 KGEH 15 KGEY 50 WALK 100 WATT 100 WCBR 100 WHBM 100 WIBJ ( 100 WIBJ 100 WKBG	Eugene, Ore. Denver, Colo. Will. G., Pa. Boston, Mass. Prvdce, Rs. I. N. Y., N. Y. Chicago, Ill. Chicago, Ill. Chicago, Ill. Chicago, Ill. N. Y., N. Y.	217.3	1,380				4.2 1,28	30 1,0 1		E St. Lou R Tucson Tacoma, AH El Pas BC K'xv'le K Kokom Y Gadsden AN Columi BS Har'sb' PC Lapeer		258.5	1,160			Oakland, Calif. Serkeley, Calif. Muscatine, Ia. G. Rap., Mich. R'ville, N. Y. Springfield, O. N. Y. N. Y. Br'klyn, N. Y. S. L. City, U. Omaha, Neb. G'veston, Tex.		1,000	500 750 500 100 100 5,000 200 1,000		S. Jose, Calif. F'ettev'le,Ark. Akron, O. Tak. Pk., Md. Clouc'er,Mass. G'nesv'le, Fla. Dayton, O. Ashev'le,N.C.
202,6	1,480		Seattle, Wash. Clumbus, Neb. Cresco, Ia. San Ant., Tex. Mipls., Minn. Atwood, Ill. R'ch'str, N.Y. Phila., Pa.			100 KF( 5 KG 20 WI) 100 WK 100 WK 100 WL 50 WM 250 WR	DR Lincoln, Now Seattle, Wold Stockton, Stockton, BS Galesburg, BV Brkvle., BW Buffalo, BO Galesburg, BU Pittsbah, CO Raleigh, MES Quincy, M	ash. Cal. Wis. Ill. nd. 23 N.Y. Ill. Pa. . C. ass.	<b>3.1</b> 1,27	20				260.7	1,150			S. L. City, U. Omaha, Neb. G'veston, Tex. Omaha, Neb. Larlotte, N. C. Culver, Ind. VBeloit, Wis. Sy'c'se, N. Y. t. Louis, Mo. Omaha, Neb.	302.8	990			Avalop, Calif. Ravenna, Neb. St. Louis, Mo. WallaWal.W. Har'burg, Pa. St. Col'ge, Pa.
204	1,470				1,370		EW F. Mrgn., GU Coney Is., WB Milw., W BC Bmgton., BO Jsy. C., N BQ N. Y., N.		1,26	50 29 1,00 50 29 50		X Shr'v'pe X N'feld, M C. Sp'g /M O'kl'nc IC Harl'ge IW Norfol Y N. Y LL N'field, IF Ev'svil AP N. Y, BC Canton, SC Canton, SC Canton, R Norfolk	- 1	263	1,140			pokane, Wash, Phila., Pa. M'p'lis, Minn. Oil City, Pa. N. B., Mass, G. Rap., Mich. I M'p'lis, Minn.	305.9	900			L. City, Utah Boston, Mass. Buffalo, N. C. Wash' ton, D. C. Yankton, S.D. San Ant., Tex.  Seattle, Wash. Elgin, Ill.
		100 WIBW 250 WKEN 50 WLBN 250 WLBX 100 WMBA 100 WMBH 100 WSAX 100 WSAX 50 WTFF N	Jerome, Idaho. Te, Hte., Ind. Chicago, III. Chicago, III. Liz., N. J. Chicago, III. Liz., N. J. Chicago, III. L. I., N. Y. Newport, R.I. Joplin, Mo. Br'klyn, N.Y. Ohlo' (Port.) Chicago, III. At. V. H., Va. Fr'klyn, N. Y.	220.4	1,360 -	15 KGG 15 KGF 50 KGF 50 KJB 50 KXI 15 WH 100 WH	I San Ant., T I S. Angelo, C San Ant., S San Fran., C Shrevep't, J Portland, Or BU Anders'n, BW Phila., P K Ypsint., M BH La Cr., W BG Richmond, BO Auburn, N	- 1		1( 15 25	15 KFB: 50 KFV 25 KFY: 00 WCO 50 WIB: 30 WJB: 50 WLB: 00 WRA 50 WSB	Trinidad I Houston, F Oxnard, M M'ch'r, X Utica, h W N. O'l', I E. W'n W Readin C V'p'rais T So, Ben	I, Colo. Tex. Calif. N. H. V. Y. ns, La. I'a, III. Ig, Pa. Id, Ind. Ind.	265,3				Car'ville, Mo. Los A., Calif. Yuma. Colo, Amarillo, Tex. Mt. Prosp III. Red Bank, N.J. N. Orleans, La. Chicago, III. Va. Bch., Va.	309.1	950	50,000	KDKA	Lincoln, Neb. Fran., Calif. N. York, N.Y. Cot'ville, N.Y. Col. Sta., Tex.
205.4	1,460		lagstaff, Ariz. Barrett, Minn. rand Ia., Neb. Kalisp'l, Mont. Iva. Okla. Kingston, Pa. Monroe, Mich. Peoria H., Ill. Jn. City, Ten. amilton, O. buffalo, N. Y.		1,350 -	15 WT.	AZ Richmond,	Va.	.9 1,250	2,50 25 10 25 10 50 50	woa	Portland, R B'm'rck, P P't'key, M N. F'ld Madison D Norman X Trenton	, N. J.	267.7	1,120	_,000	OI A	eattle, Wash. Sant Ant., Tex. W'm'g'r'n, Del. Cleveland, O. K'ville, Tenn. mes, Ia.  du Lac, Wis. S. Fran., Calif. enver, Colo. Shreveport, La.	319	940 <b>9</b> 30	1,000 500 1,500 750 1,000 150	KOIN F WEAN WGHP WHA M WLBL WRHF	Portland, Ore. Prov'ence, R.I. Mt. C., Mich, Addison, Wis. Stev. Pt., Wis. Wash., D. C.
206.8	1,450	100 KGDW I	Hmbldt., Neb.	223.7			/C S. Bernd., L Trinidad, C CC Kans. C., A Allent'wn, BD Bellefntne. BF Rock Isl., TI Mntwoc., V N Allent'wn,		1)27(	1,50 50 25 20 50 10 50	00 KFK) 00 KFOI 00 WEB 00 WEB 00 WFCI 00 WFCI 00 WGE 00 WNB	B Milford, N L. Beac C Superior R Buffalo, C Chlcago E P't'ket, C Chicago, X Spr'gfie Z H't'n, W	Kan. h, Cal. Wis. N. Y. III. R. I. III. eld, Vt.	070.1				du Lac, Wis. 5, Fran., Calif. enver, Colo. breveport, La. Cincinnati, O. Decatur, Iil. Br'kl'n, N. Y. U, City, N. J. Tampa, Fla. tt. Was'n, N.Y. Louisv'le, Ky. C's'ton, W.Va. W'ds'e, N. Y.	<b>32.</b> 11	330	50 50 50 15 15 50 750 50 500	KFQA S WJBA WKBI ( WKDR WLBR WLBT WQAM WRRS WSMB WTAX	St. Louis, Mo. Joliet, Ill. Chicago III. Chicago III. Kenosha, Wis, Belvidere, Ill. Crown Pt. Ind. Miami, Fla. Racine, Wis, N. Orl's, La. Streator, Ill.
208.2	1,440	250 KEVD V	icher, Okla. an Fr., Calif. ortland, Ore. l. Y., N. Y. lansfield, O. amaica, N.Y. indicott, N.Y. in'xv'e, Tenn. fidl, P., N. J.			50 KGF 250 KMI 500 WCA 500 WCR	L Ev'r't, Wats S C. Girard., 1 R Ok. City. P Pueblo. Co B Iowa City. H La Cres., ( K Hallock, M C Inglewd., C M Camden, N W Chicago, II Q H'rrisb'g, I B Chicago.	ch.	8 1,230	12: 15: 5: 50: 1,50: 10: 25: 10:	5 KFCE 0 KGCX 0 KGRS 0 KGY 0 KSCJ 0 KWAF 0 WAF 0 WBR	Phoenix, Vida, M Amarillo, Lacey, Wa Sioux Cit C LaMars D Detroit, C B'm'ham Baltimor C Detroit	Ariz. lont. Tex. ash. y, Ia. Mich. l, Ala.	270.1		100 600 1,500 1,500 500 500 500 500 500	KFLX KGU H KLDS KMBC KOAC PI KQV PI WGST WHAD WJAS I WMAZ	G'veston, Tex. onolulu, T. H. Ind'p'nce, Mo. K. C., Mo. Corvallis, Ore. ttsburgh, Pa. Atlanta, Ga. M'w'kee, Wis. 'tt'burgh, Pa. Macon, Ga. M'w'kee, Wis.	325.9 333.1	920	2,000 5,000 2,500 1,000 500	KFQB F KOA De WABC I WAPI A WBOQ I	Ft. Wth., Tex. enver, Colo. Rchd. Hill, N. Y. Auburn, Ala. Rchd. Hill, N. Y.
		100 KGFJ L 50 KGCN C 15 KGCR B	so Ang., Cal. nc'rdia, Kan. rc'rdia, Kan. rc'rdia, Kan. rc'rdgs, S. D. landan, N. D. landan, N. D. landette, Pa. go. Hts., Ill. lshtabula, O. lvFxcr., Me. ls. Paul, Minn. ror. Pk., Ill. a. Porte, Ind. re. Hte., Ind.	225.4 1	.,330 —		J Juneau, Alas		8 1,220	500 100 250 250 100 300 500		Wichita, I Spokane, Spokane, Oakland, O Cit'n'ga, O W'dh'n, Cincinna Fr'port, M'p'lis, M'p'lis,		272.6	1			Phoenix, Ariz. kla., Okla. S. Maria, Cal. W. Laf., Ind. ollegev., Minn. Atl. Clty, N. J. Sag'w, Mich. Il. City, N. J. Irbana III.	336.9	890			Gr. Fks., N.D. fanhat'n, Kan, ocatello, Ida. oringi'd, Mass. Boston, Mass. Cincinnati, O.  Ang., Calif. Ph'd'p'a, Pa. an, City, Mo. Jack'ville, Fla.
209.7	1,430 -				1	50 KFU 50 KFV 15 KGE 50 WAO 50 WCO 000 WDA 000 WLA 500 WMA 500 WMA	Juneau, Alas Z Kirksvle., I R Ogden, Utal G Indpdee., K N El Centro, C M Ryl, O., Mi ID Mnpls., Mi T Olnvle., R. D Nshvle., Te C Cazen., N. R Syracuse, N	10. an. al. ch. in. 1. in. 247.	8 1,210	100 250	0 KFBC	W'dh'n, Cincinna Fr'port, M'p'lis, M'p'lis, M'plis, M'plis, M'plis, M'p'lis,		275.1	1,090 -	50 I 15 I 500 I 500 V	KFBB I KFPL D KFSG I WCAC WFBM WKBF	Havre, Mont. ublin, Tex Ang., Calif. Mansf'd, Conn. Ind'polis, Ind. Indianols. Ind.	340.7	880 -			Jack ville, Fla. an. City, Mo. Carthage, Ill. San Juan, P. R. Yel. Spr., O. lashville, Tenn.
211.1	.,420 -		oone, Ia. Falls, S. D. attle, Wash. prgfid, Ill. tuncie, Ind. ans. C. Mo. on M., Mich. Mphs. Tenn. chstr., N. Y. 'rr'sb'g, Pa. orfolk, Va.	227.1 1	,320 —	100 KFU 50 KGE 500 KSO 500 KXR 500 WAR 500 WBB	P Denver, Col U Lwr. L., Ca Clarinda, Ia. O Aberdeen, V S Br'kl'n, N. C Br'kl'n, N.	7a.		100 50 50 50 100 100 100 50	0 KGCA 0 KWL6 0 WAB\0 WAB\0 WAB\0 WBB\1 0 WBB\1 0 WEBB	Decorah, Decorah, Decorah, Decorah, Cheine, Ch	In. Ia. Ia. Ia. r. O. a. J. Tenn. d, Va. S. D. ge, O. gr, Ill.	277.6	1,080 -	2,000 I 500 I 750 I 100 V 500 V	KOIL, (KTCL SKWWG WDZ TWGBC M	C'l Bluffs, Ia.  eattle, Wash. B'ville, Tex.	344.6 348.6	860 -	2 500 1	Z ID. C.	Anchrg, Alas. tockton, Cal. Zion, Ill. Tampa, Fla. iciago, Ill.
		250 WCDA B 100 WMES B 15 WNBO W 15 WRSC CH	Barb., Cal. k'ridge, Tex. uba C., Cal. uscatine, Ia. attle, Wash. betroit, Mich. 'klyn, N. Y. rooklyn,N.Y. oston, Mass. 'ash., Pa. selsea, Mass. y Sh., N. Y.			5 WCB 100 WCL 250 WDB 500 WJA 100 WJB 100 WJB 250 WSD 200 WTH	E New Orl., L O Camp L., W K Akron, O. Y Cleveland, O C LaSalle, Ill. R Omro, Wis. A N. Y., N. S Atlanta, Ga LE Chicago, Ill	is. . 249.	9 1,200	15 50 100	WRAN	I Galesbur	g, Ill.	280.2 1	1 060 -	500 F 100 V 500 V 500 V 500 V 100 V	KTAB O WFBG A WGCP I WFIW I WNJ Ne WTAL	Daki'd, Calif. Altoona, Pa. Newark, N.J. I'pk'ville, Ky. wark, N. J. Foledo, O.	352.7	850 -	250 I 5 I 1,000 V 250 V 500 V	CWCR C CWTC S WEW S WJAM C WNAG WNAG	ritte, Wash, sristow, Okla. Newark, N.J. Astoria, N. Y. Cedar Rp., Ia. S. Ana, Calif. t. Louis, Mo., Cedar Rp., Ia. Boston, Mass, allas, Tex. etroit, Mich.
?12.6 1	,410 –	10 KFHL Os 100 KCBZ YO 250 KCDX SI 10 KGFP M 50 KCGP C 10 KTUE HG		228.9 1		50 KFW 500 KGBI	W Burbank, Ca V Portland, O J K'ch'k'n, Al Pasadena, Ca San Ant., T J Portland, Or P Johnst'n, P. E Wbstr., Ma	re. as.	1,190	500 50 100 100 500 50 50	WHBY WIBR	Astoria, O Ft. Worth H. City, C Columbia Medford, W. Barr W. Barr W. Barr W. dePere Steubenv	e, Wis. le, O.	282.8 1 285.5 1	5	500 V 750 V 50 V	WDRC I WEAO WRAK I	ortland, Ore, olumbus, O. N. Haven, Cn. Columbus, O. Esca'ba, Mich.	361.2 365.6	830 -	500 k 250 V 500 V	CFWB L VDAY F VDWM , VSAI M	os Ang., Cal. Fargo, N. D. Asb'yP'k,N.J.
214.2 1	.400 —	250 WRAX P	hila., Pa. rgfld., Tenn.	230.6 1,	2, 300 —	20 WNB 000 WOW	R Mphs., Tem	id.		500 10 15 50 50 5,000 100 5,000	WMBE WMBE WOK	C'k'sha, Los. A., I S. Cl'd, Lancaste: N. O'l'ns Lancaste: Homewood Tampa, I Chicago, 1	od, III. Fla.	288.3 1				burg, lenn.	370.2	010			esno, Calif. Canton, N. Y. Chicago, III. Clearw'ter, Fl. Looseht., III. Okane, Wash. Kan. C., Mo. New York, III. Loboken, N.J.
		500 WICC Sp' 100 WJBU Le 50 WKBN Y 100 WLBG Pe	escott, Ariz. unt'n, Mass. '.Wayne,Ind. anbury, Con. t Hill., C'n. wisb'rg, Pa. 'ngst'wn, O. tersb'g, Va. Y'ngst'n, O.		. 1	250 WGB 15 WIBZ 50 WLB 100 WQA	St. Jos., M. Gr'nv'le, Ter Seattle, Was Seattle, Was C'l'mb's, Mis Roanoke, V. Scranton, Pa M'nt'g'ry, A M Cambrg, Mas N Scranton, Pa D Lansing, Mic	a. s.	1,180	50 500 15 200 250 100 50	KFHA KFKU KGDA KGFX KMO WCAX WREC	Gun's'n, C L'wrence, Dell Dap. Pierre, S. Facoma, W B'l'ngton M'phis, T	Colo. Kan. S.D. D. Vash. Va.		1	500 K 500 V 500 V 500 V 500 V 100 V 100 V 100 V 1,500 V	VBCN C VBCN C VBET F VENR C VIAD P VKY OR VNAT F VSSH E WTAS C	t. Joseph. Mo. Ang., Calif. hicago, Ill. boston, Mass. brlando, Fla. hicago, Ill. hila., Pa. la City, Okla. hila., Pa. oston, Mass. chicago, Ill.	374.8				a. Mon., Cal. Misso., Mont. Omaha, Neb. Cr't'n, R. I. lint, Mich. ovidence, R. I. avenport, Ia. lay Cy, Mich.

Wave length	Frequency (kincycles)  Rower (watts)  Call (watts)  Catternoon (watts)	Wave length	Frequency (Kilocycles) Power (watts)	Location	Wave length	Frequency (kilocycles)	Power (watts)	Call Location	Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location	Wave length	Frequency (kilocycles)	Power (watts)	Call Location signal
379.5	790 750 KMMJ Cl'y Cen., Neh. 500 WCAJ Uni. Pl., Neb. 50,000 WGY Schn'dy, N. Y.		500 WHN 500 WPA	C Pullm'n, W'h. I N. York, N. Y. P Cl'f's'd, N. J. O Cl'f's'd, N. J.	428.3	700	500	KFBU Laram., Wyo. WCSH Portland, Me. WLW Harrison, O.	468.5	640	500 500		lton, N.H. v's'lle, Ky.	508.2	590	500 500	KLX Oakland, Cal. WIP Philadelphia, Pa. WOO Phila., Pa. WOW Omaha, Neb.
384.4	780  5,000 KGO Oakland, Calif. 1,000 KTHS Ht. Sp'gs, Ark. 100 WBSO Ws.Hls., Mass.	399.8	1,000 WEA	A Gre'l'y, Colo. R Cl'y'l'd, O. M Cl'y'l'd, O.	434.5 440.9	690 680		NAA Radio, Va.  KFJY Ft. Dodge, Ia.	475.9	• • • •	1,000	WOS Jef. WRC Wa	shing'n,D.C.	51 <b>6.</b> 9	580	500	WCAE Pittsb'gh, Pa. WMC Memphis, Tenn. WTAG Wrcstr., Mass,
	250 WCAO Bltmo, Md. 100 WCBM Bltmo, Md. 500 WMBF Mi, Bch., Fla. 100 WSRO Mid'town, O.	405.2	5,000 WCC 500 WFI	Los Angls, Cal. O MnS. P.,Mi. Phila., Pa. T Phila., Pa.			100 500 50 5,000	KFMR So. C'y, Ia. KFSD S. Diego, Cal. WIBG Elk's Pk., Pa. WJR-WCX Pnc, Mich. WSBF St. Louis, Mo.	483. <b>6</b>	620	250 100 1,000	WSB Atla	rlington, Ia. anta, Ga.	526	570	2 500	KFKX Chicago, Ill. KYW Chicago, Ill. KMTR Los Ang's,Cal. WNYC N. Y., N. Y.
389.4	770  500 WAAF Chicago, Ill. 100 WABI Bangor, Me. 1,000 WBBM Chicago, Ill. 500 WJBT Chicago, Ill. 5,000 WJRD Batavia, Ill.	413		M Manila, P. I.	447.5	670	500 500 1,000	KFOA Seat., Wash. WEEI Boston, Mass. WJAD Waco, Tex. WMAQ Chicago, Ill.			250 1,500 1,000 500 100	WCFL Ch WEMC B'	'r'n S., Mich. ovidence,R.I.	535.4	560	100	KFBK Sacram'to, Cal.
394.5	760 WWVA Wh'I, W. V.	416.4	5,000 WHT 5,000 WIB 1,000 WM	Crete, III. O Chicago, III. AFS. Dtm., Mass.	454.3	660	1,000	WQJ Chicago, Ill.  KFRC S. Fran., Cal. WJZ Bound Br'k, N.J.	491.5	610 600	5,000	WEAF N	rtland, Ore.	545.1	550	5,000 500	WCAH Columbus, O. WHO Des Moines, Ia. WTIC Hartford, Conn.
	1,000 KMA Shenandoah, Ia. 5,000 KOB St. Col., N. M. 1,000 KTW Seattle, Wash. 1,000 KWKH Shrevep't, La.	422.3	500 WOR	San Fran., Cal. R New'k, N. J. JI Iowa City, Ia.	461.3	650	2,000	KFNF Shenand'h, Ia.			1,500 75 500	WBBY C	L. City, U. t. Worth, Tx. h'rl'ston,S.C. tallas, Tex.	545.1	<b>33</b> 0	500 500 750	KFUO St. Louis, Mo. KSD St. Louis, Mo. WMAK Lockport, N. Y.

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Votified Statements of Users.

"You are risk, the Prexto tube does bring the distant stations closers." In use about half as much current, as I did before. Get distant stations from everywhere, even through static on bad nights. Would not take \$10,00 for Prexto tube, if could not get another.

PREXTO MFG. & SALES CO.

Dept. 2—Beaumont Texas



No better "A" Socket Power Unit can be obtained even at twice this amazingly low price. Combines all the efficiency of plate current with the undoubted convenience of socket power. No bothersome hauling around of batteries to be charged. No hum or noise. Highest quality Westinghouse electrical equipment. Operates on 50 or 60 cycles at 110 volts A. C. Thousands of satisfied users prove the worth of World Power Units. Approved by rigid tests of Radio News and other leading Laboratories.

Just name and

Send No Money Just name and address; and we will ship day order is received by express C. O. D. subject to examination on arrival. 5% discount for cash in full with order. NOW is the time to do it.

WORLD BATTERY COMPANY Station WSBC owned and operated by World Battery Company GO, ILL.

At the first crack of the World's Series bat....

there

Crosley! with

You're The Crosley Radio Corporation:

Can you explain "balancing," so folks can
Can you explain "balancing," so folks know
Linderstand it?
We technical people is a
understand it? We technical principle is a
understand it? If you can make it underthat Hazelline's neutrodyne principle is a
wonderful thing. If you can make it underwonderful thing. If you can make it underwonderful thing.
Yours truly, dable to la,— Yours truly, Yours Southenn Equipment Co• San Antonio, Tex.

ature always puts obstacles in our way. When men begin to study a new invention

or discovery they find that there are many problems to solve before a successful device can be built. This was the case with the steam engine, the printing press, the automobile, the aeroplane, and every other major invention that you can think of.

NOLITE MICHAEL THE VACUUM tube is, per-PYING haps, one of the most re-markable inventions ever We found that we could use it to

amplify the radio signals. But when we tried to tune these amplifiers, so that they would help us select the desired signal, we found that the vacuum had a tendency to misbehave.

When a tube is used to amplify, the output voltage is much stronger than the input voltage. This is the natural result of the amplification. But there is a path book

there is a path back through the tube through which some of the strong output voltage can get back to the input side of the tube. This voltage is then again amplified and again returns, getting stronger each time, the result being that the tube goes

that the tube goes wild. It becomes a miniature broad-

miniature broadminiature broadasting station on casting station on the casting station of the casting station

The Hazeltine method of balancing (or neutralizing) this path through the tube has several unique advantages over all the other methods that have been proposed. This is why Crosley radios use the Hazeltine "neutrodyne" method.



Its amazing performance is the result of its remarkable construction—the introduction of features found in the most expensive of radios and possible at \$55 only through mass production methods, plus the licensing of Crosley for use of the patents, research resources and discoveries of The Radio Corporation of America, The General Electric Co., The Westinghouse Co., The American Telephone & Telegraph Co., and The Hazeltine and Latour Corporations.

Check any radio at any price against these Crosley featuresstandards of comparison that indicate the Bandbox's superiority.

- -Completely shielded coils, condensers and wiring.
- -Acuminators for sharpest tuning.
- -Completely balanced genuine Neutrodyne.
- -Volume Control.
- -Single tuning knob.
- 6-Illuminated dial.
- 7—Single cable to outside connections.
- 8-Designed for easy installation in consoles.
- -Beautiful frosted brown crystalline

AC model using new R. C. A. AC tubes and working directly from electric light socket through Crosley Power Converter \$65. Power Converter \$60.

The value of this Bandbox receiver and the excellence of its performance can best be judged by seeing it and hearing it at the nearest Crosley dealers. If you cannot locate one of the 16,000 dealers, write Dept. 49 for his name and address and Crosley literature.



Selected by Powel Crosley, Jr., as ideal, acoustically and mechanically for the installation of the Crosley "Bandbox." Genuine Musicone built in. Crosley dealers secure them from their jobbers through

H. T. ROBERTS CO. 1340 S. Michigan Ave., Chicago, Ill.

Sales Agents for Approved Console Factories Showers Brothers Company The Wolf Mfg. Industries



MUSICONES

Musicones improve the reception of any radio set. They are perfect affinities in beauty and reproductive effectiveness for Crosley Radios. A tilt-table model with brown mahogany finish stands 36 inches high, \$27.50—16-inch Super-Musicone as pictured abone with "Bandbox," \$12.75—12-inch Ultra-Musicone, \$9.75.



THE CROSLEY RADIO CORPORATION Powel Crosley, Jr., Pres. Cincinnati, Ohio Prices slightly higher west of the Rocky Mts.



Crosley is licensed only for Radio Amateur, Experimental and Broadcast Reception

# Whatever type of radio power equipment you want—

WITH BATTERIES OR WITHOUT



Balkite "A"

Contains no battery. The same as Balkite "AB," but for the "A" circuit only. Enables owners of Balkite "B" to make a complete light socket installation at very low cost. Price \$32.50.



Balkite "B"

One of the longest lived devices in radio. The accepted tried and proved light socket "B" power supply. The first Balkite "B," after 5 years, is still rendering satisfactory service. Over 300,000 in use. Three models: "B"-W, 67-90 volts, \$22.50; "B"-135,\* 135 volts, \$32.50; "B"-180, 180 volts, \$39.50. Balkite now costs no more than the ordinary "B" eliminator.



# **Balkite Chargers**

Standard for "A" batteries. Noiseless. Can be used during reception. Prices drastically reduced. Model "J," \* rates 2.5 and .5 amperes, for both rapid and trickle charging, \$17.50. Model "N" \* Trickle Charger, rate .5 and .8 amperes, \$9.50. Model "K" Trickle Charger, \$7.50.

\*Special models for 25-40 cycles at slightly higher prices.

Prices are higher West of the Rockies and in Canada.

for whatever type of radio set you own— whatever you want to pay for it—

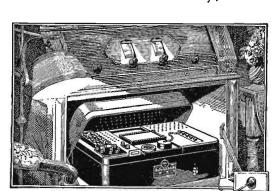
# Balkite has it

First noiseless battery charging. Then successful light socket "B" power. Then trickle charging. And today, most important of all, Balkite "AB," a complete unit containing no battery in any form, supplying both "A" and "B" power directly from the light socket, and operating only while the set is in use. The great improvements in radio power have been made by Balkite.

This pioneering has been important. Yet alone it would never have made

Balkite one of the best known names in radio. Balkite is today the established leader because of Balkite performance in the hands of its owners.

Because with 2,000,000 units in the field Balkite has a record of long life and freedom from



Balkite "AB" Contains no battery.

A complete unit, replacing both "A" and "B" batteries and supplying radio current directly from the light socket. Contains no battery in any form. Operates only while the set is in use. Two models: "AB" 6-135, \* 135 volts "B" current, \$59.50; "AB" 6-180, 180 volts, \$67.50.

trouble seldom equalled in any industry.

Because the first Balkite "B," purchased 5 years ago, is still in use and will be for years to come.

Because to your radio dealer Balkite is a synonym for quality.

Because the electrolytic rectification developed and used by Balkite is so reliable that today it is standard on the signal systems of most American as well as European and Oriental railroads. It is this principle, used in all Balkite Radio Power Units, that does away with the necessity of using tubes for rectifying current — that makes Balkite permanent equipment with nothing to wear out or replace.

Balkite has pioneered—but not at the expense of the public.

Today, whatever type of set you own,

whatever type of power equipment you want, whatever you want to pay for it, Balkite has it. Production is so enormous that prices are astonishingly low.

Your dealer will recommend the Balkite equipment you need for your set.

# FANSTEEL PRODUCTS COMPANY, INC., NORTH CHICAGO, ILLINOIS

Licensees for Germany: Siemens & Halske, A. G. Wernerwerk M Siemensstadt, Berlin Sole Licensees in the United Kingdom: Messrs. Radio Accessories Ltd., 9-13 Hythe Rd. Willesden, London, N. W. 10

# Balkite Radio Power Units-





Other Users Get Greatly Increased Distance Too

10,144 miles—and the music came in loud and clear. White residing at 217 Wyckoff Ave., Brooklyn, New York, established the world's distance record for reception within the tablished the world's distance record for reception within the B.C.L. band of 200 to 550 meters by tuning in 2FC and 3AR Australia with a simple six tube tuned radio frequency set—and a Subantenna. Think of it. 10,144 miles, and reception that was not only audible but loud, crystal clear reception music and song that Mr. White listened in on for some time before tuning it out and seeking other for away stations.

far away stations.

TED RADIO CO. of

The results obtained by Mr. White prove the distance getting capabilities of Subantenna beyond all doubt. For Mr. White writes For Mr. White writes

that during his tests, neither 2FC nor 3AR could be heard on a two hundred foot up-in-theair aerial, but the instant he switched back to Subantenna, either station came in very clearly.

Read the letter from F. L. C. of Mass. below. His experience was the same as Mr. White.

Confirming Letter from 3AR Melbourne, Australia.

Confirming Letter from 3AR aerial come in clear on a Subantenna.

3AR

Confirming Letter from 2FC Sydney, Australia. Cuba — Also South

# America

"To show you that I received a program from Station PWX in Havana, Cuba, I enclose herewith a verification card from that station. On January 28th, I received a program on my set broadcasted from Buenos Aires, South America at 10:15 in the evening. Many other long-distance stations have been heard on my set after installing the Subantenna. I never could receive such distance on my outside antenna."—W. C. F., Chicago, Ill.

# MoreStations-NoStatic

"I get plenty of stations with my Subantenna, on the loud speaker, that I have never been able to reach with my outside aerial. It absolutely cuts down interference to the minimum, cuts static out too—not just partly out—but all out."

H. S. M., North Carolina.

# Results-Almost Unbelievable!

"After 4 years of testing aerials I at last found the master in the Subantenna. The first night I used it was a very hot summer night. Static was very bad on my outdoor aerial. I connected my Subantenna and one could hardly believe the results. It was wonderful."—F. L. C., Mass.

Says "Static Is No More"

"I have received the Subantenna. My grandson installed it. STATIC IS NO MORE. Am well satisfied. I can tune in stations I never could coax out of the air even though I had a long aerial." A. E. F., Kan.

# CLOVERLEAF MFG. CO.

2713-G CANAL ST..

CHICAGO, ILLINOIS

www.americanradiohistory.com

# GROUND WAVES ARE PRACTICALLY STATIC FREE

That's Why Subantenna Gives Greater Distance and Clarity

The same radio waves that you have always taken out of the air also travel thru the ground. The only difference between the air, and ground components of the broadcast wave, is that the latter is practically static free, while the air component is always accompanied with static or noise of one kind or another. Scientists have long recognized this fact, and knew that if some device could be perfected for the reception of ground waves, clear, loud long distance reception would be a reality for the owner of the modest three or four tube set as well as for the possessor of the larger, more powerful set. Subantenna is the answer—tried, tested and proved by thousands of owners of all kinds of sets, and recommended to you by such leading radio laboratories as Radio News, Popular Radio, Radio Digest, and others.

Install Subantenna. Leave your old aerial up. Select a bad night when DX is almost impossible with the ordinary aerial. Make a comparison station for station, connecting first your aerial, then Subantenna. If, from stations that are just a mess of jumbled noise with the old aerial, you don't get reception that rivals local in sweetness and clarity the instant you switch to Subantenna, this test won't cost you even a single penny. Obtain a Subantenna from your dealer or send coupon at once for scientific explanation of Subantenna and for particulars of GUARANTEE and FREE TRIAL OFFER. SEND COUPON NOW!

ì	CLIP AND MAIL NOW CLOVERLEAF MFG. CO. 2713-G Canal St., Chicago, Illinois.
1	Tell me all about SUBANTENNA, your unqualified, unconditional guarantee and your FREE TRIAL OFFER.
i	☐ Send me FREE Circuit Diagram of the set used by Mr. White in tuning in Australian stations.  (Check here if you want circuit diagram).
1	Name
i	Address
ı_	

a New development •

# Freshman EQUAPHASE



# An entirely new principle of stabilization and these features:

- Four tuned circuits
   Single drive one control
   Full floating tube shelf
   Drum type illuminated dial calibrated in
- 5: Solid Mahogany cabinet artistically highlighted

wavelengths / / / /

\$70

A Freshman development—licensed under patents; RCA—General Electric Co.—Westinghouse Electric & Míg. Co. and American Tel. & Tel. Co.

# **Sold on Convenient Terms**

by Authorized Freshman Dealers only

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