New B Eliminator; "Sure-Fire Stuff"



Conclusion of Hugh Fullerton's "Big Rabbit"; New Broadcasting Cruiser, Grebe's WRMU; Anthology of WSM, Nashville; How WGHP Was Started; Latest Gold Cup Standings

#### OFFICIAL BALLOT No. 10

#### Announcers' Contest

#### RADIO DIGEST THIRD ANNUAL GOLD CUP AWARD

GOLD CUP AWARD Editor, Radio Digest, 510 North Dearborn Street, Chicago, Ill.

Please credit this ballot to:

(Announcer's Name) (Call Letters)

Address.....

City..... State.

7-1-26

To Broadcast Moose Convention CHTCAGO.—Practically all sessions of the Loyal Order of Moose convention will be broadcast by WJJD, the Mooseheart new Palmer House.

STUDY OUR COVER GIRL—THEN GUESS

ID you take a psychoanalytical observation of the face on the Radio Digest cover this issue? Before you read any further do so and guess the color of her hair.

We call your attention to the calm, well-poised expression. Cover one half of the face with your hand, then study the other half. One is the twinkling taunt of a mischievous elf, the other the classical serenity of Minerva.

And the crown of glory over all-did you guess it? Well, it's red gold. She was picked for the part of Hazel Stanton in the Radio Digest's famous mystery play, "A Step On the Stairs," at the Denver station of General Electric and her name is Miss Dorothy Reynolds. She has done many other noteworthy things at this mile-high broadcaster and is well known to all KOA listeners.

station at Mooseheart, Ill. The convention will be in Chicago from July 1 to 6, and the broadcasting is to be handled through WJJD's Chicago central in the

## **ARNOUX TOPS MAY IN** SPECTACULAR CLIMB

VOICE OF HOT SPRINGS UP-SETS GOLD CUP "DOPE"

Gaylord of WTAG Also Gives Thrill-Pat Barnes Holds His Own— Canada Is Dormant

Crashing up from eleventh place and upsetting the "dope bucket" by polling almost ten times as many votes as he had pre-viously been credited with, G. C. Arnoux announcer and director of KTHS, the New Arlington hotel station at Hot Springs, Ark., clinched first place this issue in the 1926 Gold Cup Award competition for world's most popular announcer. In so doing he took the lead away from Earl E. May who has occupied top position this year since actual standings have been

In the last previous standing, Mr. Arnoux had gained seven places by arriving at eleventh from eighteenth in order. The tremendous support being given the new leader by listeners all over the counnew leader by listeners all over the country indicates that, he is one of the most popular and strongest contenders for the 1926 Gold Cup Award.

Gaylord of WTAG Gains

Almost as spectacular a rise as that of Mr. Arnoux is shown this issue for Chester Gaylord, announcer for WTAG, the Worthern Clark.

cester (Mass.) Star-Telegram broadcaster. This easterner rose from sixteenth to sixth place by adding more than 10,000 votes to

Other contestants for the most par added to their count but maintained the same order as previously, that is, allowing for their being nosed down several places by the radical jumps of Arnoux and Gaylord. On the other hand some few candidates even increased their advantage despite the forced downward movement.

despite the forced downward movement. Pat Barnes, of WHT, kept fourth place by topping A. S. Kyne, of KMMJ, who had gone above him last issue. Jerry Sullivan, of WQJ, gained two notches from nineteenth to seventeenth. John T. Schilling of WHB, came from obscurity to eighteenth in line. Paul Johnson, of Gold Medal WCCO, E. L. Tyson, of WWJ, and Sen Kaney, of KYW, each gained one place apiece.

Standing of Leading Twenty-Five The present standing of the first twenty-five candidates is given below. The figure in parentheses following the name and station of certain announcers, indicates their order in the standing last issue if they were in the first twenty-five

1.	G. C. Arnoux, KTHS (11)	22,423
2.	Earl E. May, KMA (1)	19,514
3.	N. Brokenshire, WJZ (2)	16,831
4.	Pat H. Barnes, WHT (4)	14,456
5.	A. S. Kyne, KMMJ (3)	12,753
6.	C. Gaylord, WTAG (16)	1,688
	Henry Field, KFNF (5)1	
8.	The Hired Hand, WBAP (6)	7,843
9.	Phillips Carlin, WEAF (7)	5,286
	Peter MacArthur, WOC (8)	
11.	C. R. Randall, WSMB (10)	3,427
12.	Louis J. Johnen, WLW (9)	3,329
	Lester Palmer, WOAW (12)	2,884
14.	Gayle V. Grubb, KFAB (13)	2,535
15.	R. W. Griffin, WHO (14)	2,520
16.	Lambdin Kay, WSB (15),	2,186
	Jerry Sullivan, WQJ (19)	1,683
	John T. Schilling, WHB	1,584
	Wm. (Bill) Hay, WGN (17)	1,519
	Paul Johnson, WCCO (21)	1,457
	Edw. B. Husing, WRC (18)	1,417
	Harold Isbell, KNX (20)	1,402
23.	E. L. Tyson, WWJ (24),	
	Sen Kaney, KYW (25)	
	E. Konecky, WOAW (22)	1,026

Canadian Silver Cup Standing
Canada is dormant. Standings of the
leading five candidates for the 1926 silver
cup to be awarded to the most popular Canadian announcer, have not changed in BE SURE OF YOUR REGULAR COPY

(Continued on page 27)

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Radio Digest, Illustrated, Volume VXII, Number 8, published Chicago, Illinofs, July I, 1926. Published semi-monthly on the first and fifteenth of each month by Radio Digest Publishing Co. (Incorporated), 510 N. Dearborn Street, Chicago, Illinofs. Subscription rates yearly, Three Dollars; Foreign Postage One Dollar additional; single copies Fifteen Cents. Entered as second class matter May 3, 1926, 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 1926 by Radio Digest Publishing Co. All rights reserved.

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# Looking Ahead

Speaking of the Big Pacific Coast Radio Show, did you ever hear the inside story of Major Lawrence Mott and his Radio activities on Catalina Island? Thousands of fans who have written to KFWO have received bags of silver ore taken from the mines near this island broadcasting station. Read it in the next Radio Digest, out July 14.

A Little Weather-Beaten Church in Oakland, California, suddenly found its field of usefulness expanded over a vast area through one of the San Francisco Radio stations. Then came a change of plans and the little church found itself alone with no place to go-such was the beginning of KTAB as told in the mid-July number of Radio Digest.

It Has Been Something of a Task to Unite the Junior Members of the Household into some common interest through the Radio. Big Brother Emery of WEEI, Boston, seems to have discovered the secret with his Big Brother club. Pictures and story in a coming issue of Radio Digest.

Down in "Santone," Texas, the City of the Alamo, the quaint little river and the ancient missions, is the home of Radio Station WOAI. From this station may be heard the distinguished Jose Conrado Tovar and the Gebhardt Mexican players. The story will appear soon.

Fiction Features in Our Next Issue will include the beginning of a new story that will attract wide interest throughout the country. Van Demark's "Sure-Fire Stuff" will introduce Bobby in a new light and you will like Sheila and Johnny better than ever. First installment this issue.

England's Radio Fans Are Ablaze over Sir Oliver Lodge's brand new circuit. What it's all about and why, will be a brand new story in the next issue, out July 14.

'Dos and Don'ts" is the subject of another interesting article by the Technical Editor. These are convenient, short and snappy helps for home repairs on your receiver and its accessories.

# Newsstands Don't Always

WHEN YOU WANT

YOU WANT IT!

BY SUBSCRIBING NOW

THE THE PERSON BELLEVIALED

#### SEND IN THE BLANK TODAY

	Publisher Radio Digest, 510 N. Dearbern St., Chicago, Illinois.
	Please find enclosed check M. O. for Three Dollars (Four, Forcign) for One Year's Subscription to Radio Oigest, Illustrated.
l	Name
	Address
	City State

#### SHORT WAVES

By Marcella

the heaps of correspondence WHT dialers have piled upon my desk, it appears that I will have to open the program today with a few numbers dedi-cated to the personnel of that station. We will first hear a wedding march in honor of Pat and his new bride.

Ta-ta-ta-ta. Yes, he's gone and done! And the lucky girl was Eleanor Gilit! And the lucky girl was Eleanor Gilmour, who many of you have heard singing from the Wrigley building studio. Now watch his Marcella mail fall off! Brief sketch of Pat: handsome, brown eyes, straight black hair, tall and not too slender, dark sheik type brunette, but a man's man. Weighs 168 pounds, stands 6 feet tall, and is 32 years old. Was overseas in the A. E. F., and made fame in his "A Buck on Leave." Don't think he has ever written any music, "Linne." And does Pat play around with Al

And does Pat play around with Al Carney, asks "Betty," Probably so, Betty, as Pat and Al are just as good friends outside as in the studio.

Now a soft organ melody for Al. Our friend, Mr. Carney, is a smiling 195-pound bachelor, 25 years old and just liv-ing by himself in a cozy corner. For diversion he loves to drive his car about with both arms.

All right, the next is a tenor solo for Oscar Heather, "Radio's Smiling Tenor." For the benefit of "Anne," "J. M. R.," and others, I'll be very thorough. Oscar, besides having others, I'll be very thorough. Oscar, besides having a personality-plus lyric tenor voice, is a tall, broad and heavy bachelor weighing 230 pounds, rising 5 feet 10 inches, and possessing blue eyes, brown hair, fair skin and beautiful teeth. His disposition is sunny, aversion is women, hobby is music and age is 30. Born in Mitchell, South Dakota, and was started in Radio by Morgan L. Eastman of KYW.

You will enjoy the classical piano solo Miss Helen Rauh, WHT's delightful accompanist and Saturday morning juvenile program conductor. Gee, she's dandy! Like her myself. Unruffled, smiling discontinuous that breaks out like program. position that breaks out like rays of sunshine to meet you. Beautiful dark brown eyes and naturally curly brown hair, 5 feet 2 inches above the floor, 23 years old since she was born at Phoenix, Arizona, 110 pounds light—ah-h-h! Her pet aversions, to quote her, "people who can't be themselves, and dumb women." Her hobbies, sticking her finger in Jean Sargent's ice cream at lunch time, her music, outdoor sports and her fiance. Yes—it's true, but of course, competition still might have a chance.

And next let us have the noon farm report from Edwin Kemp, whose particular hobby this is. Edwin, when not exercising his dramatic tenor voice, is exercising his dramatic tenor voice, is usually wondering what other people think he looks like. The picture, aided in quoted spots by Mr. Kemp's own imagination, is this: Eyes, \*'dizzy" blue; hair, "dirty" blond; complexion, fair but "hurts like the devil to shave"; weight, 165 pounds; height, 5 feet 8 inches; age, 28; disposition, happy; dislikes egotism, flies and going without meals; likes music, Lillian Knowles, children and other Lillian Knowles, children and other animals. Edwin was born in Louisville, Kentucky, with a southern accent, and while he is still a "happy" bachelor, methinks he is not long to be so.

Before signing off, we must hear last, but not least, from our own Jean Sargent, but not least, from our own Jean Sargent, WHT's Jean, who will address the Women's club. Jean is one of WHT's best bets and most liked staff members. Personality is just what you'd imagine from listening to her; age, now getting less every year; matrimonial condition, unhitched; height, 5 feet 8 inches; weight, "it takes too many pennies," quoth she; hair, silver gray; likes her work first; dislikes snakes; plays bridge excellently; entertains royally, and is one of those few persons you can enjoy lisof those few persons you can enjoy listening too by the hour. Incidentally she prefers Chicago to Boston.

It would not be fair to sign off without delivering the message that each and every one of the WHT "gang" (except Pat) gave to nosey Marcella when she sought them out for statistics. "Why talk about us?" they asked. "Tell everybody that Pat Barnes is the best in the world, is nice to work for, and he certainly should win the 1926 Gold Cup for most popular announcer." There—I have done as they asked. Marcella will adjourn to the next studio.

Hah, smiling Bill' W. G. Hay, the Scoo-ootchman who has been doing the main part of the announcing from WGN main part of the announcing from WGN and WLIB, has received a deserved promotion to manager of the two stations. But he is still doing most all the announcing. Between his arduous duties he manages to squeeze in a few games of golf, each stroke of which he carefully recounts to me the next time I see him. You ex-KFKX fans surely remember Bill, don't you? At this point, I might as well answer "M. J." who asks about Charles Erbstein. Yes, Charlie is back again on

(Continued on page 14)

# COOLIDGE TO BROADCAST JULY 4

## PHILHARMONIC WILL OPEN AT WJZ JULY 7

C. B. POPENOE ANNOUNCES SUMMER ARRANGEMENT

To Give Stadium Concerts Wednesdays and Saturdays Over WJZ; Also Saturdays Over WRC

NEW YORK.—The Radio audience will have the opportunity of listening to the Lewissohn stadium concerts of the New York Philharmonic orchestra twice weekly during the coming summer, announces Charles B. Popenoe, manager of Station WJZ. WJZ will broadcast the splendid WJZ. WJZ will broadcast the spiendid concert biweekly, on Wednesday and Saturday nights and WRC in Washington will also broadcast them on Saturday nights. Each of the concerts begins at

nights. Each of the concerts begins at 8:30 p. m. Eastern daylight saving time. The opening concert will be given on Wednesday night, July 7, and the series will continue throughout the summer until September I. As in the past few years, the New York Philharmonic orchestra will play at all of the stadium concerts.

An additional feature of the opening An additional feature of the opening concert on July 7, will be an address to be given in the intermission by Adolph Lewissohn, donor of the Lewissohn stadium, who is often referred to as "the Andrew Carnegle of the Musical World," having given generously of his wealth for the advancement of music in America in much the same way that Carnegie advanced literature through his policy of establishing libraries throughout the land. "

Van Hoogstraten Chief Conductor

Van Hoogstraten Chief Conductor
The chief conductor for the season will
be Willem Van Hoogstraten who has led
the stadium concerts for the past four
years. The guest conductors will be
Nikolai Sokoloff, of the Cleveland orchestra; Henry Hadley, associate conductor
of the Philharmonic orchestra; and Frederick Stock, conductor of the Chicago
Symphony orchestra. Messrs. Sokoloff
and Hadley are already well-known to the
Radio and stadium audiences; but Mr. Radio and stadium audiences; but Mr. Stock's appearance will be his first in the New York summer season.

Mr. Van Hoogstraten will open the season on July 7 and will conduct until July 28, when Mr. Sokoloff will appear until August 3. Henry Hadley will lead the August 3. Henry Hadley will lead the concerts from August 4 until August 10, with Mr. Van Hoogstraten reappearing for the week of August 11. Mr. Stock is to conduct during the week of August 18, and Mr. Van Hoogstraten will conduct the concerts of the final week, beginning August 25.

Tisteners to Build Final Concert

August 25.

Listeners to Build Final Concert

As an added feature of the broadcast stadium concerts this year, the Radio audience is to be allowed to select the company of the standard but the Philipar. positions to be rendered by the Philhar-monic in the last Radio concert of the season. As the season nears its close, listeners will be requested to send in the names of the selections which they connames of the selections which they consider would make an ideal farewell concert, or a selection which they have particularly enjoyed, and from these selections of the Radio audience, the program of the final concert will be compiled.

This announcement by the head of Station WJZ, is a direct refutation of the

tion WJZ, is a direct refutation of the common assertation that the summer is "dead season" for Radio. In discussing the coming summer, Mr. Popenoe expressed himself of the opinion that this summer will bring to the listening audience bigger and better programs than they have ever before experienced, excelling in most cases even the mid-winter programs of seasons past.

#### "Hoover Should Not Be Only Head"—Colleges

University Broadcasters Prefer Commission for Radio

UNIVERSITY PL., Nebr.—Broadcasting should not be left entirely in the hands of Secretary of Commerce Hoover, unanimously declare the forty members of the Association of College and University Broadcasting Stations. All members, however, expressed themselves in favor of the general provisions of the White bill, announces J. C. Jensen, secretary, if adequate machinery for a court of appeal is provided to which disputed questions be referred, with assurance of prompt decisions and minimum expense.

As between establishing a separate Ra-dio commission and referring Radio questions to the interstate commerce commision, the members are almost unanimous in favor of the separate commission.

#### WJZ "IMPS" RECEIVE IVORY IMP CHARMS

EW YORK.—Some member of the Radio audience was so favorably Radio audience was so favorably impressed with the concerts given by the Imperial Imps from Station WJZ every Wednesday night that he wanted to send them a token. As they all live in separate parts of New York, one gift could not be given to all of them, so he had made four little imps. The charms are about an inch tall, fashioned from real ivory and identical. The four imps are now proudly displaying the gifts on their watch chains. watch chains.

#### **JULY 4 BANGS WILL** BE HEARD ON WAAM

EWARK, N. J.—Summer broad-casting literally will be in-augurated with a bang when WAAM broadcasts Independence Day fireworks here, direct from the chamber of commerce Fourth of July celebration at the South Orange village center. Several microphones will be placed in advantageous positions for picking up the entire pyrotechnic display with maximum effect. Since the Fourth of July this year falls on Sunday, the celebration will be on July 5 at 8 p. m. Eastern daylight saving time.

#### CINCINNATI GIRL IS RADIO PLAYER



The charming, intelligent appearance of Miss Helen Nugent is not deceiving. Her ability at interpreting various dramatic roles has been employed to the fullest extent by Crosley Station WLW at Cincinnati. Her last role their was in "Gondoliers," played several weeks ago. She played a leading part in WLW's version of "A Step On the Staigs." Miss Nugent also sings with a pleasing contract voice.

#### RADIO SECTION TELLS **OF STATION CHANGES**

WEW Increases Power—Three Stations Change Hands

WASHINGTON, D. C.—An increase in power, a new station at Vera Cruz, Mexico, and three changes in ownership are announced by the Radio division of the de-

Station WEW, owned and operated by St. Louis University, at St. Louis, has completed the installation of their new 1000-watt equipment and has been given

permission to increase power accordingly
The new Vera Cruz, Mexico, station has a wave length of 337 meters, power of 50 watts, and call letters CIC.

Ownership of WHBD of Bellefontaine, Ohio, has been changed from Charles W. Howard to the chamber of commerce of that city; ownership of WDBZ at Kingston, N. Y., has been changed from the ton, N. Y., has been changed from the the microphone, don't hesitate, but write Ulster County Council of the Boy Scouts the WTIC Studios.

of America to the Kingston Radio corporation, and WOKO, of New York city, formerly owned by Otto Baur, has been transferred to H. E. Smith at Peekskill,

Friday Night Is Amateurs' Night at Hartford, WTIC

HARTFORD, Conn.—Have you made your Radio debut yet? This is the question which many talented amateur performers are asking each other ever since WTIC inaugurated its amateur tryout period, officially known on the program as The Debutants.

These contests take place at 9:45 p. m. Eastern time on Friday evenings, and are open to all amateurs. Nor must they necessarily be of any one category, as songs, skits, instrumental renderings, in fact anything that will serve to amuse the Radio audience, is in order.

In case you feel the urge, and have an idea you might perform creditably before

## SESQUICENTENNIAL **TO HEAR PRESIDENT**

JULY 4 ADDRESS MAY GO ON ETHER NATION WIDE

Nation's Head Expected to Jam Exposition Grounds—E. A. Davies Is Official Announcer-in-Chief

PHILADELPHIA.-July 4, 1926, means nuch more than only another Fourth of July, for it marks the 150th anniversary of the signing of the Declaration of In-dependence. In this city a great sesquidependence. In this city a great sesquicentennial celebration of that event is being held. On July 4, President Coolidge will testify to the importance of the occasion by delivering an address at Municipal stadium, here, to more than a capacity crowd of 100,000 people.

The address will be broadcast through many stations. At the time of going to press the complete chain carrying the president's speech had not been announced. However, it is definite that WIP of Philadelphia, WGBS of New York, and WPG of Atlantic City will carry the ad-

In addition it is practically certain that many regular WEAF chain stations will be linked and broadcast the message simultaneously.

E. A. Davies Exposition Announcer Hundreds of Sesquicentennial exposi-tion events have been and are yet to be enacted and broadcast by the Philadelphia-New York-Atlantic City chain. Several score of national organizations are holding score of national organizations are holding their 1926 conventions in Philadelphia so as to enjoy the exhibitions, pageants and activities of the exposition. The Shrine convention has just closed here. The American Legion will hold its annual gathering here in the fall.

Edward A. Davies, director of WIP, Gimbel Brothers Philadelphia station, is the official announcer-in-chief of the Municipal stadium and exposition grounds

nicipal stadium and exposition grounds events of the Sesquicentennial exposition, and he finds himself a busy man. Mr. Davies enjoys a splendid reputation for having broadcast all the important musical and sport events in the past for WIP. He is well qualified for descriptive announcing and is an accomplished musician. His keen sense of humor and large fund of up-to-date stories make his services much sought after to act as toastmaster at banquets and the like.

#### HE GUESSED THEY TOO WOULD GUESS

And They Did-WGBF Listeners Determine Sources of Miscellaneous Noises

EVANSVILLE, Ind.—Here's a new one! of course, they've tried almost everything on the Radio, but maybe not this one. WGBF's program director sat holding his head, despondently attempting to think up a new skit, a new wrinkle that would tickle the ears of the jaded invisible audi-

To those not so well informed, we will inform that WGBF is the broadcaster of

As the program director, Harold Finke, cogitated in vain, a crash sounding like the proverbial bull in the legendary china

the proverbial bull in the legendary china shop, greeted his ears.

"What was that?" he shouted, awakened from his lethargy. Unanswered, he exclaimed, "Ah-hah, I have it! We'll have a noise guessing contest. We'll make all sorts of noises and let the listeners guess what causes them."

So WGBF did. The furniture store being well stocked, it wasn't difficult to make a noise like a man bumping his shins on a

well stocked, it wasn't difficult to make a noise like a man bumping his shins on a footstool, a buffet full of china coasting downstairs, or many other things. Rehearsals—noise rehearsals—were given listeners prior to the event. Prizes were given for the real event. Thousands of letters came from the aforementioned is add audience.

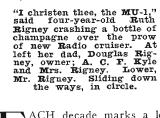
jaded audience.
"It's a weak noise," concluded Mr. Finke, "that doesn't wake

Like WGN Piano Lessons
CHICAGO.—Piano lessons over WGN
are becoming quite popular. Hundreds of
pupils listen each Friday at 5 p. m. Eastern time for them. Here is the way Edward Barry does it:

An illustrated copy of each lesson is sent to everyone who enrolls in the Radio Class. This the pupil has on the piano before him while he listens. With Mr. Barry in the studio while the lesson is being given is a pupil, who asks questions.

# Launch New Broadcast Cruiser





ACH decade marks a long stride in the efficiency of gathering and disseminating the news. Speed and more speed has been the fleeting goal. Yet in the span of one human life has marched a brilliant pageant of progress from the era of the Pony Express to modern Radio.

The days of the covered wagon are not so remote. Uncle Ezra Meeker heard the news of Abraham Lincoln's election through the medium of the dispatch rider and he obtained the news of the last presidential election from the period of the national convention to the president's inauguration speech over the air as it happened. And Ezra Meeker with his ox cart helped blaze the trail to the Northwest for the railroads!

The parade moved along. On came the telegraph, railway mail, then air mail. Old flat-bed presses were elbowed out of the line by the new high-speed web rotary presses, coupled in multiple units, with a capacity of a million newspapers between daylight and daylight. Motion pictures joined in step bringing to the eyes of the world news of great events with visual reality—in action, life-like; Byrd and his monoplane, Amundsen and Ellsworth on the Norge flying across the Arctic wastes to conquer the North Pole.

Then descending out of the air came the microphone to serve the news. First it relayed the casual news from the editorial rooms of the newspapers. Later it followed

the camera into the field of action and conveyed the news as it happened. More recently this has been particularized in sporting events. Escorted by a staff of operators, announcers, engineers and assistants it has taken its position at the race track to convey the sounds of the pattering hoofs on the turf, the throbbing roar of the motor and the whine of spinning wheels at the speedway, the crash of bone and brawn on the sidelines of football fields or the crack of the bat connecting with a baseball at a world's series game.

Somehow it seems that the Radio has adapted itself better to the service of sport news. That is where speed is needed most. Sport gives the reader something to anticipate, a thrill of suspense. Skill meets skill. Champions challenge champions. Who will win? Which is the greatest team? Can this one or that one make good against those others? Always an anxious, waiting moment for the outcome of supreme effort of physical perfection.

With the advent of summer come the water sports—not so easy for the microphone to follow. But now, even that contingency has been conquered. It will not be necessary to string relay wires through the water or post a confusing flank of microphones along a course. We have now the floating broadcaster, the fleet little monitor of a parent station located in the heart of New York City, Station WRMU, aboard the de luxe cabin cruiser MU-1.

Flecked with sparkling foam from the bottle with which it was christened the MU-1 slid down the ways to its historic career just four weeks ago. It was launched at the Jackson & Sharp yard of the American Car & Foundry Co., Wilmington, Delaware. Following is an extract of the formal announcement sent to Radio Digest:

"Ruth Rigney, four-year-old daughter of Douglas Rigney, Treasurer of A. H. Grebe & Company smashed a bottle of champagne on the bow, christening the vessel the 'MU-1'. Instantly the boat slid down the ways proudly into the waters of the Delaware.

"Many Radio fans will be interested to know that in this cabin cruiser is contained the completely equipped marine broadcasting station, WRMU, designed to operate on 63 meters for relay work and on 236 for direct broadcasting. The boat and transmitter have been principally designed to broadcast aquatic sporting events as did the original marine broadcaster last year, also called the MU-1. Many race events for the Radio public were covered, including the Gold Cup Regatta, held under the auspices of the Columbia Yacht club of New York. The Gold Cup races will be repeated this year at Manhasset Bay, Port Washington, Long Island, under the same auspices.

"Other events on the schedule of the MU-1 include the New York-Bear Mountain race on the Hudson River; the New York-Block Island race; the race from Larchmont Yacht club to Glou- (Continued on page 28)

# Solemn Old Judge Likes South

ANTHOLOGY of Announcers
and Artists at Memphis Station. King
Writes About Hay and Hay Writes About
Keefe. Uncle Dave Macon Shares Limelight,
Historic Character of Tennessee.

T'S the personality before the microphone that gives personality to a Radio station. Fortunate is that station which shines with outstanding personalities. Such a station is WSM of the National Life and Accident Insurance company, at Nashville, Tenn., where George D. Hay, "The Solemn Old Judge," holds court and guides the destinies of the little ether waves summoned before him "for a hearing."

Almost every Radio fan has read or heard something about "Old Judge Hay,"

Almost every Radio fan has read or heard something about "Old Judge Hay," but in this anthology of the personalities at WSM we are going to present the gleanings of Mr. George A. King.

## "A STORY OF THE SOLEMN OLD JUDGE"

By George A. King

EORGE DEWEY HAY, known to the Radio fans of the country as "The Solemn Old Judge," now director of Radio Station WSM, Nashville, Tennessee, won his way to fame and popularity not only through his original ideas of broadcasting and novel stunts, but because of strict adherence to his Radio slogan, "Never Fail to Broadcast a Smile." Mr. Hay is now living up to his reputation at WSM, where he is guiding genius of the station as well as chief announcer, for "The Solemn Old Judge" still keeps in touch with his large Radio following over the microphone, in addition to directing the activities of WSM.

"It isn't so much what the announcer says into the 'mike'," declares Mr. Hay, "as what he doesn't say, that counts toward popularity." And a host of Radio fans put their seal of approval on this philosophy when, through the Radio Digest

popular announcer contest, they voted him the most popular Radio announcer in the world in 1924. "The Solemn Old Judge" is a newspaper man who recognizes the importance of the Radio as a news medium; a humorist who appreciates a joke when it is on himself as well as when it is on the other fellow, and who understands without being cynical that people and their doings are always amusing; a psychologist who knows the importance of putting himself in a position of middleman between the artist and the listeners.

Mr. Hay was born in Attica, Indiana, and spent ten years of his life in the Hoosier town. Before his debut as a Radio announcer he was a newspaper reporter and feature writer on

the Memphis Commercial Appeal. He brought every bit of this experience to his Radio work and regards Radio as practically a new kind of newspaper, with a circulation running into the millions. "The announcer must have a nose for news," he says. "Radio is the world's newspaper and the announcers are its reporters."

"The Solemn Old Judge" took his

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

When Hay deserted the South for Chicago about two years ago to become chief announcer for WLS there, he left the "Hushpuckiny" in Memphis and started cross country with the locomotive as his Radio vehicle. Radio listeners soon learned that when they tuned in on the long, hoarse

"The Solemn Old Judge" he importance of the Radio appreciates a joke when it the other fellow, and who are people and their doings who knows the importance dideman between the artist iana, and spent ten years fore his debut as a Radio reter and feature writer on the solemn Old Judge Hay (right), first winner of loving cup. Jack Keefe (below), associate director. WSM station towers at lower right.



# Radio Plays Motor Obbligato

DETROIT, AUTOMOBILE Capital of World, Seeks New Laurels as Broadcasting Center with Station WGHP Leading Way in Adroit System of Air Exploitation.

T. Stanley Perry (left), directs musical features at WGHP. Mr. and Mrs. Eddie McGrath (below), stars in the Wolverine Frolics.



By HAROLD P. BROWN

VER since Henry Ford quit the farm, moved to town and started in business for himself, Detroit has been bowling along with the pace makers of American cities, getting "bigger and better."

Automobiles and more automobiles has been her motto

Automobiles and more automobiles has been her motto until now, it would seem, she can justly claim to be the automobile capital of the world. Yet Henry Ford cannot claim all the glory. No single automobile industry could fairly flaunt such a phrase as "the car that made Detroit famous." Detroit is famous for all kinds of cars—from twin-twos to twin-sixes. "Detroit" and "automobiles" are the real twins so far as name identity is fixed in the motoring mind.

Indirectly, out of this association, the Michigan metropolis seems now about to achieve a new kind of fame. The great indoor sport of Radio is weaving a laurel wreath for her brow.

Less than a year ago a keen-minded young man who had already made his mark in the world, literally as well as figuratively speaking, came home from a strenuous day in the office and stretched himself out in a comfortable chair in his house. He observed, rather curiously, against the opposite wall a new object of furniture. It was a new topnotch Radio receiver. He never had taken much interest in Radio because the few that he had heard did not seem to reproduce very satisfactorily. They lacked the true artistic relay of the original sounds.

reproduce very satisfactorily. They lacked the true artistic relay of the original sounds.

Rather indifferently he watched a member of the household adjust the dials. Music, sweet and gentle, drifted melodiously into the room. It was a bit of opera from the Detroit Symphony orchestra. George Harrison Phelps sat up abruptly and alert. He was more than surprised. He was positively startled.

melodiously into the room. It was a bit of opera from the Detroit Symphony orchestra. George Harrison Phelps sat up abruptly and alert. He was more than surprised. He was positively startled.

"I didn't know Radio was really like that," he observed, still listening. "Why that is real music! I can scarcely believe it. It seems incredible! Why that must be the magic rug and I am actually in the presence of the orchestra! How can it be?"

ROM that moment the man who created and acquainted the world with the unique style of advertising of the Dodge Brothers motor cars was a Radio enthusiast. He hailed it as a triumph in the way of a new vehicle for entering the American home with treasures from the world of art. He saw the practical side of it, too, for he was the head of a great advertising concern bearing his name. Yet he scorned the thought of utilizing Radio to cheapen the works of the masters harnessed irreverently and irrelevantly with petty exploitation.

At last he devised a way and Station WGHP, Detroit, came into being. It was inaugurated last autumn, dedicated to the best that Radio could produce. Its mission would be to convey, unostentatiously, a tribute of appreciation from the united clientele of the George Harrison Phelps, Inc., national advertisers, to patrons and the public in general. (Continued on page 26)

Talented musicians who are capable of playing the best in unison or in solo make up the operatic features and the Little Symphony orchestra. Among the several who have particularly distinguished themselves are the ones whose pictures are seen here: Mildred Carner Johnson (extreme left), contralto; Albertine Sohmittke (second), soprano; Leona E. Mitchell (center), soprano; Mme. Gizi Szanto (third), planist, and William D. Laurie (right), managing director.



# Travelers Hear Station R. R.

SCENE: Waiting room of a metropolitan railroad station a few years hence. Broadcasting studio seen through a window from the main waiting room. Loud speakers placed about big room convenient for a thousand or more passengers. Announcer at mike.

"LADIES and gentlemen: While we are waiting for the Pullman boys to get sleepers ready for the Nighthawk Express to Chicago we will listen to a few negro melodies by the George Brothers of Georgia."

Four white jacketed colored men may be seen through the transom taking their position before the microphone. Soon the vast waiting room is resonant with their voices intermingled with strains from banjos and guitars. The singers finish one song and then another. People come in from the street until every seat is filled. The big waiting room is transformed into an auditorium. The announcer steps again to the microphone. His voice is heard from the loud speakers.

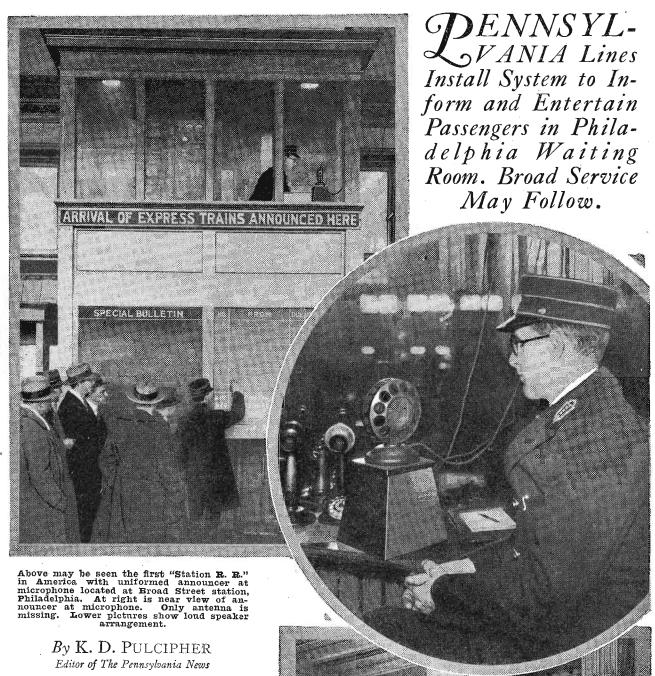
"Twenty minutes before the Nighthawk sleepers are ready. I have some very good news. Mr. Tito Curci, the famous tenor of the Metropolitan opera, has just come into the station on his way to Chicago and has consented to sing for you."

The great artist is observed removing his overcoat and a moment later he is heard and his golden voice thrills the audience that now nearly fills the station for it happens that nearly every evening now some celebrity may be depended

upon to be heard in this station. Sometimes a program may be heard brought in from a distant broadcasting station.

Is this mere fancy? No, sir, it is not. The idea was conceived some time ago by J. O. Hackenberg, superintendent of the Philadelphia terminal division of the Pennsylvania Railroad. In a modified form it already has been installed in the Broad Street station of that line in Philadelphia.

John R. Harper, an employe of the railroad whose voice had been heard from various of the local broadcasting stations was selected to announce and direct. The expressions of surprise and satisfaction on the part of the waiting passengers seemed to warrant all that had been hoped for. K. D. Pulcipher, editor of the Pennsylvania News, was asked to prepare the following report of the experiment:



MINIATURE broadcasting system is now being used with marked success for train announcing by the Pennsylvania Railroad in Broad Street station, Philadelphia. An experimental test made several weeks ago, in which temporary equipment was used, clearly demonstrated the advantages of broadcasting train (Continued on page 30)



John R. Harper of Penna,
Lines, experienced, Radio

John R. Harper of Penna. Lines, experienced Radio broadcaster, is first "Station R. R." Arnouncer. He jokes and chats over mike.

# SURE-FIRE STUFF by HARRY VAN DEMARK

OHNNY CLAVERING paused in the wings as a deafening round of ap-plause came from the auditorium. Appearing in the next-to-closing position at the Palladium, billed as "the world's greatest monologist," Johnny had finished dressing and strolled upstairs some time ahead of his turn as he frequently did. It was the opening matines of the work and the opening matinee of the week, and on such occasions he often watched the other acts from the wings, or through the little square hole in the tormentor.

Out in "one," singing syncopated melodies before a silk drop, was about as charming a bit of femininity as Johnny had ever seen.

"Clever kid, ain't she?" queried the on the cue sheet, as he gradually adjusted the dimmers, and made the transition from "whites" to "blues," as called for on the light-plot.

"Seems to be," Johnny returned.

"Who is she?"

"Some new gal from the West. Name's Sheila Shambaugh. Took the place o' Hindle and Harrington, outa the bill on account o' sickness."

Johnny nodded. hoofer," he observed. "A nifty little

Sheila Shambaugh was small, not in height so much as in extreme slenderness. Her lithe body had all the hard gracefulness of a boy's, with the deli-cacy of a young girl's fragile bones. She had a head of glorious brown hair, bobbed in the prevailing fashion, and curling close to her neck, and brooding, black, velvet eyes that suggested Latin forebears. Her tilted chin and indeterminate nose matched her curly locks.

Her slender, but graceful limbs, spick and span in black silk tights and dancing pumps, flashed through the con-cluding number of her routine, as she bowed herself off but a few feet from where Johnny stood.

"That's the way to do it," Johnny lled encouragingly. "Take a bow now called encouragingly. 'like a nice little girl.'

She nodded toward him unsmilingly, flashing a look of resentment from her somber eyes. She took three bows, waved a dainty hand to the orchestra leader, signifying that she was through, and made her final exit.

"You could 'a' took an encore," growled the electrician. "However, that aim't none o' my affair."

"You're right; it isn't!" she snapped.

AYBE you'll be good now, Tom," laughed Johnny. The girl turned the same unsmiling gaze upon him

"I don't know who you are, and I don't care. But I resent flip comment from stage hands and if you don't behave I'll report you to the front of the

For an instant Johnny was non-plussed. Then he laughed. "All right, sister, if you think that will do any good," he advised. Then to the electrician: "The younger they come and the greener they are, the more upstage they get—eh, what?" And Johnny walked away

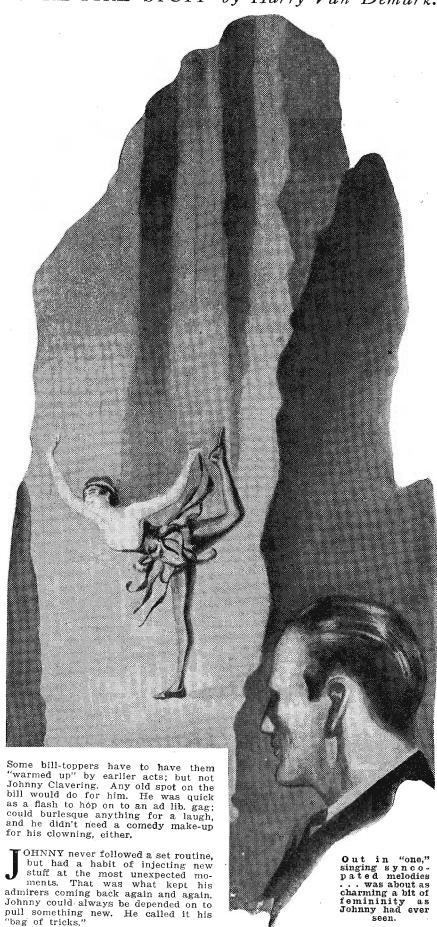
"Mr. Fresh!" the girl flung after him. She paused at the head of the stairway leading down to the dressing rooms. "Who is he, anyway?"

"Him? Oh, that's only Johnny Clavering, the headliner on this bill," returned the electrician in mock gravity. "Johnny Clavering? The—the monologist!" gasped the girl.

"Yep; that's him. And say—you think they liked you out there. Wait till Johnny goes on and sets 'em wild. And say, Miss Shambaugh, there wasn't no sense in your talkin' to him the way you did. Why, if you was in trouble he'd be the first person to help you out. Everyone in the show business knows Johnny. He's helped more sick actors get well, an' more down-an'-outers get He's helped more sick actors work than any dozen other fellers put t'gether."

The girl did not reply, but after a moment went slowly down the stairs, a serious look on her face. Fifteen minutes later, while Johnny was doing his act, Sheila Shambaugh, a dressinggown draped about her, stood in the wings and heard him "wow" them.

Accident Broke Up the Vaudeville Team of the Dancing Shambaughs. Sheila Had to Carry On Alone, Make a Living and Pay the Doctor Bills for Bobby. Then Johnny Clavering, the Headliner, Saw Her, and Just in Time ... It's a Peppy Romance of Love and Danger Behind the Footlights - This SURE-FIRE STUFF by Harry Van Demark.



At the night performance Sheila was more civil. She seemed to be trying to make amends for her hasty words of the afternoon; and, with it all, she looked tired and worried.

Johnny was standing in the wings again when she came off, and she turned a rather shame-faced gaze in his direction as she bowed a contrite recognition.

"They liked you even better tonight,"

he said, in a friendly tone.
"Do you think so? I thought they were rather cold."

"Audiences are that way. Sometimes we work our heads off and they're undertakers out in front; then, again, they go wild over nothing."

She started for the steps, then turned and frankly extended her hand. "Mr. Clavering, I'm terribly sorry for the way I spoke today. I—I didn't recognize you, and—well, I was irritated over some-

"That's all right, Miss Shambaugh.
Suppose we lunch together after the show and see if we can't be friends."

There was just the slightest hesitation before she replied:

"Very well—and—thanks!"

Across the table that night in a modest little coffee house—Sheila had stead-fastly refused to go the Ritz as Johnny urged—the headliner eyed his companion keenly as he sought to fathom the reason for those melancholy eyes.

She ordered modestly and sensibly. "I don't eat much after the show," she said half-apologetically.

OR I," returned Johnny. "As a consequence my sleep is usually free from the night-mares so often associated with lobster and other dainties of the fish and animal tribes. Come now, little girl," he urged, suddenly serious, "what's the big trouble about?"

"The—big trouble?" she faltered, surprised at the query.

"You're not happy. Any complications

in your bookings? "Well, I haven't played as often as I'd have liked to; that seems to be a general complaint of performers. But you, Mr.

Clavering—you're booked all the time."
"I've been rather fortunate. Good agent. That means a lot. Who's yours?"

"Barnes Jadwyn."

"Jadwyn!" exclaimed Johnny. "You don't mean to tell me that—" He broke off and drummed in nervous fashion on the table.
"Evidently you do not like Mr. Jad-

"Evidently you do not made wyn." This a little resentfully. Johnny's reply was evasive. "I don't know him well enough to either like or dislike him.

"But you started to tell me something about him."

"On second thought, perhaps I'd better

not."

"Who was it wrote something about it being better to leave a thing unsaid than tell but half?" she chided.

"I don't know. That's a new one on me. Longfellow, or Bobby Burns, or some of those poetical chaps, I'll bet. Whoever wrote it, it's a sure-fire gag."

"Tell me why you dislike Mr. Jadwyn."

"Tell me why you dislike Mr. Jadwyn."
"I don't, unless I've developed an instinctive dislike for him because of the

stinctive dislike for him because of the way he's treated some of my friends."

"I'm sorry to hear that. But, of course, there are two sides to every story. In my case. I'm sure Mr. Jadwyn is square. He—well, he is a friend of Bobby's—and——" She broke off and bit her lip. Was it confusion—or regret at having said so much? Johnny could not tell. could not tell.

Sheila did not divulge who Bobby was, either believing that Johnny knew, or because it was not a subject she cared She continued: "So when the—the accident occurred, he told me to go right ahead—to leave everything in Mr. Jadwyn's hands. He's been fair with me so I have no cause for complaint.

She laughed—a forced laugh, Johnny thought—and turned the conversation into other channels. Johnny tried artfully to steer the talk back to Bobby, but each time she forestalled him by some inconsequential remark. There was a note of frigidity in her manner by the time the waiter brought the food.

(Continued on page 29)

pull something new. He called it his "bag of tricks."

# BIG RABBIT & By Hugh FULLERTON

T WAS a dramatic moment on that broad, open air stage in the Florida jungle. Major Gaskill, proud and erect, stood defiantly between the giant negro, Trimble, and his beautiful ward, Roberta Tonneson. The rumbling mob of negroes behind us watched the developments expectantly. Trimble, in his regalia as Big Rabbit, had raised a vicious whip to bring the lash down over the white man's shoulder when the attention of the mob was diverted to a new entrant on the stage. From one side there waddled forth a tremendous turtle. Big Rabbit whirled about in amazement and immediately recognized an enemy. The turtle brought a roar of welcome from the noisy horde. Big Rabbit sprang to attack the new arrival with his whip. The mob growled its displeasure but the turtle proved he could take care of himself. Rearing himself on his hind flippers he delivered a crashing blow at Big Rabbit's mouth. I recognized the fist of my indomitable buddy, Borton. Big Rabbit collapsed and lay kicking feebly like a dying rabbit should. In the melee that followed Danforth and I seized Roberta and her faithful maid from behind the stage and rushed them to our boat. We were and rushed them to our boat. We were hotly pursued but soon eluded them all. Trimble was trussed in an ignobie heap beneath the seat. When all was still from the shore we quietly turned about and retraced our course in the hope of picking up Borton. Cautiously we crept along in the darkness, hoping that the half savage fanatics had dispersed.

#### CHAPTER XII

Borton Grins

OR a mile we crept along, danger-ously close to the bank, not daring to use the searchlight for fear of discovery. Then, from the darkness a voice hailed:

"Hello—over this direction."
"Dick—" I called hoarsely.

"Here—in the river," he called, guiding.
Twenty feet out from the trees, swimming towards us was Borton. I grasped his hand and helped him as he clambered over the side.
"Thank God—you're safe, Dick," I

said, getting mellow with sentiment, "I was afraid—"

"Heard you go past a mile a minute. Knew you'd be back," he said, panting a little. "I swam the river and climbed a tree. Heard you returning, so dropped in and swam out."

In and swam out.

I could not see his face, but gripped his hand hard. He was grinning—I felt that he was grinning, even though I could not see him. Then, with a

chuckle he said:
"Say, wasn't that a peach of a wallop
I handed that Rabbit?"

THE rising sun was laying a pathway of red and gold along the broad St. Johns, tinting the lotus pink, and gilding the water it touched when our overloaded boat, threatening to become disabled any minute, limped under the railroad bridge at Palatka. The negress, Tillie, still wearing her rabbit skins, was asleep, her head pil-

lowed on the knee of her mistress.

Trimble, sullen and frightened, lay cramped and shackled in the bottom of the boat, Borton, plastered with mud and utterly exhausted, was curled in an uncomfortable arc, his head on a gasoline tank, grinning in his uneasy sleep.

Danforth was at the steering wheel, smoking to keep awake. In front of me Roberta was so close I could have touched her as I strove to keep the crippled motor going: She scarcely had spoken since I told her gently as pos-sible, of Major Gaskill's death. She had wept silently for a few minutes and then said:

"He was good to me when I was small.

Money drove him mad, I think,"
"I fear he lost heavily," I said, thinking how to soften the blow. "He specu-

lated. I fear your money is lost."

"The money does not count," she said. "He was my best friend when I was a little girl."

I repressed a smile, which came because she looked so small and childlike as she spoke as of a far distant time.
"You have relatives, and friends?" I

"None that I care for, excepting Mr. Kincaid. I will not be a burden. I must think."

She fell silent, thinking, almost

motionless. She had not slept during the slow, perilous trip through the Ocklawaha and down the St. Johns. Now, as the sun rose, she turned her face

to me.
"It is beautiful," she said quietly, her
"more tender because soft, southern tones more tender because of sorrow and trouble.

She seemed so brave and so helpless I longed to tell her I loved her, and beg her to permit me to care for and protect her. The sight of the sullen negro watching us as we talked, and of Danforth's hunched shoulders silenced me. Then the thought that I, penniless and out of work, should offer her succor made me

glad I had not spoken.
"It will all come out all right," I said

UR landing at Palatka was observed only by a few negoes who had gathered to load freight for the early morning boat. They gazed curiously at the dethroned and shackled king, and at our disgulses, now half washed away, but did not move. We hurried the women from the boat and waked Borton to escort them. Danforth and I took Trimble to the nearest store where we telephoned, delivering him presently to the sheriff, who relieved us of the prisoner and agreed to summon the coroner and to send a posse to bring the body of Major Gaskill. That duty done I hurried to the telegraph office and sent a telegram to Mr. Kincaid which read:

"Miss Tonneson safe. Major murdered by negro Trimble, who is under arrest."

Then I went to Putnam, fell into bed and slept until four o'clock in the after-noon. My first inquiry after I awoke and sent bell boys skirmishing to bring me clean raiment, was for Miss Tonneson. I found her on the porch, pale and a little worn by grief and fatigue, but calm, and she greeted me with a wan smile. Borton was lounging lazily in a big chair, drawn close to hers. His athletic body was now clothed in white flannels, his face wreathed in its customary grin. A little pang of jealousy smote me as I saw how handsome he appeared even in makeship togs from the party of the same of th the nearest store, and I prepared to plead business with the sheriff and leave

them together.
"I have been trying to thank Mr. Borton," said Roberta, offering me her hand but making no effort to change her easy position, "I have waited to thank

"Let her do it, Wen," said Borton, grinning joyously. "She piles it on thick

and rubs it in. It is quite the most delightful experience I have had."

He arose as he spoke, lazily, but with his inimitable grace.
"It is best to be alone when she thanks you. I'm off to find Danforth."
"Bring him back with you, Mr. Borthan" ton," she commanded smiling at his quaint mannerisms. "Then you must tell

quaint mannerisms. "Then you must ten us how you found me."
"Yes, do Dick," I urged. "I have been puzzled to try to figure how you ever worked out your theory."
"Back in a quarter of an hour, if Miss

Tonneson can finish thanking you in that time. I had half an hour myself."

He grinned and sauntered away, and I blessed him for leaving me alone with her, even for so short time. Instead of speaking we both sat gaz-

ing out toward the river.
"I understand how you "I understand how you feel," I said, breaking the silence. "Please do not try to thank us. We are all glad you

are safe."
"I felt all the time you would come,"
she said quietly. "I never doubted it."

"Knew we would come; how?"
"I did not say 'we'—I said you," she replied steadily. "I knew only you. I feared at times you had not received

my message."
"Did you know we were in the car that

night?"
"No-not until Trimble turned on It was all

"No—not until Trimble turned on Uncle, then Uncle told me. It was all like a dream until we were on the boat in the river."

"We never could have traced you but for Borton," I sald, with a jealous pang.
"I knew you would try. It seemed all the time as if you were coming closer."

WE TALKED calmly of the weird events of the fortnight, of her alarm when she discovered Major Gaskill in the conspiracy with Trimble and herself being carried away in the car, of her change of fortunes. With every accent of her soft voice my wild hopes rose higher.

"Miss Tonneson—Roberta," I said, using the stilted form of the novelist.

"Now that you are no longer wealthy"

"Mistah Lindsay—Mistah Lindsay."
A colored boy, bearing a telegram emerged onto the porch. Storming inwardly I tore open the yellow envelope and read:
"Good work. Inform Miss Tonneson

principal investments saved. Market turned. Shlp body here. Keep mouth shut. Kincaid."

I stared at the telegram as its meaning became clear, and passed it to the girl.

"I congratulate you," I said dumbly,
"You are again wealthy."
She paid no attention, but commenced

to weep softly.

"Poor Major," she sobbed. "If, he—" At that instant Borton and Danforth

returned. "All arrangements made," Borton said cheerfully ignoring the distressing tab-leau. "Nothing to do, so I'll take great leau. "Nothing to do, so I'll take great satisfaction in relating to you the inside story of the great rabbit hunt. I say great delight for the reason that my little playmate, Wendell Phillips Lindsay, scoffed at my theories and even went so far as to insinuate that my mind was affected."

"I apologize, Dick," I hastened to say,

"I apologize, Dick," I hastened to say,
"I'll admit I was an ass—but how did

you figure it; I cannot understand yet?"

HEN I was a kid," Borton commenced, stretching himself comfortably in a chair, "I had a black mammy on our place in Alabama. menced, stretching himself com-She was from the Guinea coast and she told me the folk lore and traditions of her people until I used to creep into bed and shiver with fear. Since then I have read as much as possible about the ne-groes of the South. Most of the tales on Southern plantations are garbled forms of the zootheism of African tribes; the worship of animals. Some of the animal gods are good, some bad, some serious, some humorous. The Rabbit is the best known. I suppose in this country he'd be the god of Big Business. He is the smartest and shrewdest of the zootheistic deities, and usually wins by trickery. He is also a luck bringer, which accounts for the super-stition that the left hind foot of the stition that the left hind foot of the rabbit killed in a graveyard brings good luck. Big Rabbit is associated with Mammy Bammy, sometimes called Big Money by the American negroes. Possibly Mammy Bammy means Big Money. Big Rabbit is also called Riley Rabbit. Perhaps all the names are

Rabbit. Perhaps all the names are corruptions of African tribal words. If you have read Uncle Remus you have heard of the doings of Riley Rabbit and his Mammy."

Borton paused to ask permission to smoke, then continued:

"As soon as we heard of this case we heard of rabbits. The disappearance of Major Gaskill, his returns with money, his intimacy with Trimble, the evident fear and respect of Trimble by other negroes, and Trimble's unnatural other negroes, and Trimble's unnatural



Miss Tonneson sat in a steamer chair, wrapped in a rug. . . . "I'm afraid Mr. Borton is right about—about—your mulishness," she said. "I beg your pardon," I answered stiffly. "I do not quite understand." She made a little gurgling sound, her eyes danced and she broke into a nervous, light laugh.

influence led me to the conclusion Major Gaskill was playing upon the super-stitions of the negroes and using Trim-

ble to get money. "When I discovered Major Gaskill had rabbit signs all over his library and that he was an authority on the subject of negro superstitions I jumped to the con-clusion he had set Trimble up as a sort of deity, and was using him to control many of the ignorant negroes. When Trimble, at orders of Col. Gaskill, abducted Miss Tonneson to prevent expectations. posure of their plans, I was alarmed, convinced that Gaskill had trained up a Frankenstein who would assume the power and turn upon his master.

"Trimble was a victim of self hyp-

(Continued on page 28)

# Old Man Static's Funeral

AY back in the days when Mr. Edwin Armstrong was having a "heck" of a time trying to persuade the "Hams what were" that they should own a license to use his circuit regenerative at ten dollars per privilege, two "brass pounders" made the best galena survey Dubuque County, Iowa, ever had. Every inch of ground which had a rock upon it that might possibly prove grade one to twelve galena was tramped over a dozen times—and we got our "hunk." Oh boy, if you old hammers know what I mean!

Those two ambitious little trampers were a fellow named Le Vin and the writer. Le Vin claims that he cannot write a story to his wife that gets by, hence he delegated me to go ahead but leave his name out, which I have, so far as the first part of it is concerned.

With this "golden nugget" we copied calls and messages—sometimes. Then came the big night when a CQ rolled in, distant almost forty miles. CQ was enough. What he may have wanted to say was of no consequence. We had his call, and inasmuch as it was miles further than we had ever hoped to receive for the next fifty years, we called it a night, stuck out our manly chests and refused to converse with the ordinary mortals.

But the next afternoon came the big surprise. Overly

But the next afternoon came the big surprise. Overly kind and considerate painters when working on the home the previous fall, had broken the lead-in and wrapped it around a convenient nail. To make a long story short, our first big time reception had been accomplished with about seven feet of lead-in and—well, it must have been a whale of a ground. What phenomena had done the trick and how were we able to receive at all was quite beyond two small boys. In place of broadcasting the facts, we were careful to keep very quiet about them realizing that if we mentioned that we had used practically no aerials—then both of us would have been liars instead of but one.

#### The Mystery Solves Itself

Yet, you who are interested will appreciate that years after, altogether too many years—the reason why has been made clear and from this early experience the simple underground aerial which will be described in this article has been evolved. In reality, it is not an underground aerial, but in truth a mighty good ground with a touch of Clerc Maxwells gray matter added to the batter and the finding of Sir Oliver Lodge put over it for the crust.

It works well in more localities than the other types that have been described, while its usual performance is such as to warrant the statement that the system is a correct step forward to the solution of the static bugbear. Before describing its installation, the author feels that a more clear understanding of the word "resonance" is desirable, as well as "oscillator excita-

These words need not alarm you as they constitute the first and last attempt to use technical phrases in this article. Webster defines the state of resonance as "a result from the repetition of small impulses which, when two bodies are in tune, have a purely additive effect, but otherwise tend to neutralize each other. Electrical resonance occurs when an electrical circuit has a natural period equal, or nearly equal to the period of the source of alternating electromotive force." Or in other words, this means to vibrate in sympathy or

CHAT SIR
Oliver Lodge Has
Recently Said About
Forced and Free Vibrations, and Why a Good
Ground Is Necessary.
Part V.

By MILO GURNEY

synchronism with some other source of sound or electrical oscillation.

#### "Forced" and "Free" Vibrators

There are two classes of vibrators, viz, "forced" and "free." A "free" vibrator is one with a definite frequency of its own and not coupled to an influencing or driving medium. Once excited and left to itself, the vibrations will gradually die away. A tuning fork is an example of a free vibrator. Electrically, any closed circuit possessing inductance and capacity, such as an inductance used in Radio receivers, is a free vibrator so long as their is no driving agent near it.

Conversely, any such circuit coupled to an exciting circuit immediately becomes a "forced" vibrator. Receiver circuits are always forced vibrators, with the strength of the excited oscillations depending upon the tuning. Any mass may be caused to vibrate, however, independent of tuning by the application of sufficient stimulus. A child can readily cause a church bell to ring irrespective of the strength of its blow, if such blows are properly timed. This is because of additive power at the point of resonance.

Sir Oliver Lodge points out a most unusual observation which is often noticed when tuning one's receiver. He says that in such cases when tuning, the free vibrator tries to vibrate at its own period and does so until the driver or impressed frequency dominates. When at this point, that which is thought to be a

heterodyne whistle occurs. In effect it is a true heterodyne, for the two frequencies are superposed. Once the driver dominates, the free vibrator synchronizes and we secure a response at a given amplitude.

#### Strong Signals Not Needed

It is obvious, however, if one will but follow the anology of the child causing the church bell to ring, that extremely strong driving signals are not required from the antenna to bring the input into resonance, as its directed power is additive, or builds up. It matters little how weak the received signal may be. If the acceptor circuit is of the correct design, the received signal may be worked up through the power of resonance to a desirable value. Bear this statement in mind as it has much to do with the underground antenna which is offered herewith later.

This further, interesting statement should also be rehearsed until one is letter perfect in his understanding of it:

"When two circuits are coupled together, neither of them are free vibrators, and each interferes more or less with the other, while the combination of such circuits cannot hope to attain the energy of a free vibrator. Successful amplitudes are therefore to be had only when the circuit used is of very low resistance and so arranged that it will be driven or disturbed by the forced vibrations arriving from the station tuned to, in a slight manner." My authority again is Sir Oliver Lodge, inventor of tuning, and Sir Oliver is not to be denied.

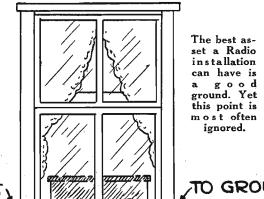
#### Reducing to Layman Language

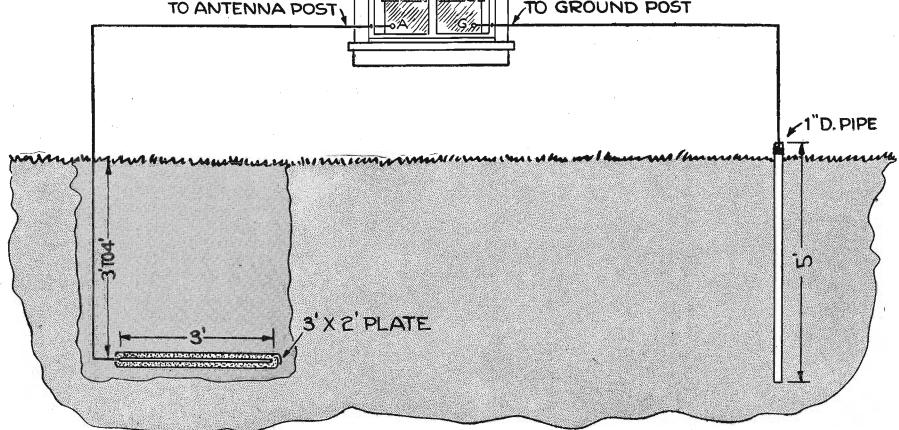
What does all of this mean in language of the layman? This and this only: (1) We are using altogether too much antenna. (2) We should not conductively couple to the grid input. (3) A fixed condenser of some value should be inserted between the aerial and its connection to the receiver. (4) Any tendency for the existence of magnetic coupling should be avoided.

That is a pretty big order. One cannot well change their present set or the coils to enlist the advantages of this ideal, but in direct ratio to the efficiency of your receiver is the lack of any antenna required. What you will do then, unless you have the crack performer in the Radio receiver line in your town, is to forget the installation of other than a husky outside aerial and suffer in silence. How are you to determine this point? Build the best ground connection possible, attach it to your receiver and go to it. If it pulls in the average of the important stations, you have something; if it doesn't, you have something; if it doesn't, you have something coming—a trip back to the overhead.

Therefore, with the above information, which is but a scratching of the surface of wonderful Radio reception under ideal receiving conditions, we will now tell you how to build a real ground, and you may call it your underground antenna, for without a ground connection, many Radio Digest readers will reap satisfaction from its use. The failures have also gained unintentionally for they have constructed the type of ground which the receiver always begged for. That's fair enough, is it not?

The ground, or as it may be proved, the underground (Continued on page 30)

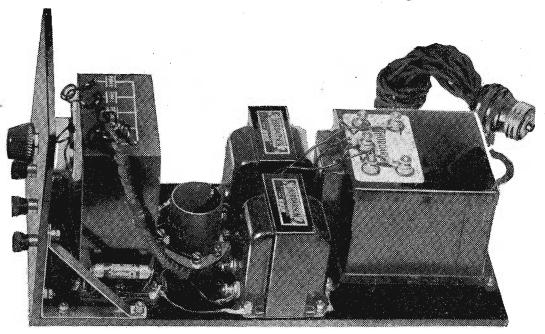




# This Bliminator Is Good

**G**VEN Mr. Alladin (1) Would Sit Up and Take Notice of the Marvelous Even Supply of Plate Current Which Is Furnished When You Harness the Wonder Raytheon Rectifier Tube with Thordardson, Potter and Bradley Accessories. This B Power Unit Is Easy to Make.

By the TECHNICAL EDITOR



of completed Thordarson-Raytheon-Potter eliminator showing the assembly. The shape may be changed to suit available space.

EMEMBER Alladin, that Arab boy who had but to pass his hand over his wonderful lamp and the Giant Genii would appear to do his bidding? Outside of the story books, however, progressive Radio has produced another wonder called Raytheon, which is nothing more than a gaseous rectifying tube so designed as to rectify the ordinary, everyday, 60-cycle electric lighting house current, and in this process of rectification, change the house current to direct current suitable for replacing B batteries for the plate supply current on the tubes of your receiver.

There's much in a name. The name Raytheon, according to Miles Penny-backer, chief engineer of the Raytheon Manufacturing company, is no exception. The word is compounded from the word Ray, analogous to ray or glow discharge tubes, and the word Theon, signifying "The Gods", hence the compound word Raytheon means "Ray of the Gods". They tried very hard to give C. G. Smith, inventor of the well-known. inventor of the well-known S tube, a place in the sun when naming this new rectifier, for it was his work which paved the way for the present Raytheon, but the Smith's, so far as names are concerned, are an exclusive lot. "Smithson" would never do as the name of a tube and "Double S" showed promise yet might lead one to believe that yet might lead one to believe that all of the other Smith's in these United States were in on the secret. Therefore, they treated the subject as Kelly did his list of men whom he could whip—scratched off all the possible names and ran a dark horse, Theon, a Greek whose first name was Ray. Such is the destiny of feme

THOSE interested, it appears that the construction of a satisfactory Raytheon is a rather complicated process. The most important of the operations is the "bombarding". Bombarding a tube means subjecting it to extremely powerful currents having frequencies of several million cycles per second. This process brings the metal parts of the tube to a brilliant orange-white heat, which drives what-ever residual gasses may have been in ever residual gasses may have been in the metal out into the tube so that the vacuum may draw them out through the exhaust. Once a tube has been bombarbed four times, it is filled with the desired amount of pure gasses and sealed. From this point on, it has little chance to go out into the world unless it can pass with flying colors a multiplicity of tests. If the tube successfully passes each of these rigid tests, it is labeled, based, and the next we hear of it Alladin himself is gasping with as the little giant unadulterated flow of rectified alternating current into the plates of his Radio tubes.

HIS little giant is however helpless unless associated with an input transformer, the proper value of chokes and a battery of filter con-densers. The requirement is obvious that such associated parts not only be designed by manufacturers of ma-ture experience, but that the history of these manufacturers show an ever zealous endeavor to construct apparatus

under the most rigid of specifications. under the most rigid of specifications. Our selection of the parts for this eliminator has been equally rigid with the result that the No. R-195 Thordarson transformer and two Thordarson No. R-196 chokes are specified with the assurance to the builder that they represent unquestioned quality of a very high order. For illustration, the No. R-195 transformer is wound upon an oversize or generous shell type core, which after placement in its steel housing is filled with a special, stable insulating compound. Exact measurements are taken at the factory to insure that the secondary of this trans-

such as to withstand indefinitely not only normal demands placed upon it but the surge strains which often occur. Because the insides of all fixed condensers are well hidden, and the outward appearance of many makes look very much alike, the constructor is not to blame for assuming erroneously that any old make of filter condenser will do. Don't gamble! One condenser which decides to" go west" in a filter circuit can create more profanity and trouble than a one-armed man would have with the prickly heat.
In selecting the Potter condenser block,

manufactured by the Potter Manufactur-

Figure 2. Circuit of Thordarson-Raytheon-Potter eliminator.

former is tapped at its electrical center. On either side of this electrical center, secondary voltages of the proper value of output are supplied to correspond with the B current consumption of the receiver. Realizing that any overloading of a transformer used in B substitute devices but spells final disaster, the Thordarson engineers have designed this transformer so that it will supply a plate voltage of 140 volts at 40 milliamperes, and of 90 volts at 40 mills, which is far and beyond the requirements of any Radio receiver now in general use. A further proof of its reserve power is found in the observation that even under continuous service the transformer will not heat.

The chokes display an equally careful design. Their inductance value is 30 henries, while their current carrying henries, while their current carrying capacity is of the order of 60 milliamperes with a direct current resistance of 280 ohms. One can ill afford to experiment when constructing B eliminators, and this information clearly indicates that the apparatus selected represents that which is entitled to unbiased recog-

Possibly no part of an eliminator circuit is so dependent upon successful operation with ful operation with complete absence of alternating current hum as is the fixed condenser filter system. This must be greenest tyro cannot make a mistake in

ing company, for the filtering system in this B eliminator, samples of the linen condenser paper and tin foil, as well as the impregnating compound which Potter employs, were secured and put through rigid tests for quality. In addition the No. 350 block, which is specified in this assembly, was given a breakdown test that was quite beyond any abusage which might occur when in service. The results of this careful selection will be enjoyed by the listeners who build the eliminator. Capacity ratings of the Potter block were found very accurate while a summary of the care taken in their the impregnating compound which Pota summary of the care taken in their manufacture is evidence of this company's evident determination to command recognition through building under modern factory inspection methods.

CIRCUITS in mystical Radio come and go, like the Arab. Today's popularity may be followed by their absence on the morrow without anyone having seen them fold their tents and silently vanish into the night. B eliminator circuits however are not subject silently vanish into the night. B eliminator circuits, however, are not subject to change. There is but one circuit using the Raytheon tube and that is as offered by the tube manufacturer. It is shown here in figure 2. All filter condensers are keyed in the drawing, and the wiring diagram is so simple that the

..\$35.50

its assembly. C1 and C2 are 2 microfarads each; C3 is 8 mfd.; C4's value is .5 mfd.; and C5 and 6 are .1 mfd. in

It should be understood that the condenser blocks Nos. 350 and 385 of the Potter make contain all of the condensers required for the filter shown in the diagram, and in addition, a condenser is included for the use of those who desire voltage between Det. and +B for special circuits. In the latter event, it is only necessary to connect one side of the extra 1 mfd. condenser in the block to -B and the other terminal of this condenser to one side of a 100,000-ohm maximum variable resistance. The remaining terminal of the added variable resistance is then connected to the point marked +B on the drawing. As a hum prevention device, it may be wise in constructing the eliminator to ground the —B wire to the metal cases of the Thordarson transformer and chokes. This may be accomplished by soldering to the cases or fastening the grounding wire under the mounting screw heads of the cases. If your A battery is not grounded from either its + or - terminal this should also be done.

HE socket employed to hold the Raytheon tube is standard. The +F and -F terminals are conneeted together and in turn connected to one terminal of the first choke. The grid terminal of the socket connects to C5 while the plate terminal of the socket connects to C6. To each of these C5 and C6 connections short flexible leads are connected and equipped with clips in order that these connections may be made to either the low or high side of the Thordarson input transformer.

A photograph of the completed unit is shown as figure 1. Here it is noted that an oblong shaped assembly plan was carried out. This may be changed to any convenient form the constructor may desire in order to fit into some special cabinet. However, if the oblong form is used, the baseboard dimensions are 6½ by 14 inches and the front panel 6 by 61/6 inches

R2 is a fixed resistance of 10,000 ohms while R1 is a variable resistance of 100,000 ohms maximum. A word about the Allen-Bradley resistances specified for this eliminator will save many a constructor much grief and dodge trouble in the offing. The Allen-Bradley company, as many of you may know, are resistance specialists. Their entire organization has for years made an intensive study covering this field of apparatus. If they do not know how to make efficient resistances of all types, it is only fair to assume that their business never would have been able survive. The writer's experience with their products, covering a period long before Radio became popular, has been such as to select both their variable and fixed types for the construction of this B substitute without equivocation.

UT OH-what a lot of trouble these But the devices have in store for the person who attempts to abuse them. Each variable resistance is operated by a knob attached to a plunger (Continued on page 26)

#### LIST OF PARTS

- Thordarson Elec. Mfg. Co., Chicago \$ 7.00
  Thordarson Elec. Mfg. Co., Chicago 10.00
  Fotter Mfg. Co., North Chicago 12.00
  Potter Mfg. Co., North Chicago 1.50
- 1 No. R-195 Transformer
  2 No. R-196 Chokes
  1 No. 350 Condenser Block
  1 No. 385 Condenser
  1 Standard Vacuum Tube Socket
  1 No. 10-R Fixed Resistance
  1 No. 10 Variable Resistance
  Formica panel, wire, baseboard, etc. .75 .75 2.00 1.50 Allen-Bradley Co., Milwaukee Allen-Bradley Co., Milwaukee

Total Cost .....

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No. 8

#### Let Congress Adjourn

AS THIS issue of Radio Digest goes to press, we learn that congress, the body of so-called legislators in Washington, is thinking seriously of continuing its session through the first week in July. In that event the senators and representatives will still be profoundly legislating as this edition passes into your

The reason is that the boys "on the hill" at the Capitol are somewhat chagrined and panicky at current events. The primaries have been too much for them, and the congressmen feel that maybe this man Coolidge hasn't been such a prophet as their own good judgment might have been. The constituents in many states have been taking their pounds of flesh, and while the operations always have been proclaimed a success, nevertheless the patients died.

And who wants to be an ex-senator or ex-representative?

In the meantime, before congress has adjourned, we wonder if any Radio legislation will have been passed by both houses.

We have just glanced over a revised copy of the White-Dill bill, No. H.R. 9971, as reported out to the senate by the committee on interstate commerce. It looks very little like the original bills sent into that committee. Its amendments are so many that Mr. White and Mr. Dill would probably have great difficulty in recognizing it.

With all its changed and added features we are led to believe that careful consideration should be given to this measure by the public, the broadcasters and the Radio industry. To date the chiefly interested parties have proven to be broadcasters. The public doesn't care much, and the industry seems content to wait and see how any new Radio law would work, once it is enacted and enforced.

Whether or not we want Secretary Hoover or a commission in charge; if the latter, how large a commission; shall broadcast stations be declared common carriers; shall stations be denied the right of censorship of their own programs; who shall regulate the sale of stations; for how many years shall licenses be granted—what is the answer? Have you thought it over? Yet, all these questions will be decided by the impending legislation.

Yes, we believe it best after all, that congress forget about Radio for the remainder of its session and devote its time to such things as farm relief, the world court, prohibition and other vote-threatening issues.

#### A Proof of Progress

A RADIO manufacturer has become indignant over the statement of a "smart Aleck" paragrapher that Radio photographs look like most Radio sounds. We cannot become indignant over the paragrapher's comparison because we feel that the poor fellow is merely uninformed. We ask him to correct his statement to say, "Radio photographs look like Radio once sounded."

Certainly reproduction in Radio has been vastly improved during the past four years. Atmospherics, of course, have yet to be overcome, but these do not figure in reception from local or nearby stations. A modern, medium quality receiver and loud speaker nowadays is superior to the phonograph in tone.

Let us prove the latter. For nearly ten years prior to the wave of Radio popularity, talking machine manufacturers were content with what they considered very

But since Radio has become an everyday necessity in many middle-class homes and Radio reproduction was improved to such a high quality that inroads were being made on the phonograph industry because the current model phonographs could not match the quality of Radio receivers, the manufacturers of talking machines got busy. In the past year we have noted revolutionary improvements in their reproducing systems. These improvements were forced by Radio!

As Radio sound reproduction has forced improvement of the phonograph, so will Radio picture transmission, perhaps, cause the motion picture photography to search for better means.

#### RADIO INDI-GEST

#### The Answer To George's "Indi-Gest Poets"

The Indi-Gest poets come and go, And so do people, don't you know? Folks sail the seas of life awhile— Then one by one pass on in file.

Sometimes, the moods are verses light, Sometimes, the sadder tones take flight; Now, life seems an airy bubble, Next, a weight with heavy trouble.

Whatever niche in the world we fill, Here's to the winds that blow no ill; In our homes may we find a friend In Radio Digest till the end.

#### RHEA SHELDON

So it seems that Rhea is back with us once more thanks to our friend George. The latter is batting 1,000 and has so many good poems on Indi-Gest's hook that we hardly know what to give you first. Guess we'll let you have a comical little bit of doggerel this time. Look below.

#### "You're Next," Exclaimed Barbara

West Milwaukee, in the merry month of June.
Mr. Indi: I am writing you to tell you that I much
enjoyed "Short Shaves." May I therefore be permitted
to ask "Barbara" a few questions? Thank you, dear.

Dear Barbara: Me and my boy friend Boniface are just dying to get the low down on some of them Radio sartists. Tell me, dear, does Radio Soprano Hulda Bandsaw honestly get paid for singing? How much does she get? And where does she get it? Answer me quick before I get one of my attacks.

And listen, who picks them covers of beautiful girls for this magazine? Wot a choice, wot a choice. They don't live long on them kind of jobs—the heart gives out. And say, do you think that bloomers will ever come back in style? I think they're just darling, providing you ain't too fat, it shows off the hips so.

What think of Conon Percival Eveningbreeze, the guy wot sings "Foreyer" from Station POON? Hencethy

wot sings "Forever" from Station POOH? Honestly, dear, I feel foolish all over when he sings that, really, I am thrilled to tears. They tell me he subscribes to the Homely Ladies Journal and is a bear at tatting. His wife, they say, runs the cozy cottage on Cottage

And then there is the Marked Tenor, who sings from And then there is the Marked Tenor, who sings from OBUNK, tell me, was he born in that one Buick town, Red Hank, N. J.? My dear, I would not believe it if you told me so. Say, who are them Eskimos from the Kicko Club? I suppose they play for ginger ale and sassyperunilla and get all blown up about it. How would you like them warm their cold feet on your back all then a polar night? all thru a polar night?

My girl friend wants to know whether it is proper for her to listen to a man singing in her kimono? Get me her to listen to a man singing in her kimono? Get me right, I mean listen to her Radio when she is in her kimono? Answer this quick, better death than dishonor. Don't you get tired listening to the Silvertown Cord Band? Tell them to send me some too—34 x 4 is the size. Well, I must stop now, it is time for my croquet lesson. Love and kisses from THE THIRD TROMBONE PLAYER

Barbara being busily engaged snooping around and sticking her nose in Radio artists' businesses, we pause to reply, in cadence, one-two-three-four: No, not for singing. Nothing much. Where do you guess? From her friends. Indi-Gest. We're agin 'em. Why think when it's so unusual for us. Tattlin, correction. Sure, it musta been Red Hank. Six months and they'd warm up. Okay, if he sings bass. No, more like a blowout. I challenge you to a Swedish match.

#### Mike Fright

He stood before the microphone; His heart was in his throat. He tried to sing in baritone, But blatted like a goat.

**GEORGE** 

#### Intermission Idiosyncrasies A. C. S. Announcing

will favor us with the Colonel's favorite after-dinner ballad, entitled, 'Oh Where Is My Wandering Joy Tonight'. We might state by way of explanation that the Colonel, who is spending a couple of weeks in New York, has three cases somewhere between Louisville and 33rd street. We're reasonably sorry for this situ-

#### Mary's Little Radio

Mary had a Radio
And it was very small,
And everywhere that Mary went
You heard it's gentle call.

She took it into school one day. The kids were wild with joy;
And when it got the teacher's goat, And when it got the touch.

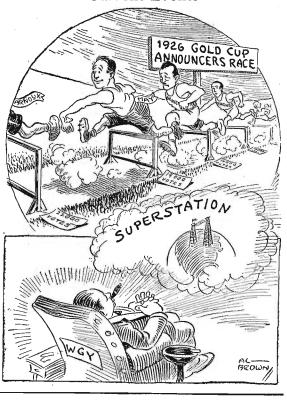
Did he butt in? Oh Boy!

JEAN McMICHEAL

Every one of my "listeners" who put on a bib in the morning to keep the juice of the hen fruit from leaving canary yellow polkadots on his chest or her bosom, will appreciate learning that "Interesting Information Concerning the Marketing of Eggs" was broadcast recently from KGO by Mr. H. G. Hamann.

INDI

#### Current Events



#### Condensed BY DIELECTRIC

No matter how sultry the night nor how much the static with it, there is one musical feature most any of of us are willing to listen to, a feature that strikes a vital blow at discouragement and gives four singers a chance to display their ability at team work. Male quartets can nearly always charm with a few solo airs introduced by the basso, if nothing else in their efforts cause one to applaud. One of the best male quartets heard in some time sang before the mike in the studio of Station WTAM, Cleveland, rendering songs familiar to our aunts and grandmothers and still appealing to the rest of us. These old numbers have a certain simplicity of melodic and harmonic content wholly enjoyable. There can be but one requirement—no "barber shop" chords.

Station WGY, Schenectady, is noted far over the globe for the excellence of transmission, Radarios and other features, placing the director in an enviable position of freedom from complaint. I don't intend to say that their programs are entirely free from censure from those who always have some excuse for finding fault, but that so far as your humble reviewer is con-cerned they satisfy in most particulars. Having followed carefully and with interest many varied programs from this station it seems appropriate to mention the character of dance music presented. While the selections presented are not unusual nor distinctive from other broadcasters one characteristic is pronounced, which is the near approach to perfection in rhythmic observance.

If you never heard that famous song before entitled fifteen men reclining upon the chest of a deceased partner—before, I mean—hearing it sung from the studio of Station WJAZ, Chicago, you have a genuinely authentic record of how it should be sung. counterpart to that, what more appropriate than that this station should be responsible for putting "on the ether" a pirate song in true, bloodthirsty, buccaneering style, which it did. Fame is won in many devious ways.

There is not a great deal that I can say, without forcing unduly the elasticity of a complimentary nature, about the programs arranged for Radio listeners to Station WRVA, Richmond, and shall confine comment to that portion of their programs devoted to the playing by the Hotel Richmond orchestra, as pleasing to listen to a care musical organization of its class o listen to as any musical organization of its class. That may not be saying much, or considerable.

Of the large number of Radio listeners delighting in azz there should be a large proportion of them tuned to that well-known broadcaster located in the "city of beans," Boston, under the call caption of WNAC. Here again we find all of the current jazz classics presented with true contorting swing and meeting the tastes of each devotee of the art. Tune to the Shepard Stores' station for jazz.

Station WJZ, New York, has sufficient power to compass many miles across the continent and possesses directors capable of judging the excellence of any feature—so far as it applies to the exigencies of broadcasting—and I wish to compliment them upon the uniform character of their offerings. Another phase of broadcasting, which is equally important, is the ability to transmit in a manner to win the encomiums of all listeners. This may not be said for the R. C. A. station. Its features are interrupted for the space of many seconds and the power is not uniform throughout an evening's entertainment. Why this condition should be allowed to continue is beyond my ken.

"Colonel Westfall Dombarton of Louisville, Kentucky, ation as well as the Colonel is a very close friend of ours.

ARTHUR C. STOWELL

## ALL OF RODEO TO BE **PUT ON AIR AT WOOD**

#### GRAND RAPIDS TO PICK UP ROUNDUP JULY 2 TO 6

Steer Wrestling, "Bronk" Riding and Wild Horse Races Are Booked by Michigan Station

GRAND RAPIDS, Mich.—Steer wrest-ling, "bronk" riding, wild horse races and what not in the line of sports from the wide open spaces will take the air July 2 to 6, from WOOD, station of the Grand Rapids Radio company on the Hotel Rowe here, when the roundup at the West Michigan State Fair Grounds is broadcast in entirety by direct wire.

On this occasion, believed to be the first complete broadcast of a rodeo, "Tex" Sherman, cowpuncher extraordinary, will be at the microphone. Mr. Sherman has undoubtedly witnessed more rodeos than any other living person, except perhaps "Wild Jim" Lynch, producer of the show and winner of thirteen world championships at

rodeo sports. Cash prizes aggregating \$10,000 will be

awarded to the winners of the various event, day and grand prizes. There to deawarded to the Winners of the Various event, day and grand prizes. There to defend their titles and compete for the prize money will be Patty Ryan, Bob Askin, Mike Hastings and his wife, Mrs. Fox Hastings, and other cowboy champions.

Many Thrills to Come

Mrs. Fox Hastings is the only lady

Mrs. Fox Hastings is the only lady wrestler of steers in the world. Incidentally, steer wrestling is considered the most hazardous of all rodeo sports. Her husband, Mike, is present holder of the

steer wrestling championship.

Another thrill will be given Radio lis-Lynch wrestles a steer from a motorcycle and also from the running board of a speeding automobile. Mr. Lynch is the originator of this event.

Probably the most amusing of all events is the wild horse race in which wild horses serve as the steeds for cowboys who first must saddle them. Inasmuch as a wild horse is not to be steered but goes where he pleases, luck plays a large part in de-

ciding the winning rider.

Maurice Wetzel, director of WOOD, who arranged for the roundup broadcast, is confident he has something brand new in the Michigan rodeo to amuse the general listening public.

#### Tongues Centuries Old Teach Mexican Indians

"Education by Radio" Is Policy of Broadcasters

MEXICO CITY, Mexico.—Languages that were thousands of years old when Cortez first conquered this country 400 years ago, are now being used in the broadcasting of instructive talks for the benefit of the many natives throughout the Mexican republic who still cling to an Indian language.

"Education by Radio" is the slogan for most Mexican stations, chief among the latter being CZE, here, the department of education broadcaster.

The government has distributed receiving sets to Indian will be a set of the set of the

ing sets to Indian villages and districts. From all the surrounding regions men, women and children tramp to the place where a local headman has charge of the government's "magic box which catches winged words from afar."

#### New Halifax, Nova Scotia, Station Is Proud of Self

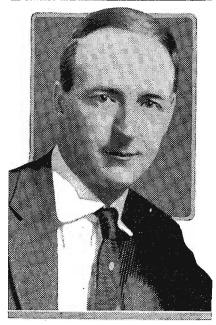
HALIFAX, N. S., Can.—Coming on the air late in May and being heard in Chicago in June, the new 100-watt transmitter here, CHNS, operated by the Halifax County Radio association, feels quite proud of itself. According to William Coates Borrett, director, CHNS is on the air Wednesday and Sunday evenings from 7 to 10 p.m. Atlantic standard time.

The new broadcaster, aided by local booster organizations, is aiming to show the world what Nova Scotia has in the way of talent and attractions for tourists and permanent residents. A wave length of 322.4 meters is employed.

#### WOR and WNYC Greet Byrd

NEW YORK.—Station WOR in conjunction with WNYC here, had the distinction of broadcasting the ceremony of welcome extended Lieutenant Commander Richard R. Byrd, which took place here, on Monday, June 21. Three states—New York, New Jersey and Virginia—participated in the welcome ceremonies and were represented by Governors Alfred E. Smith of New York, A. Harry Moore of New Jersey and Harry Flood Byrd of

#### W. G. HAY BECOMES HEAD OF WGN, WLIB



"Bill" (W. G.) Hay

DILL HAY, whose real initials are W. BILL HAY, whose real initials are W. G. and who has aptly been dubbed "the announcer who puts the English language in a dress suit," has been promoted to manager of WGN, the Chicago Tribune station, and WLIB, the Liberty Weekly broadcaster. And his friends, thousands of whom have twisted their dials to follow him from KFKX to WOK, thence to WGN and WLIB, are happy and congratulating him.

congratulating him.

Bill was born in Dumfries, Scotland. This wee town was put on the map years and years ago by Bobbie Burns, whose poetry tells of its beauties. Bill remained in Scotland long enough to acquire three outstanding characteristics, namely, the burr in his voice which tells of bonnie Scotland, the habit of smoking a pipe inveterately, and the love of the grand old game of golf. Concerning his voice, . . . well, everyone knows it. Concerning his pipe, we might remark that it is one of the most aromatic in Chicago. And concerning his golf we have nothing to

First Lived in Chicago

When Bill came to America about seventeen years ago, he went immediately to Chicago. He spent a considerable part of his time in the study of music, an experience which was destined to stand him in good stead in years to come.

Later Bill went to Hastings, Nebraska. Some time after this the Westinghouse Electric officials decided to open a high-power Radio station there and it was Bill who did the announcing. Now his musical experience proved immensely useful. He had been doing choral work and conducting the Hastings Lyric Glee club, and the Westinghouse officials decided that he was the man to take care of the programs of their new station. It was obvious shortly afterwards how well they had chosen. Night after night, some of the finest programs on the air emanated from KFKX, Hastings.

#### "BOSS" ERBSTEIN RAISES VET FUND

Will Stage Second Annual Radio Benefit for Forgotten Disabled Soldiers July 11

CHICAGO.—A great collection of Radio and stage stars will be gathered together on Sunday afternoon, July 11, at the Auditorium theater, here, when Charles E. Erbstein, former WTAS and WCEE owner and now announcing several programs over WLIB, stages his second annual Disabled Soldiers' benefit.

The program will consist of the leading

artists of the different local stations as well as the stars of the current attractions playing at that time in Chicago. The entire receipts of this gala performance will be distributed among the different government hospitals to buy smokes for the men who are still under treatment re-"No one," says the "boss" of the famous

"Willie-Tommie-Annie-Sammie" station, "can appreciate the countless representatives of American young manhood still lingering between life and death at the Speedway hospital. Men without arms and legs, gassed and demented soldiers patiently waiting for the end—those valiant heroes who fought and bled at Flanders front—are pretty well forgotten by us who are too busy to even give them an occasional thought."

The "boss" will be the master of cere-monies the day of the performance. The price of admission is \$2. It will, with the stars, be a \$25 show. The "boss" will have his famous Boss' Own orchestra, under the direction of Fred Hamm, especially imported for the occasion.

In less than three months the Hastings station and Bill Hay were known from coast to coast. Mail came from the four corners of the country, and Bill was the recipient of thousands of fan letters. The novelty of this station, hidden away in a small mid-western town, might have worn off but for the excellent quality of the programs. Bill maintained a high standard of entertainment. KFKX was one of the first stations to have a regular male and mixed quartet, and Bill was a member of each.

Has Been Doing Major Announcing Since coming to WGN and to WLIB, Bill has been announcing all the regular features. It was he who did the announcing when WGN broadcast "The Miracle." He possesses a voice that lends itself to any kind of program presented. It is clear and dignified and very pleasing to the ear. Perhaps there is no type of pro-gram which Bill announces more effectively than the classical. And that may be the reason why WGN's classical programs have so great a depth of dignity and distinction. But schedules of so long and varied a type as WGN and WLIB present daily require versatility, and Bill is perfectly at home in announcing entertainment of a lighter nature.

Some listeners know, and some don't, that Bill Hay and "Auld Sandy," WGN's amiable Scotch entertainer, are one and the same. Twice a week "Auld Sandy" appears before the microphone in a sketch of Caledonian songs and stories, given in the dialect of old Scotland. And these are all the more delightful because of the

# 150 STATIONS FORM **UNCONNECTED CHAIN**

N. G. BAKER, KTNT OWNER, TELLS OF ORGANIZATION

American Broadcasters Association Cooperate for Toll Broadcasting Minus Land Wire Inter-Connection

MUSCATINE, Ia.-A new broadcasting "chain" to be what is declared the largest tie-up of stations in America, is promised by Norman G. Baker, of this city, owner of KTNT and president of the American Broadcasters. The new link will include 50 or more broadcasters.

Stations are not to be connected physically by telephone wires or by Radio re-lay, Mr. Baker explains. He frowns at the wire link method and maintains that listeners become annoyed at hearing the same identical program at fifteen to twenty-two places on the dials of their receivers. Each station will broadcast its own program, and the firms taking advantage of this system of advertising will be announced at the same hour and date from all stations in the chain.

"The American Broadcasters association fought bitterly against monopolizing the dials with simultaneous broadcasting," Mr. Baker states, "and we would not care to place our chain in operation on any plan that would interfere with the pleasure of the listeners."

He plans to make Muscatine, Iowa, head-quarters for the organization.

#### WCCO Studies "Dead Spots" During Summer

Jansky and Sweet Hope to Perfect Transmission

MINNEAPOLIS .- The past month, July and August have been set aside by the engineers of the Gold Medal station, WCCO, for an intensive study of Radio transmission problems, with a view to still further improving the signal strength and quality of the Minneapolis-St. Paul broadcaster.

Radio broadcasting is still in its infancy, although most listeners seem to expect the infant to work with the efficiency of a fullgrown man. Many of its problems are still unsolved, and tremendous advances may be expected within the next few years, or even months. Every large station, even those using experimentally as much power as fifty kilowatts, is troubled with "dead spots" and with marked irregularities in reception. So much seems to depend on special geographical conditions that general rules for improving transmission have a very limited applica-

Prof. C. M. Jansky, Jr., of the electrical engineering department of the University of Minnesota, is devoting his full time during the three summer months to investigating the special transmission problems of WCCO, and Ray Sweet, chief engineer of the station, is directing the experimental work. A corps of observers throughout the northwest has been recruited, so that regular reception reports will be submitted from points where recertion so far has been unsatisfactory.

Roxy Joins "Captain Jinks" For Two Weeks as Devil Dog

NEW YORK.—Major Samuel L. Rothafel, U. S. M. C. R., has been ordered to report to the Marine barracks at Quantico, Virginia, for active duty and two weeks training. Major Rothafel will leave July training. Major Rothafel will leave July 2, and will return on July 19. Major Rothafel served in the regular Marine corps many many years ago on the U.S.S. Bancroft, before he came to New York and became prominently identified with

theatrical activities.
On January 20, 1925, he was sworn in as Major in the Marine Corps Reserve personally by the Major General Commandant John A. Lejeune.

McGee to Arctic Again

WISCASSET, Me.—Paul McGee, of Mattoon, Ill., who was Radio operator for the recent MacMillan-McDonald arctic expedition, is again the honored amateur to make the arctic trip, this time with the Mac Millan-Rawson expedition, which sailed from this port recently.

McGee perfected arrangements for twoway transmission and was on the arctic end of an interview which had been arranged with Commander E. F. McDonald of the S. S. Peary, while that ship was at Etah, Greenland.

WOOD to Be Remote Controlled HUDSONVILLE, Mich.-Construction of a remotely controlled transmitting station for WOOD, Grand Rapids broadcaster, is

McNAMEE AT POLO GOUNDS MIKE



When WEAF broadcasts the diamond sport from the Polo Grounds in New York, you when WEAF proadcasts the diamond sport from the Polo Grounds in New York, you can depend on it the Radio box looks something like this. Graham McNamee is addressing the "mike" at the right. Note the novel wire frame "fender" in front of it which keeps "Mac" from getting too close in exciting moments and blasting the microphone. To the left of McNamee with the headset on, is George McElrath, an "outside" operator for WEAF. McElrath in this picture bears a close resemblance to McNamee. At the extreme left is Howard Luttgens, another "cutside" operator. proceeding here.

# AN EVENING AT HOME WITH THE LISTENER IN IN CENTRAL TIME

Call	Location	Met.	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday						
AT9	Fort Bragg, N. C. Toronto, Ont	435 356.9	Silent Silent	5:00- 6:00 5:00- 6:00	Silent Silent	Silent Silent	Silent 9:00-10:00	7:00-8:55 9:00-10:00	Silent Silent						
CFCA CFCN CJCA	Calgary, Alta Edmonton, Can	356.9 434.5	11:00- 1:00 10:00-12:00	Silent 8:30- 9:30	Silent 8:30-10:30	Silent 8:30- 9:00	Silent 7:00- 9:00	9:00-10:00 10:00-12:00	Silent 9:00-12:00						
CKAC	Montreal, Que Toronto, Ont	516.9 410.7		12:45- 3:45 1:00- 2:55	Silent Silent	5:15- 9:30 5:00- 9:50	Silent Silent	6:30- 7:30 5:00- 6:00	Silent Silent						
CKCL	Terente, Ont Winnipeg, Man	356.9 384.4	6:00- 8:00 8:00-11:00	Silent 7:00-10:00	6:00-9:00 8:00-12:00	Silent Silent	Silent 7:30-11:00	Silent 8:30-11:00	Silent Silent						
CKY	Ottawa, Ont	434.5	6:30-11:30 Silent	Silent 9:24-10:54	Silent Silent	Silent 9:24-10:54	6:30-11:30 Silent	Silent Silent	Silent 9:24-10:54						
CYL	Mexico City, Mex	350	8:24 - 9:24	Silent	8:24-9:24	8:24- 9:24	8:24- 9:24	8:24- 9:24	8:24- 9:24						
KDKA KFAB	Pittsburgh, Pa Lincoln, Nebr	309.f 340.7	5:30 - 8:55 5:30 - 2:00	3:00-7:45 9:00-11:00	5:30-8:55 5:30-10:30	5:30-11:35 5:30-10:30	5:30-8:55 5:30-10:30	5:30-11:00 Silent	5:30-10:05 5:30-10:30						
KFDM KFH	Beaumont, Tex Wichita, Kan	315.6 267.7	Silent 7:00-8:00	8:00- 9:00 7:15- 8:15	Silent 7:00-8:00	8:00-10:00 7:00- 8:00	Silent 7:00-8:00	Silent 7:00-8:00	8:00-10:00 7:00- 8:00						
KFI KFJF	Los Angeles, Cal Okla. City, Okla	467 260.7	8:00-5:00 6:00-1:30	6:00- 1:00 2:30-11:45	8:00-1:00 6:00-10:45	8:00-1:00 8:00-10:45	8:00-1:00 6:00-10:45		8:00-1:00 6:00-10:45						
KFKX KFNF	Hastings, Nebr Shenandoah, Ia	288.3 263	5:30-6:30 7:00-12:00	Silent 2:30- 8:30	5:30-11:00 7:00-9:00	5:30- 8:00 7:00- 9:00	5:30-11:00 7:00- 9:00	5:30- 8:00 7:00- 9:00	5:30-11:00 7:00- 9:00						
KF0A	Seattle, Wash	454.3	11:30- 1:00	Silent	9:00-12:00	8:00-1:00	9:00-12:00 8:30- 1:00	Silent 8:30- 2:00	8:00- 1:00 8:30- 2:00						
KFON KFQB	Long Beach, Cal Fort Worth, Tex.	232.4 508.2	8:30- 2:00 8:30- 9:30	8:30-12:00 3:00-8:30	8:30- 2:00 8:30- 9:30	8:30- 1:00 8:30- 9:30	Silent	8:30- 9:30	8:30-9:30						
KFVE	St. Louis, Mo Univ'ty City, Mo	545.1 240	7:45- 8:45 9:15-10:15	9:15-10:15 Silent	8:00- 9:00 9:15-10:15	6:30 - 7:30 9:15-10:15	9:15-10:15 9:15-10:15	Silent	9:30-10:30 9:15-10:15						
KFWA KFWB	Ogden, Utah Hollywood, Calif	260.7 252		11:00- 1:00	10:00-12:00 8:30- 1:00	Silent 8:30- 1:00	8:30-12:00 8:30-1:00	8:30-1:00	10:00-12:00 8:30- 1:00						
KFWI KFXF	San Francisco, Cal Colorado Springs	226 250	Silent 10:00-12:00	10:00- 2:00 Silent	9:30-11:30	Silent 9:30-11:30	Silent	12:00-2:00 10:00-12:00	10:00-12:00						
KGO KGW	Oakland, Calif Portland, Ore	361.2 491.5	10:10- 2:30 8:00- 2:00	9:45-10:45 9:30-12:00	10:05-12:30 8:00- 2:00	10:00 - 2:00 8:00 - 2:00	Silent 8:00- 1:00	10:00- 2:00 8:00- 2:00	Silent 8:00- 2:00						
KHJ	Los Angeles, Cal Sintipok, Minn	405.2 421	9:30-12:00 Silent	6:00-12:00 4:00- 5:00	Silent 9:00-10:00	9:45-12:00 Silent	10:00-12:30 9:00-10:00	10:00-12:00 Silent	10:00-12:00 9:00-10:00						
KIAF KJR	Seattle, Wash	384.4	10:30-12:00 8:00- 9:00	7:00-12:30	9:00-12:00 Silent	9:00-12:00 8:00-11:59		9:00- 2:00 8:00- 9:00							
KLDS KLX	Independence Mo Oakland, Calif	508.2	9:00- 9:30	Silent 4:00- 5:30	8:30-12:00	9:00-9:30 6:00-11:00	8:30-12:30 6:00-11:00	9:00-9:30 6:00-11:00	8:30-12:30 6:00-11:00						
KMA KMMJ	Shenandoah, Ia Clay Center, Nebr	252 229	6:00-11:00 8:00-9:00	8:45- 9:45	8:00-9:00	8:00- 9:00	Silent	8:00-9:00	8:00- 9:00 6:30-12:00						
KMOX KNX	St. Louis, Mo Hollywood, Cal	336.9	6:00-11:00 8:00-4:00	9:00-10:00 8:30-12:30	6:00-11:00 8:30- 2:00	6:30-12:00 8:30- 2:00	6:30-12:00 8:30- 2:00	8:30-2:00	8:30- 2:00						
KOA KO1L	Denver, Colo Council Bluffs, Ia	322.4	7:00-3:00	7:30-9:45	7:30-11:15 6:00-12:00	7:30-8:30 6:00-12:00			7:30-10:00						
KPO KPRC	San Francisco, Cal Houston, Texas		8:30-2:00 7:30-11:00	8:00-12:00	8:30-1:00 6:30-10:30	8:30-1:00 7:30-10:00	8:30-1:00	7:30-10:00	8:30- 2:00 Silent						
KPSN KSD	Pasadena, Calif St. Louis, Mo	315.6 545.1		10:45-11:45	Silent	10:00-11:00 6:00-9:30	S1lent 6:00- 8:00	10:00-11:00 7:00-9:00							
KSL KSO	Salt Lake City, U. Clarinda, Ia	299.8	9:00-12:00 Silent	8:30-11:00 Silent	8:00-12:00 7:00-8:00	7:00-9:00 8:00-11:30	8:30-12:00 7:00-8:30	8:30-12:00 7:00-9:00	8:30-11:00 7:00-8:30						
KTAB KTBI	Oakland, Calif Los Angeles, Cal	240	Silent Silent	9:45-11:15 9:15-11:30	10:00-12:00 Silent	10:00-12:00 10:00-11:00	10:00-12:00	10:00-12:00 10:00-11:00	10:00-12:00 Silent						
KTCL	Seattle, Wash	305.9	Silent	8:10-11:10		10:00-11:00 Silent	Silent	Silent 9:00-10:30	9:00-2:00						
KTHS KTW	Hot Springs, Ark. Seattle, Wash		9:00-11:15 Silent	9:00-11:30	Silent	Silent	Silent	8:00-9:30 8:00-9:30	Silent						
KWKH KWWG	Shreveport, La Brownsville, Tex	278	9:00-12:00 6:00-7:00	Silent	10:00-11:30 8:30- 9:30	9:00-12:00 6:00-7:00	6:00-7:00	6:00-7:00	6:00-7:00						
KYW NAA	Chicago, III Radio, Va	434.5	5:30-11:00 Silent	Silent	Silent 6:45- 7:00	5:30-10:30 7:30-8:30	5:30-11:00 Silent	Silent	Silent						
PWX WADC	Havana, Cuba Akron, Ohio	258	7:30-10:00 5:30-6:30	7:00- 9:15 5:30- 6:30	5:30- 1:00		5:30- 6:30	Silent 5:30-9:00							
WAHG WAIU	Richmond, N. Y Columbus, Ohio	315.6 293.9	10:00-12:00 8:15-10:00	Silent 2:00- 3:00	5:30-12:00 5:00-10:30	Silent 5:00-11:00			6:00-9:00 5:00-11:00						
WAMD	Minneapolis, Minn Baltimore, Md		6:15-10:30 Silent	6:15-10:30 6:30- 7:30	7:00-12:00 5:30-10:00	Silent 5:30-10:00	7:00-12:00 Silent	6:15-12:00 5:30-10:00							
WBAP WBAR	Fort Worth, Tex Sisiht, Wis	475.9	7:30-11:00 Silent		7:30-12:00	7:30-11:00	Silent 8:00-9:00	7:30-12:00 7:30-8:30							
WBBM	Chicago, Ill Statenisland, N.Y.	226	7:00- 1:00	3:00- 1:00	5:00- 6:00 6:00- 7:00	7:00-11:00	7:00-1:00 Silent		7:00-0:00						
WBBR	Chicago, III	266	8:00-12:00	4:00-11:00	Silent	8:00-12:00	7:00-11:00	8:00-1:00	8:00-12:00						
WBZ	Springfield, Mass. Pittsburgh, Pa	461.3	5:15- 8:00 4:30- 7:30	3:00- 8:15	6:00-10:05			6:00-10:00							
WCAP	Washington, D.C. Philadelphia, Pa	278	Silent	3:00- 7:45 3:00- 9:00	5:30- 9:00	4:30- 9:30	5:30-10:00	4:30-10:30	4:45- 9:30						
WCBD WCC0	Zion, 111 MinnSt.P., Minn.	344.6		7:00-9:30 4:10-10:35	6:15-10:00		6:00-12:30		6:15-11:05						
WC0A WCX	Pensacola, Fla Detroit, Mich	222 516.9	Silent 5:00- 6:00	Silent 6:15-7:15	7:00- 9:00 5:00- 8:00		7:00- 9:00 5:00- 8:00		7:00- 9:00 5:00- 9:00						
WDAF WDWF	Kansas City, Mo	365.6	6:00~ 1:00			6:00-1:00 5:45-6:00									
WEAF WEAN	New York, N.Y Providence, R.I	491.5	4:00-10:00												
WEA0 WEBH	Columbus, Ohio		Silent	Silent	Silent	6:00-8:00	1	1	1						
WEBJ	New York, N.Y Boston, Mass	272.6	Silent	Silent 4:00-8:15	Silent	6:00-8:00	6:00-8:00	Silent	6:00-7:00						
WEEL	Chicago, III	265.3	5:00- 1:00	1:00-11:00	Silent	5:00- 9:00	6:00-1:00		5:00-1:00						
WFAA WFBH	Dallas, Texas New York, N.Y	272.6	9:30-12:00	3:00- 6:00	9:30-12:00	0:30-12:00	9:30-12:00	9:30-12:00	9:30-12:00						
WFI	Philadelphia, Pa. Evansville, Ind	. 236.1	Silent	Silent	Silent	7:15-10:00	Silent	Slient	7:00- 8:00						
WGBS	Now York, N.Y Fulford, Fla	278	5:30-12:00	8:30-11:00	5:30-12:00	5:30-12:00	5:30-12:00	5:30-12:00	5:30-12:00						
WGCP WGES	New York, N.Y Chicago, III	250	6:30-10:00 4:00-12:00	4:00-12:00	Silent	4:00-12:00		4:00-12:00	4:00-12:00						
WGHB WGHP	Clearwater, Fla Detroit; Mich	. 266 . 270	Silent Silent	Silent Silent	7:30- 9:00 5:00-12:00	5:00-12:00	7:30-9:00 5:00-12:00	Silent 5:00-12:00							
W G N W G R	Chicago, III Buffale, N. Y	302.8	5:45-10:00 Silent	4:00-8:15	4:30-10:00		5:45-11:30 4:30-10:00	5:45-10:00 4:30-8:00	5:45-10:00 4:30-10:00						
WGY WHAD	Schenectady, N.Y. Milwaukee, Wis	379.5 275.1	5:30- 9:30 Silent	2:30- 9:00 3:15- 4:15	4:30-8:00 6:15-10:00	4:30-8:30 6:15-7:00	4:30-8:00 6:15-12:30	0 4:30-10:30 0 6:15-7:00	4:30-10:30 6:15-10:00						
WHAR WHAS	AtlanticCity, N.J Louisville, Ky					5:30 - 7:00 7:30 - 9:30	Silent	5:30-10:00 7:30-9:00							
WHAZ WHB	Trey, N.Y Kansas City, Mo.	379.5	Silent	Silent 8:00-1:00	8:00-11:00	Silent	Silent	Sllent	Sllent						
WHN WHO	New York, N.Y Des Moines, Ia	. 361.2		1:00-10:30	0 4:30-10:3	0 4:00-11:0	0 4:00-11:0	0 4:00-11:0	0 4:00-11:00						
WHT WIBO	Chicago, III	399.8		11:00 - 9:30	Sllent	6:00-12:0 5:00-1:0	0 6:00-12:0	0 6:00-12:0	0 6:00-12:00						
WIP WJAR	Philadelphia, Pa. Providence, R. L.	508.2	6:15-10:0		5 4:05 - 6:0	0 4:05-9:3	0 4:05-6:0	0 4:05-10:0	0 4:05-6:00						
WJAS WJAX	Pittsburgh, Pa Jacksonville, Fla.	. 275.3	8:00-11:00	Silent	6:00-11:0	0 6:00-11:0	0 6:00- 1:0	0 6:00-11:0	0 6:00-11:00						
WJAZ	Chicago, III	329.5	8:00-12:00	6:00-8:0	Silent	8:00-11:0	8:00-11:0	8:00-11:0	8:00-11:00						
MIL	Mooseheart, III Pontiae, Mich	. 516.9	6:00-11:30	Silent	6:00-11:3		6:00-11:0	0 6:00-10:0	0 6:00- 9:30						
WIZ	New Yerk, N.Y San Juan, P. R	. 340.7	Silent	Silent	6:30- 8:0	Silent	6:00- 8:0	0 Silent	6:00- 8:00						
WKRC	Cincinnati, Ohio Chicago, III	. 302.8	6:00-11:3	0 4:00- 5:1	5 Silent	6:00-11:3	6:00-11:3	0 6:00-11:3	0 6:00-11:30						
WLIT WLS	Philadelphia, Pa. Chicago, Ill	344.6	6:30-11:0	0 5:00- 6:5	Silent	5:40- 6:5	5 5:40-12:0	0 5:40-6:5	5   5:40-10:00						
WLWL	Cincinnati, Ohio.			3:00-8:3		-	6:00-11:0 Silent	6:00-12:1							
WMAK	Lockport, N.Y	- 265.3	4:15- 9:0	0 5:30- 6:3			5 5:30- 8:0	0 5:15-6:0	0 Silent						
WMAZ	Macon, Ga	260.7	7 Silent	Silent	9:00-10:0	0 7:00-8:0	0 10:00-11:0 0 6:00-10:0	0 9:00-10:0	0 7:00-10:00						
WMBF	Miami Beach, Fla	384.4	6:00-12:0	0 6:00-12:0	0 6:00-12:0	0 6:00-12:0	0 6:00-12:0		0 6:00-12:00						
WMCA		340.	7:00-11:0	0 5:00-8:0		0 6:00-10:0	0 7:00-10:0	0 7:00-10:0	0 6:00-9:45						
WNAC	New York, N.Y	526	5:00- 8:3	0 7:00- 9:0	0 5:35-8:3	0 5:10-9:3	0 5:30-8:3	0 5:30- 8:3	0 5:30-8:30						
WOAL		394 n 282.		7:30-10:3 9:00-10:0	0 9:00-1:3		0 9:00-10:0	0 9:00-10:0							
WOAW	//Omaha, Nobr	526	6:00-12:0		0 6:00-11:0		0 Silent Silent	6:00- 1:0 Silent	0 6:00-11:15 Silent						
WOC	Davenport, Iowa. Ames, Ia	483.	6 9:00-10:0	0 6:30-11:3 Silent		6:00-10:0 Silent	0 6:00-10:3 Sllent	0 6:00-12:0 7:05-8:3	0 7:30-11:00 0 Silent						
WOK	Homewood, III Philadelphia, Pa	217. 508.	3 9:00-12:0	0 6:00-12:0 0 4:00-5:0	0 Silent	9:00-12:3	0 9:00-12:3 0 5:30- 9:3	0 9:00-12:3 0 5:30-6:3	0 9:00-12:30 0 5:30- 9:30						
₩000 ₩00		1, 242	9:00-12:0	0 Silent	9:00-1:0		0 9:00-12:0		9:00-12:00						
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Call	Location	Met.	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
WOR	Newark, N. J	405.2	4:15-10:00	Silent	4:15-10:00	4:15- 6:00	4:15-9:30	4:15- 6:20	4:15- 6:00
WORD	Batavia, III	275	6:00-9:25	1:30-9:00	Silent	6:00-11:45	6:00-11:00	7:00- 9:00	6:00-11:45
wos	JeffersonCity, Mo.	440.9	Silent	5:00-8:30	8:00-10:00	Silent	8:00-10:00	Silent	8:00-10:00
WPG	Atlantic City, N.J.	299.8	4:45-10:00	1:15-9:00	4:45-10:00	4:45-10:00	Silent	4:45-10:00	4:45-10:00
W.Q.J	Chicago, III	447.5	6:00-2:00	2:00-9:00	Silent	6:00-1:00	6:00-1:00	6:00-1:00	6:00-1:00
WRC	Washington, D.C.	468.5	6:00-11:00	Silent	Silent	6:00-10:30	Silent	6:00-11:30	Silent
WREO	Lansing, Mich	285.5	5:00-11:00	6:00-7:00	5:00-6:00	5:00-8:15	5:00- 6:00	5:30-11:30	Silent
WRVA	Richmond, Va	256	Silent	Silent	7:00-10:00	10:00-12:00	7:00-10:00	7:00-10:00	6:00-10:00
WRW	Tarrytown, N.Y	273	6:00-9:30	6:00-9:30	7:00-9:30	7:00-9:30	7:00- 9:30	7:00-9:30	7:00-9:30
WSAI	Cincinnati, Ohio	325.9	7:00-11:00	6:45- 8:45	9:00-11:00	6:00-9:00	6:00-10:00	6:15-9:00	Silent
WSB	Atlanta, Ga	428.3	8:00-12:00	7:30- 9:15	8:00-12:00	8:00-12:00	10:45-12:00	8:00-12:00	8:00-12:00
WSBC	Chicago, III	209.7	5:30-3:00	5:30-12:00	5:30-6:00	5:30-12:00	5:30-12:00	5:30-12:00	5:30-12:00
WSM	Nashville, Tenn	282.2	7:00-11:00	7:30-9:00	7:00-9:00	7:45- 9:00	7:00-11:00	Silent	7:00-11:00
WSMB	New Orleans, La	319	9:30-11:30	Silent	9:30-11:30	Silent	9:30-11:30	9:30-11:30	Silent
WSUI	lowa City, lowa	483.6	Silent	9:15- 9:45	7:30 - 8:30	Silent	7:45-8:45	Silent	Silent
wsws	Chicago, III	275.1	5:00-10:00	5:00-10:00	Silent	5:00-10:00	5:00-10:00	5:00-11:00	5:00-11:00
WTAG	Worcester, Mass	268	Silent	2:00-8:15	5:00-9:00	5:45-9:00	5:40-9:00	6:00-9:00	
WTAM	Cleveland, Ohio	389.4	5:00-11:00	Silent	5:00-12:00	5:00-6:00			5:00-6:00
WTIC	Hartford, Conn	475.9	5:30-11:00	4:00-9:30	5:50-11:00	Silent	5:30-9:30		
wwi	Detroit Mich	352.7	Silent	1:00-8:15	5:00-9:00	5:00-7:00	5:00-9:00	5:00-11:30	5:00-9:00

#### STATIONS IN ORDER OF WAVE LENGTHS

| Meters Call |
|-------------|-------------|-------------|-------------|-------------|-------------|
| 209.7 WSBC  | 263 KFNF    | 282.8 WSM   | 336.9 WJAX  | 394.5 WOAI  | 467 KFI     |
| 217.3 WOK   | 265.6 WBCN  | 285.5 WREO  | 340.7 KFAB  | 399.8 WHAS  | 468.5 WCAP  |
| 222 WCOA    | 265.6 WENR  | 288.3 KFKX  | 340.7 WKAQ  | 399.8 WHT   | 468.5 WRC   |
| 226 KFWI    | 265.6 WGHB  | 288.3 WLWL  | 340.7 WMCA  | 400 PWX     | 475.9 WBAP  |
| 226 WBBM    | 265.6 WMAK  | 293.9 KTBI  | 344.6 WCBD  | 405.2 KHJ   | 475.9 WTIC  |
| 226 WIBO    | 268 KFH     | 293.9 WAIU  | 344.6 WLS   | 405.2 WOR   | 475.9 WFAA  |
| 229 KMMJ    | 268 WTAG    | 293.9 WEAO  | 348.6 WEEI  | 406 WBAR    | 480 CYL     |
| 232.4 KFON  | 270.1 WEAN  | 296.9 KPRC  | 350 CZE     | 410.7 CKAC  | 483.6 WOC   |
| 236.1 WGBF  | 270.1 WGHP  | 299.8 KSL   | 352.7 WWJ   | 416.4 WCCO  | 483.6 WSUI  |
| 240 KFVE    | 270.1 WOI   | 299.8 WPG   | 356.9 CFCA  | 421 KIAF    | 491.5 KGW   |
| 240 KTAB    | 272.6 WBBR  | 302.8 WGN   | 356.9 CKCL  | 422.3 WLW   | 491.5 WEAF  |
| 240 WOAX    | 272.6 WEBJ  | 302.8 WLIB  | 356.9 CKNC  | 422.3 WKRC  | 499.7 WMC   |
| 242 KSO     | 272.6 WFBH  | 305.9 KTCL  | 361.2 KGO   | 428.3 WSB   | 502.8 KFQB  |
| 242 WOOD    | 273 WRW     | 305.9 WJAR  | 361.2 WHN   | 428.3 KPO   | 508.2 KLX   |
| 244 WAMD    |             | 309.1 KDKA  | 365.6 WDAF  | 434.5 CNRO  | 508.2 WIP   |
| 246  WBAL   | 275.1 WHAR  |             | 365.6 WHB   | 434.5 CFCN  | 508.2 WOO   |
| 250 KFXF    | 275.1 WORD  | 315.6 KPSN  | 370.2 WEBH  | 434.5 NAA   | 516.9 CJCA  |
| 250 WGES    |             | 315.6 WAHG  | 370.2 WJJD  | 435 AT9     | 516.9 WCX   |
| 250 WMBB    |             | 315.6 WGBS  | 374.8 KTHS  | 440.9 KLDS  | 516.9 WJR   |
| 252 KFWB    | 278 KOIL    | 319 WGR     | 379.5 WGY   | 440.9 WDWF  | 526 WHO     |
| 252 KMA     | 278 KWWG    |             | 379.5 WHAZ  | 440.9 WOS   | 526 WNYC    |
| 252 WGCP    |             | 322.4 KOA   | 384.4 CKY   | 447.5 WMAQ  | 526 WOAW    |
| 256 WRVA    | 278 WGBU    | 325.9 WSAI  | 384.4 KJR   | 447.5 WQJ   | 535.4 KYW   |
| 258 WADC    |             | 329.5 KWKH  | 384.4 WMBF  | 454.3 KFOA  | 545.1 KFUO  |
| 260.7 KFWA  |             |             | 389.4 WTAM  | 454.3 WJZ   | 545.1 KSD   |
| 260.7 KFJF  |             | 333.1 WBZ   | 394.5 WFI   | 455 KTW     |             |
| 260 7 WMAZ  | 1282 8 WOAN | 1336.9 KNX  | 394.5 WLIT  | 1461.3 WCAE | 1           |

#### SHORT WAVES

. By Marcella 🗕

(Continued from page 2) the air from WLIB. He is announcing Fred Hamm's orchestra and is the same as ever—ha, ha.

The Ray-O-Vac Twins, "M. J.," made their last appearance for a month at WFAA, Dallas, on June 26. They are on a vacation, but will be back touring the stations again in August. Yes, both are married. Both sing, but Russell Wildey is the pianist. Both are natives of Chicago, still young, of medium build, and have dark complexions and hair.

To forestall many questions, I will give you the news about "Little" Jack Little, who is now on vacation until October. His last appearance on the air this summer was on June 7, at WSAI, where he helped with a dedication program. He will spend his summer in rehearsal of a larger repertoire of programs and in trying to write several song hits. For the benefit of "Betty," I will repeat the Bertillon of Jack: 5 feet 3 inches up, little in weight as well as name, good looking, 25 years old or maybe 26 by now, happily married, birthplace Waterloo, Iowa.

Ralph Emerson, popular WLS organist, caused lots of trouble when he played that organ duet marriage sketch with Grace Clark. No, "E. B. L.," "F. L. S." and "Mrs. B. M. V.," that was not a real ceremony. He and Grace just did it to entertain you. The next stunt, which they may have done by the time this reaches your hands, is a divorce sketch. Ralph is a died-in-the-wool bachelor of 30 years, thus differing from Ford and Glenn who are both benedicts. Ralph is blue eyed, inclined to be blond, 185 pounds in weight and 5 feet 10 inches tall. Incidentally, I have here an announcement of the marriage of Miss Helen McLeod of Missoula, Montana, to David Dudley Richards, who happens to be assistant director of WLS and announces ofttimes when Announcer Donald Malin is not on duty.

Speaking of marriages and the usual run of things, William C. Stoess, who announces at WLW with Louis J. Johnen, became a father several weeks ago. His wife was formerly studio accompanist at the Crosley station.

All sorts of news, yes indeed. For instance, "Roxy" Rothafel, whose Capitol theater announcing and "gang's" program over WEAF made him famous, is to spend the first two weeks in July at the training camp of the Marines at Quantico, Va. Roxy is now a major in the U. S. Marine Corps Reserve. During the Boxer rebellion in China he served for seven years in the Marines with rank of Corporal.

Clyde Hager, I repeat for "Wilma," is there!

Calif. Glad, Wilma, that you have discovered the hiding place of Gene Rouse. "W. S." hasn't been so fortunate. To him I will advise tuning between 340 and 400 meters, east of Omaha, at a large station.

Herbie Mintz has been handling the afternoon programs at WENR, Chicago, until recently, but now is on his way to Europe with his wife for a tour of the old country. Tune in England, "Lillian." The other announcer you hear at WJAZ is probably Ralph H. G. Mathews. The organ concerts of the Uptown theater broadcast by WEBH are announced by Carl F. Strodel.

Why "Alice," if you've got it as bad as your letter indicates, you'd better hike over to WGR and look up "Pat and Moe." Really, Pat is very good looking and young, according to his picture, and I imagine Moe likewise is attractive. And then—both are single! Pat or Kenneth Fickett is WGR's chief announcer. He's tall, very blond, blue eyed, handsome featured, has a light complexion, is square shouldered, and wears his clothes well. His native home is Rochester, N. Y. Moe or Lester Erlenbach, director of Erlenbach orchestras, is director in charge of the afternoon program broadcast from WGR under the auspices of the Buffalo Radio Trades association. He is curly locked, darker in complexion than Pat, and musical to his finger tips. His native home is Buffalo. The "Pat and Moe" sketch you have heard is also known by the name of "The Journeyman Plumbers." It is a chatty song and fun making recess in an otherwise classical program. The new announcer you have observed is Mr. Hardy, second announcer, whose native home is in Virginia. He also spent six years in Boston, prior to moving to Buffalo, hence his "cutest little accent" which you admire. Mr. Hardy is rather short, has dark hair and blue eyes, and weighs about 140 pounds. There you are. Now visit the studio.

Facts regarding Miss Ruth Paterson, of KPRC, are earnestly requested by "Harold" from Indiana. Harold, I'm sure you'd fall in love with her disposition and beauty once you saw her. Ruth is one of a large family of natural blondes from Chicago. Has the gloriously full and resonant soprano voice so essential to concert work and church soloist that she is. She smiles all the time, drives a high powered car, and for a hobby spends her spare time at the bayshore motoring and swimming. She loves to dress in white, which becomes her so perfectly, and her wardrobe includes some of the most spotlessly white apparel imaginable—sport suits, evening gowns and the like, all of moonlight, shimmering materials. But her eyes are NOT blue, instead they are a most wonderful light brown, a shade so unusual for a blonde type. As for her age, I dare not guess such sacred things, but will say that she is past the flapper age and not yet a bachelor maid. Suthere!

(Continued on page 27)

## FISHERMEN AND ALL SPORT FANS—READ

HERE'S SUGGESTED RATION LIST FOR THE BIG TRIP

Also WQJ's Helen Harrington Downing Tells You How to Fry
Three Good Things

By Helen Harrington Downing
Director of Day Programs at WQJ
THE season is fast approaching for
the camper to start on the annual the camper to start on the annual summer tour and camping trip. Sky and earth both conspire to lure the lover of outdoor into the open, and many plans are now being made for motor trips. Some few people prefer to stop at the hotels along the way, but many enjoy going in a well-equipped touring car with camping outfit and the necessary food supplies to camp near a lake for a day or two.

Of course, if women are included in the camping party, the planning of the lunch is left to them, but not infrequently four or five men like to go on a fishing trip by themselves and try their own hand at preparing meals. When this is the case a few suggestions are usually appreciated in making the list of necessary supplies. Following the several recipes I am going to recommend, is a suggested two weeks' food supply for four people

food supply for four people.
Griddle cakes baked in the open seem to have particularly fine flavor, as well as hamburger meat cakes with onion, so here are recipes for both:

are recipes for both:

Griddle Cakes

Required: 3 cups flour, 3 level teaspoons Calumet baking powder, ½ level teaspoon salt, ¼ cup sugar, 2 cups milk, 2 eggs, 2 tablespoons melted butter.

Method: Sift flour, measure, then sift three times together with the baking powder, salt and sugar. Beat egg, add milk, and pour slowly into first mixture. Beat thoroughly, and add butter. Drop by spoonfuls on a greased hot griddle. Bake on other side. Serve with butter and maple syrup.

Hamburger Meat Surprises

Hamburger Meat Surprises
Required: 2 pounds hamburger, 4
tablespoons water, 4 level teaspoons Calumet baking powder, 1 small onion (cut

#### CONGRESSWOMEN DEBATE AT WRC



Not long ago women were not thought of in terms of the senate or house of representatives. Now—well, here are Mary E. Norton (left), of N. J., and Edith N. Rogers, of Mass., both members of the house of representatives, as they appeared prior to a political debate at Station WRC, Washington.

into flat cakes. Cook until brown in two figuring the amount of food needed by or three tablespoons of fat in a hot fry-

Fried Biscuits

Required: 2 cups flour, 2 level teaspoons Calumet baking powder, ½ level teaspoon salt, 2 tablespoons shortening, % cup milk.

Method: Sift flour and then measure.

Add salt and baking powder and sift all together three times. Mix in shortening with a knife or fingers. Add milk gradually. Mix lightly. Roll out ½-inch thick on floured board and cut into rolls. Have on housed board and cut into rolls. Have griddle or frying pan well greased and hot. Then lower heat. Brown on one side, then turn and brown on the other. Time for cooking, 7 to 10 minutes. Makes fourteen biscuits.

Two Weeks' Food Supply for Four Hamburger Meat Surprises

Required: 2 pounds hamburger, 4 ablespoons water, 4 level teaspoons Caluet baking powder, 1 small onion (cut ne).

Method: Mix all together and shape

Two Weeks' Food supply for Four Pour

The following list is offered as a help in shopping to those persons wishing to assemble rations suitable for two weeks' food supply for four people. The same list can, of course, be used as a basis for

figuring the amount of food needed by two, six, eight or more people on a one, two, three, four or more week's trip. Unless one is going into the wilderness, however, certain of the supplies can be replenished from week to week:

Dry Staple Foods: 10 lbs. flour, 10 lbs. sugar, 1 box salt, 1 box pepper, 2 lbs. coffee, ½ lb. tea, 2 lbs. powdered milk, 1 lb. Calumet baking powder, ½ lb. cocoa, 1 pkg. powdered sugar, 1 pkg. minute tapioca.

Cereals: 2 pkg, corn flakes, 1 pkg shredded wheat.

shredded wheat.

Dried Fruits and Vegetables: 1 pkg. raisins, 1 lb. prunes, 1 lb. apricots, 2 envelopes each of dehydrated spinach, beets, carrots, potatoes, and onions.

Meat: Fresh meat for the first few days, 1 side of bacon, 5 to 6 lbs. hambutt end, chipped beef, wieners, 1 baked ham, 2½-lb. pail lard.

Butter and Eggs: Obtain fresh at last point possible.

Canned Foods: 6 pts. condensed milk

Canned Foods: 6 pts condensed milk,

6 cans tomato soup, 6 cans corned beef hash, 6 cans baked beans, 6 cans chili con carne, 2 cans tomatoes, 1 bottle prepared mustard, 1 pt. pickles, 2 bottles chili sauce, 6 cans peas, 6 cans of corn, etc., 6 cans fruit.

Fresh Vegetables and Fruits: Potatoes, cabbage, lettuce, lemons, oranges, apples, bananas, and many other fresh fruits and vegetables that will keep for first few days. Some, such as cabbage, will keep

for two weeks if iced.

Miscellaneous: 1 pt. vinegar, 2 pkgs.
cookies, 12 glasses jam and jelly, 1 qt.
homemade (or bottled) salad dressing, 2
lbs. cheese, 2 lbs. crackers, bread and

And Don't Forget: Matches, candles, paper plates, paper napkins, paper drink-

#### The Reader's View

More Plowers for the Mired Hand

More Flowers for the Hired Hand
Down there in the great open spaces of
Texas he stands. Modest, retiring, cringing that he is, he doffs slowly his tengallon hat, gazes sheepishly into it, and
thinks, "would that I could crawl into
your crown and so hide forever from the
admiring eyes of the world. My lot is
most unfair"

most unfair."

His watch tells him it is program time. His watch tells him it is program time. This brings a heavy sigh as he realizes he must again leave his beloved open spaces and submit to the ogling of mankind. He mounts the steps of the Star-Telegram plant. Just as he suspected, ogling eyes are waiting to devour him in front of the WBAP studio. The young Texan drops to his haunches, grasps a flannel cloth kept handily by for no other purpose, and starts massaging the floor. purpose, and starts massaging the floor, slowly working his way into the studio, janitor like.

Yes, he must take the air. There is no other course or recourse. The studio clock demands it. He slinks to the microphone, snarling noiselessly. At first his voice doesn't come, but it's so used to it that finally it does, and the young Texan

"Please, if you do not mind, I will announce the program. And about that contest—I withdraw my name as a candidate—do you all hear me—you in Canada
—you in Hawaii—you in Kansas—do you
all understand—I withdraw my name in
this contest to pick the most popular announcer in the world. If you vote for me

(Continued on page 26)

#### WOMEN'S PROGRAMS INDEX

Miss Kitty.

12 n. 11 10 8 8
WEAO (293.9m-1020kc), Housekeepers' half hour.
WEAR (389.4m-770kc), Home service talk.
WHT (399.8m-730kc) Women's club, Joan Sargent.
WQJ (447.5m-670kc), Home Economies program,
WSWS (275.8m-1090kc), Style shop.

12:30 p.m. 11:30 10:30 9:30 8:30
WEBH (370.2m-810kc), Fashlon and household talks. 1:45 12:45 11:45 10:45 KGW (491.5m-610ke), Household helps. 

Tuesday

Atlantic Eastern Central Mountain Pacific
10 a.m. 9 8 7 6
WIP (508.2m-590kc), Menu, Anna Scott. 10:30 9:30 8:30 7:30 WWJ (352.7m-850kc), Tonight's dinner. 10:45 9:45 8:45 7:45 6:45 WTAG (267.7m-1120kc), Talk to mothers. if 10 9 8 7 KDKA (309.1m-970ke), Domestic Science. Arts for the Housewife.

the Housewife.

12 n. 10 9 8

WEAO (293.9m-1020kc), Housekeepers' half hour.
WEAR (389.4m-770kc), Home service talk.
WHT (399.8m-750kc), Women's club, Jean Sargent.
WMCA (340.7m-880kc), Home Makers' club.
WOJ (447.5m-670kc), Home economics.

12.30 p.m. 11.30 10.30 9.30 8:30

WEBH (370.2m-810kc), Fashion and household talks. talks. WGN (302.8m-990kc), Home Management period.

| Atlantic | Eastern | Central | Mountain | Pacific | 2 p. m. | 1 2 n. | 11 | 10 | 10 | KGW (491.5m-610kc), Household | Helps, shopping guide. | WGBF (236.1m-1270kc), Garden | talk.

2.45 1.45 12.45 11.45 10.45

WGJ (477.5m-670kc), Home Economics. Style chats.

WGBF (236.1m-1270kc), Garden talk.

4 3 2 1 2n.

WIP (508.2m-590kc), Menu talk.

WJZ (454.3m-660kc), "Your Daily Menu," Mrs.

J. Heath.

4:15 3:15 2:15 1:15 12:15 WHO (526m-570kc), Recipes, household hints. 4:30 3:30 2:30 1:30 12:30 WLIT (394.5m-760ke), Household helps and hints. 5 4 3 2 1 WOC (483.6m-620kc), Home management schedule: 6 5 4 3 2 KMOX (280.2m-1070kc), Housewives' hour.

6:30 5:30 4:30 3:30 2:30 KOA (322.4m-930kc), Housewives' matinee. 7 6 5 4 3 KOA (322.4m-930kc), Culinary hints, Clara Hoover. Fashion hints.

7:45 6:45 5:45 4:45 3:45 WPG (299.8m-1000kc), Fashion Flashes. 9:30 8:30 7:30 6:30 5:30 KGO (361.2m-830kc), As a Woman Thinketii.

Wednesday Atlantic Eastern Central Mountain Pacific 10:30 a. m. 9:30 8:30 7:30 6:30 WWJ (352.7m-850kc), Tonight's dinner. 10:45 9:45 8:45 7:45 6:45 WTAG (268m-1120kc), Talk to Housewives, Mrs. Lydia Flanders.

Lydia Fianders.

12 n. 11 9 8

WEAO (293.9m-1020kc), Housekeepers half hour.

WHT (399.8m-750kc), Women's club, Jean Sargent.

WUJ (447.5m-670kc), Home Economics program.

Child Weliare talk. Fish dinner menu for Friday. 

talks.
WGBF (236.1m-1270kc), Ceoking instructions.
WGN (302.8m-990kc), Household management period. 11:35 10:35 9:35 8:35 KYW (535,4m-560ke), Table talk. 1:15 12:15 11:15 10:15 9:15 KMOX (280.2m-1070ke), Cookery, Gladys Kimbrough.

1:45 12:45 11:45 10:45 S KGW (491.5m-610kc) Household Helps, si guide. 9:45 2:20 1:20 12:20 11:20 WGBF (236.1m-1270kc), Garden talk. 10:20 2:45 1:45 12:45 11:45 WQJ (447.5m-670kc), Home economics. 4 2 2 WCCO (416.4m-720kc), Woman's hour. WHB (365.6m-820kc), Ladles' bour. WJZ (454.3m-660kc, "Your Daily Menu."

4:30 3:36 2:30 1:30 WLW (422.3m-710ke). Cooking school. 12:30 5 4 3 2 1 WMAQ (447.5m-670kc), Recipes. WOC (483.6m-620kc), Home management schedule, Aunt Jane, Atlantic Eastern Central Mountain 5:30 p. m. 4:30 3:30 2:30 KFNF (263m-1140kc), Flower talk. 5:40 4:40 3:40 2:46 WRC (468.5m-640kc), Housekeepers' chat. 2 6 5 4 3 2 KMOX (270.2m-1070kc), Housewives' hour. KOAC (280.2m-1070kc), Housekeepers' half hour. 

Thursday 11 10 9 8 7 WEAF (491.5m-610kc), Talks, cookery lecture. 11:50 10:50 9:50 8:50 7:50 WMC (499.7m-600kc), Home economics discussion Miss Kitty.

Priday 

 
 Atlantio
 Eastern
 Central
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 Pacific

 12 n.
 11
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 9
 8

 WEAO
 (293.9m-1020kc)
 Housekeepers' half hour.

 WHT
 (399.8m-750kc)
 Wounday
 hour, Jean

 WQJ
 (447.5m-670kc)
 Sunday
 dinner
 menu.
 talks.
WGBF (236.1m-1270kc). Cooking instructions.
WGN (302.8m-990kc), Home Management period. 12:35 11:35 10:35 9:35 KYW (535.4m-560kc) Table talk. 1:45 12:45 11:45 10:45 9:45 KGW (491.5m-610kc), Household helps. 2:45 1:45 12:45 11:45 10:45 WOAW (526m-570kc) Sunshine Sunday dinner WOAW (526m-570kc) Sunshine Sunday dinner menu.

WOJ (447.5m-670kc), July 2, "Your Child's Diet Now Means More Than You Realize." 'How Do You Wash Your Dishes?'

4 3 1 12 n.

WHB (365.6m-820ke), Ladies' hour.

WJZ (354.5m-660kc) 'Your Daily Menu,' Mss. J. Heath.

4:05 3:05 2:05 1:05 12:05

WCCO (416.4m-720kc), Woman's hour.

4:15 3:15 2:15 1:15 12:15

WHO (5258m-570ke) Recipes, household hints.

WJZ (454.5m-660kc), "They Are Wearing."

4:25 3:25 2:25 1:25 1:25

WJZ (454.5m-660kc) "Solving Candy Problems,"

5 3 2 1

XYW (525.4m-560kc) Woman's hour.

WOC (483.6m-620ke) Woman's hour.

Home Management, Aunt Jane.

5:15 4:15 3:15 2:15 1:15 5.30 4:30 3:30 2:30 1:30 WFAA (475.9m-630kc) Homemakers program. WMAQ (447.5m-670kc), Foibles of the Moment. 6:30 5:30 4:30 3:30 2:30 KOA (322.4m-930kc) Housewives matinee. 7 7 6 5 4 3 KOA (322.4m-930ke), Culinary hints. Fashion re-V1cW. 11:30 10:30 9:30 8:30 7:30 KMOX (280.2m-1070kc) Housewives' hour.

WWJ (352.7m-850kc) Tonight's dinner, 12 n. 11 fo 9 8 8 WEAO (293.9m-1020kc) Housekeepers' half hour. WEAR (389.4m-770kc) Home service talk. WHT (399.8m-750kc) Women's club, Jean Sargent. WGN (202.8m-990kc), Household hints. WOJ (447.5m-670kc), Home Economics program. 12:30 p.m. 11:30 [0:30 8:30 8:35 8:35 kYW (535.4m-550kc), Table talk. 2 fl. 1: 1 f0 KGW (41.5m-610kc), Household helps, shopping guide. KMA (252m-1190kc), Domestic science topics. 2:20 1:20 12:20 11:20 10:20 WGBF (236.1m-1270kc), Garden talk. 6 5 4 KMOX (280.2m-1190kc), Housewives' hour.

# PRES. COOLIDGE'S INDEPENDENCE DA

ists, solos, bands; 10-11, Victorians, quartet; 12:30 a. m., Knights of the Burning Candle.

WLIB, Chicago, III. (302.8m-990ke), 7-7:05 p. m., Million Sing; 7:05-7:15, Old-fashioned almanack; 7:15-8, WEAP; 11-11:20, Correll and Gosden; 11:20-1 a. m., Liberty studio ensemble; Ambrose Larsen, organist; Tommy Thatcher's Drake hotel dance orchestra; Purple Grackle orchestra. WLS, Chicago, III. (344.6m-870kc), 6:30 p. m., Elsie Mae Look, organist; 6:45, Maurie Sherman's college inn orchestra; 7:15, Rose Sherman, violinist; Marie Ludwig, harpist; 7:30, Al Melgard, organist; 7:50, Voice of the Listener; 8:10, Maurie Sherman's College Inn orchestra; 8:20, Mu Phi Epsilon concert.

WLW, Cincinnati, Ohio (422.3m-710ke), 6:15 p. m., Norrine Gibbons and Prisella Holbrook; 7, dinner concert, Hotel Gibson; 7:30, three-minute message, U. S. Civil service; 7:45, Hotel Gibson concert; 8, the Eagle quartet 8:30, Hilary Harrod and Forest Heilman; 9, Al Katz and his Kittens; 10, Doherty Melody Boys; 11, Irone Downing and Tommy Reynolds; 11:30, dance selections, Henry Theis Castle Farmers; 12:15, Night Howls.

WMAQ, Chicago, III. (447.5m-670kc), 6 p. m., Chicago theater organ; 6:30, Hotel LaSalle orchestra; 8, program; 9:20, music.

WMBB, Chicago, III. (249.9m-1200kc), 7-8 p. m.,

#### HIGH LIGHTS OF THE AIR

MONG the first visitors to the A Sesquicentennial exposition this summer will be President Coolidge whose Independence Day talk will be given in the Philadelphia municipal stadium. Complete broadcasting plans concerning the transmission of this speech to the public have not been given out as yet. At the present time only WFI expects to go on the air.

Another interesting event to take place in Philadelphia this month is the opening July 1, of the suspension bridge, called the largest in the world, connecting the states of Pennsylvania and New Jersey at Philadelphia.
WLIT will broadcast the early morning program which will take place at ing program which will take place at the dedication of this important piece of engineering. Among the speakers will be Governors Gifford Pinchot of Pennsylvania and A. Harry Moore of New Jersey.

Hordes of cowboys and cowgirls are invading the peaceful agricultural state of Michigan, a state hitherto famous in the spring for the beauty of its blossoming fruit trees. However, all these wild riders of the western plains will be confined within the Michigan State Fair grounds the Michigan State Fair grounds where they will take part in the first Michigan rodeo. The entire spectacle will go over the microphone of WOOD. Tex Sherman, rodeo veteran, will describe the events which take place July 2-6.

Hotel Shelburne makes its Radio bow, July 2, via WPG, with the S. Wheeler Wadsworth players, twelve of whom are internationally known. Mr. Wadsworth prior to his organization of this group was musical contion of this group was musical conductor of several successful musical comedies, notably "Little Jessie James" and "The Rainbow Girls." His Radio programs promise to show the same kind of pep.

Thursday, July 1

Headliners Today
Eastern Central Mountain

Atlantic	Eastern	Central	Mountain	Pacific	9 p.m.	8	7	7	50	5				
WBZ (333.1m-900kc)	U. S. Naxy band,	7:30	6:30	5:30	KDKA (309.8m-750kc)	Dances of All Nations.	WHAS (399.8m-750kc)	R8th	Field Artillery band,	10	9	8	7	6
WHO (525m-570kc)	Myrtle Williams, soprano,	WIP (508.2m-590kc)	Frolic, Kiwanis club,	10:30	9:30	8:30	7:30	6:30						
KWWG (278m-1080kc)	Mexican	Songs,	Scnorita	Carlotta	Villareat,	WRC (468.5m-640kc)	Drama,	WRC players,	1	10	9	8	7	
KFXF (250m-1200kc)	Irish	Melody	Boys,	12 m.	1	10	9	8	8					
WHT (399.8m-750kc)	Leek	and	Mac,	WHT (399.8m-750kc)	Leek	and	Mac,	WHT (399.8m-750kc)	Leek	Simins	and	Gloom	Chasers.	

Thursday, silent night for: CHIC, CKNC, CNRA, CNRE, CNRO, CNRR, CNRT, CNRV, CNRW, KFAB, KFH, KFOA, KFUO, KMOX, KOA, KOB, WAHG, WCAP, WEAO, WEBJ, WEMC, WGBF, WHAD, WHAZ, WJJD, WMAK, WMAZ, WOOD, WOR, WOS, WSM, WSUI, WTAM.

Atlantic or Eastern Daylight Saving

Buffalodians.

WEEI, Boston, Mass. (348.6m-860ke), 7:30 p. m., musicale: 8, WEAF.

WFI, Philadelphia, Pa. (394.5m-760kc), 6:30 p. m., Bellevue Stratford concert orchestra; 7, Bellevue Stratford dance orchestra; 7:15, Keystone Auto club feature; 8:15, WEAF; 9, WEAF; 10, WEAF; 10, WEAF.

WGR, Buffalo, N. Y. (319m-940kc), 6:30 p. m., Vincent Lope; Hotel Statler dance orchestra; 8, WEAF.

WHAR, Atlantic City, N. J. (275.1m-1090kc), 8 p. m., Seaside hotel trio; 9, studio concert; 11, Follies Bergere dance orchestra.

WHN, New York, N. Y. (361.2m-830kc), 8 p. m., Will Oakland's chatean; 10:30, Leroy Smith's orchestra.

11:30, Everglades orchestra; 12, Sophie Tucker's playground.

ground.

WIP, Philadolphia, Pa. (508.2m-590kc), 6:05 p. m.,
Benjamin Frankfin concert orchestra; 8, Sesquicentennial Chamber Muste society; 9, Pat Conway's band;
Carlo Ferretti, bartione; 9:30, Hotel Traymore concert
orchestra; 10, frolic, Atlantic City Kiwanis club;
11:15, Silver Slipper club danee orchestra;
WIAR, Providence, R. I. (305.9m-980kc), 9 p. m.,
orchestra; 9-11, WEAF,
WIZ New York, N. Y. (454.3m-650kc), 7:05 p. m.,
Hotel Pennsylvania concert orchestra; 7:40, Judge, Jr.;
7:55, United Press sporting; 8, First National presentation, WRC; 8:30, WRC; 9:30, Royal Typewriter
Salon orchestra, WGY, WCAD, WRC; 10:30, the
Record boys, WRC; 11, WRC.

Summer brings the return of the New York Philharmonic orchestra to the air. Wednesdays, July 7 and 14, New York Philharmonic oronesura to the air. Wednesdays, July 7 and 14, WJZ will broadcast this program at 8:30 p. m. Eastern daylight saving time. Saturday, July 10, WJZ and WRC will both broadcast.

Songs of the sea, luring the inland listener to the Atlantic coast will be

listener to the Atlantic coast will be the feature of the Wednesday, July 7, program at WRVA, Richmond, Va., when the Marines quartet takes to the when the Marines quarter takes to the ether. The only remedy on the Radio horizon this same evening to offset the roving effect of these songs is the medicine show at WLS, Chicago. Kruger and Dillon will reproduce the old-time medicine show and only the airline distance will save the listener from buying old-time favorite patent remedies.

A deaf man has been selected to sell the idea of a symphony orchestra over Radio. Arthur S. Garbett, famous for his contributions to musical literatures in notes and print, will give a short talk about a concert to be played by the San Francisco Symphony orchestra the day following, and his remarks will be illustrated by an instrumental trio before the KGO microphones, Saturday night, July 10, between 9 and 9:30 p. m. Pacific time. Although a composer of wide experience, and an expert on the orchestra, Garbett is about fifty per cent deaf, and hears only with the aid of mechanical devices.

Another departure from the conventional studio offering will be made Monday evening, July 12, when KOA, Denver, broadcasts a special bur-lesque program, the scene of which will be laid in the imaginary "Mid-west Lyceum Bureau and Booking Agency." Two hours will be devoted to rehearsals, assembling of acts and judging aspiring professionals. Tune in and give your opinion.

WLIT, Philadelphia, Pa. (394.5m-760kc), 10 a.m., official opening Delaware River bridge; speeches by Governor Gifford Pinchot of Pa. and A. Harry Moore of New Jersey; band concerts; 7:30, Benjamin Franklin

of New Jersey; band concerts; 7:30, Benjamin Franklin concert orchestra.

WMCA. New York, N. Y. (340.7m-880kc), 7 p. m., Hofbrau Haus entertainers; 8, Roemer's Homers; 9, Solow soloists; 9:30, Columbia Park entertainment; 10, Woodmansten Inn orchestra; 11, Emie Golden and his Hotel McAlpin orchestra; 12, McAlpin entertainers.

WNYC, New York, N. Y. (526m-570kc), 6:10 p. m., piano selections.

nis Hotel McAlpin orchestra; 12. McAlpin entertainers. WNYC, New York, N. Y. (526m-570kc), 6:10 p. m., piano selections.
WOO, Philadelphia, Pa. (508.2m-590kc), 7:30 p. m., Adelphia Roof Garden orchestra.
WOR, Newark, N. J. (405.2m-740kc), 6:30 p. m., Jacques Jacobs Hotel Shelton ensemble.
WP6, Atlantic City, N. J. (299.8m-1000kc), 6:45 p. m., Arthur Scott Brook, organiat; 7, Hotel Morton dinner music; 7:45, Hotel Ambassador dinner music; 8:30, Alice Warren Sachse, pianist; 8:45, Pat Conway's band; 9:30, Hotel Traymore concert orchestra; 10, Atlantic City Kiwanis club; 11:15, Silver Slipper Supper club dance orchestra.
WTAG, Worcester, Mass. (267.7m-1120kc), 7:30 p. m., Safety club; 8-9, program; 9-10, WEAF; 10-11, WEAF.

Eastern Standard or Central Daylight

Time Stations

CFCA, Toronto, Can. (356.9m-840ke), 11 p. m., Gilbert Watson and his orchestra.

CKNC, Toronto, Can. (356.9m-840ke), 8 p. m., Charles Le, Bodley and his dance orchestra; Edgar Smith, bass. WCAE, Pittshurgh, Pa. (461.3m-650kc), 6:30 p. m., dimer concert; 8, concert; 8:15, WEAF; 9, WEAF; 10, WEAF, Pa. (277.6m-1080kc), 6:30 p. m., Cathay orchestra; 7:30. Snellenburg symphony orchestra; 8. Saddler's Plantation scronaders; 8:30, Clitton's Anglers; 8:45, the Kandy Kids; 9, Barry O'More, Irish tenor; 9:30, the Musical Chefs; 9:45, Professor Doolittle; 10, recital,

WEAF, New York, N. Y. (491.5m-610kc), 6, m., dimer music; 7:30, midweek hymn sing; 8:15, Hires Harvesters. WEEL, WPI, WCAE, WLIB, WSAI, WIM, WTAM; 9, Cliquic club Eskinos, WEEL, WIM, WTAM; 9, Cliquic club Eskinos, WEEL, WIM, WTAM; 9, Cliquic club Eskinos, WEEL, WIM, WGR, WGC, WGC, WGC, WGC, WGR, WADC, Buffalodians.

WEEI, Boston, Mass. (348.6m-860kc), 7:30 p. m., musical class. 8 week.

Satery Standard or Central Daylight
Saving Time Stations

KDKA, Pittsburgh, Pa. (309.1m-970kc), 8:30 p. m., with
famous composers, 'Dances of All Nations,' symphony
players, 9. Symphony playors; Elsie Bresse Mitchell,
soprano; 10:05. Post dance program.

KYW. Chicago, Ill. (535.4m-560kc), 7 p. m., musicale.
Hearst square; 9-10:30, classical concert; 10:30-11:30,
Congress carnival.

WBAL, Baltimore, Md. (245.8m-1220kc), 6:30-7:30 p. m.,
WBAL, dinner orchestra; 8-8:30, Frederick D. Weaver,
organist; 8:30-9, WBAL mixed quartot; 9-10, WBAL
trio; John Wilbourn, tenor.

WBBM, Chicago, Ill. (225.4m-1330kc), 8-11:30 p. m.,
pupular music; Moss Covered melody period, Alemite
orchestra, artists; 11:30-12, suppor club.
WBZ, Springfield, Mass. (333.1m-900kc), 6 p. m., Bob
Patterson's Hotel Kimball trio; 6:33. Hotel Lenox
ensemble; 8, the U.S. Navy band; 9, Summer Princle,
pianlst; Willard Clark, barttone; 9:30, Martino quintet.
WGBD, Zion, Ill. (344.6m-870kc), 9 p. m., male chorus,
celestial bells; Erma Reynolds, soprano; E. B. Paxton,
baritone; Daniel Mason, trombonist; John Studebaker,
clarinetist; Mrs. Susle Barton-Smith, reader; John
Mehaffey, pianist.
WEBH, Chicago, Ill. (370.2m-810kc), 7 p. m., special
recital; 9, orchestra; Ruth Buhl Flick, reader; Dorothy
Horman Blum; Indiana male quartet; 11-12:30, orchestra; Pat Ward; Rita McFawn, Mary Bieber.
WENR, Chicago, Ill. (245.3m-1130ko), 6-7 p. m.,
Rauland lyric trio; S-10, All-American pioneers.
WENS, Chicago, Ill. (245.3m-110ko), 6-7 p. m., organ
missic; artist pupils, Chieago Musical college; Peggy
O'Neill, Esther Richards; 8-9, Jimmy Wall; Guyon's
Paradise; Leona Hayes; 11-12, Flo and Ray, Phi
Fleming; Melody Glirls; Panico Panic.
WGHP, Detroit, Mich. (270.1m-1110kc), 6-p. m., dinmer concert; 10, Frolickers; Heck and Mac; Mr. and
Mrs. Eddie McGrath; Motortown trio; 11, Skylark
dance band; Winfred Hunton, mezz-soprano; Harry
Hayes, banjoist; 12-1 a. m., Gerald Marks' orchestra;
Hayes, banjoist; 12-1 a. m., Gerald Marks' orchestra. 

Trianon ensemble; Hernes Brothers, Hungarian Harmonica Twins; 9-11, Trianon orchestra; ensemblo, Wellington Forbes, Bob Bennet, Bob Duffy.

WOK, Chicago, Ill. (217.3m-1380kc), 6-7 p. m., Tip Top Inn string ensemble; 10-1:30 a. m., Tearney's Town elub orchestra; Carl Lorraine's Pershine Palace orchestra; Midway Garden orchestra; Capitol theater program.

WOJ, Chicago, Ill. (447.5m-670kc), 7-8 p. m., Rainbe Gardens orchestra; staff artists; 10-2 a. m., Jerry Sullivan; Harry Gelse; Lew Butler; Bert Davis, Twe Frenchmen.

WRC, Washington, D. C. (468.5m-640kc), 7 p. m., WJZ; 7:30, U. S. Marline band, WJZ, WGY; 9, WJZ, 9:30, WRC players; 10:30, Meyer Duvis Swanee syncopators, WJZ.

WREO, Lansing, Mich. (285.5m-1050kc), 6-7 p. m., dinner concert; Gold Standard ensemble; Speed-Wagon serenaders; musical program; vocal and instruments solos.

dinner concert; Gold Standard ensemble; Speed-Wagon serenaders; musical program; vocal and instrumental solos.

WRVA. Richmond, Va. (256.3m-1170kc), 8:45 p. m., spirituals, Negro quartet; 9:15, Brockwell string band; 10, songs of England, France, Haly, Germany, Canada, U. S.; 11, Carry Me Back to Old Virginny.

WSAI, Cincinnati, Ohio (325.9m-920kc), 7:15 p. m., WEAF, W. Said, Cincinnati, Ohio (325.9m-920kc), 7:15 p. m., WSWS, Chicago, III. (275.1m-1090kc), 6 p. m. Stephen A. Day, Rita McFawn, Hugh Aspinwall, tenor; Josephine Oliver, violinist; Mariorie Terry, planist; orchestra; Golden trio; 10-11, Terrace Gardens quintet, "That Old Sweetheart of Mine"; 11-12, Halleluial Boys; Kenneth Clark; Rudy Winter; Billy Schaefer, Hamilton Harding; 12-1, Witching hour.

WTAM, Cleveland, Ohio (389.4m-770kc), 6:15 p. m., Hollenden hotel orchestra; 7:15-9, WEAF; 9, studio program; 11, Collegian seronaders.

WTIC, Hartford, Conn. (475.9m-630kc), 7 p. m., popular songs, Gentrude Coledesky; 7:30, vocal recital; 8, For-an-to Melody Makers; Travelers male quartct; 9, Hotel Bond dance orchestra.

WWJ, Detroit, Mich. (352.7m-850kc), 6 p. m., dinner concert; 7, WEAF.

Central Standard Time Stations Winnipeg, Man. (384.4m-780ke), 9, p. m., J. A. leld company program: Canadian Pacific railway

orchestra.

KFH, Wichita, Kans. (267.7m-1120kc), 6:30 p. m.,
Radlo plano playing contest; 7, Markle and Al Hiner,
harmony team.

KFNF, Shenandoah, Iowa (263m-1140kc), 7 p. m.,
Whito Cloud, Kansas.

KLDS, Independence, Mo. (440.9m-680kc), 8 p. m.,
Silvertone male quartet.

KMA, Shenandoah, Iowa (252m-1190kc), 6-7 p. m.,
orean.

little lady on the righ prefer blondes. Peggy golden hair, is a favorite sin a silver loving cup for being tainer at this station. "On teacher, Madame Ida Tcimp

ing lessons in this language at WLW. Tune in every Eastern standard time. Fan Atwater Kent programs all v classical concerts being give the WEAF chain by the po McQuhae, and the Atwater McQuhae may be seen at

ENTLEMEN could ha

Nicholas Beresowsky leade standing at t

concert: 8-9:15. Foster, Hall, Stone, Rubber organ concert; 8-9:15, Euster, Triplets.
WHO, Des Moines, Iowa (526m-570ke), 7:30-8 p. m.,

WHO, Des Moines, Iowa (526m-570kc), 7:30-8 p. m., Younker tea-room ornestra; 8-9, Bankers' Life tric; Stewart Watson, baritone; Myrtle Williams, soprano, WMC, Memphis, Tenn. (499,7m-600kc), 8:30 p. m., Cooper's Hawatians.
WOAI, San Antonio, Texas (394.5-760kc), 8:30 p. m., Mistletoe Melody Malds.
WOAW, Omaha, Nebr. (526m-570kc), 6 p. m., Elks' organ; 6:25, Francis Potter; 6:50, orchestra; 9, classteal.

organ; 6:25, Francis Fotot, 5:50, Statistical, WOC, Davenport, Iowa (483.6m-620kc), 6-6:15 p. m., WDSAF; 9-9:30, Moline Plowboys.
WORD, Chicago, IJI. (275.1m-1090kc), 8:00 p. m., muslcal program.
WR, Dallas, Texas (245.8m-1220kc), 6-7 p. m., Jack Gardner's orchestra; 8-9, musicale; 9:30-10:30, Dyoduo.

Winds, New Orleans, La. (319m-940ke), 8:30-10:30 p.m., Schilling's Society seronaders; Radio Revelers; Liberty theater dance program. WSOE, Milwaukee, Wis. (245.8m-1220ke), 7 p.m., Elks elub studio; 8, Bible class, Dr. J. C. O'Hair; 9, Lakefront studio.

Mountain Standard Time Stations
KFXF, Colorado Springs, Colo. (249.9m-1220ko), 9
p. m., Irish molody boys with Ernest McGec, onterp. m., 17131 motors, 5-5 tainer. KOA, Denver, Colo. (322.4m-930kc), 6:30 p. m., Brown Palace string orchestra.

Palace string orchestra.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642kc), 7-8 p. m., students, University of Califorula; 8-9, Kanner string trio; 9-10, Howard McKee, D. Reeves Boyd, flutist; 10-11, Patrick-Marsh dance orchestra.

KFWB, Hellywood, Calif. (252m-1190kc), 6-7 p. m., Pontiac 6 dinner hour; 7-8, program, O'Neal and Son; 8-9, program, McGavin Brothers bakery; 9-10, program, Dell's Ice Cream; 10-11, Warner Brothers Irolic.

frolic.

KGO, Oakland, Calif. (361.2m-830ke), 8-9 p. m., vacation program; Morey Amsterdam, Original Radiumimic; Anlta Romano, guitarist; Fishin' Jim Pike, WOW male trio; 9, Brotaw and orchestra.

KGW, Portland, Ore. (491.5m-610kc), 6-7 p. m., dinner concert: 8-10, vaudewille program, Four Sailors; Ebony and Ivory, piano duet; Motor Coach entertainers; Tommy Luke's Flower girls; 10-12, Cole McElroy's dance orchestra.

dance orchestra.

KHJ, Los Angeles, Calif. (405.2m-740kc), 6:30-7:30 p. m., children's hour, Uncle John: S-10. Times de luxe program: 10-11, Heffner's Sunnyland Seven.

KPO, San Francisco, Calif. (428.3m-700kc), 6:30-7 p. m., Rudy Seiger's Fairmont hotel orchestra; 8, program, Caswell Coffee company; 9-10, hanquet program, H. O. Harrison company; 10-11, Mandaricate orchestra.

KPSN, Pasadena, Calif. (315.6m-950kc), 8-9 p. m., musicale, Pasadena chamber of commerce.

#### Friday, July 2

#### Headliners Today

 Atlantic
 Eastern
 Central
 Mountain
 Pacific

 7:45, p. m.
 6:45
 5:45
 4:45
 3:45

 WFG
 (299.8m-1000kc),
 S.
 Wheeler
 Wadsworth

 players,
 6:15
 5:15
 4:15

 WGY
 (3:79.5m-790kc),
 "The
 Anti
 Renters," WGY

Fair grounds.
WM (289-8m-1869kg), Pasheds ensemble singers

#### DANCING Central Time

Central Time

Saturday

9. Webh, Wjaz, Wn
Wnyc, Wreo; 9:10, K
Wip; 9:30, Kths, W
Wor, Wre; 10, K
Kfwa, Koa, Kpo, W
Wgn, Wiaz, Wir, W
Wma, Wiyz, Wor, V
Weco, 10:30, Wa
10:45, Wls; 11, K
Kfwb, Kpo, Webh, W
Kgbu, Who, Wiaz, V
11:30, Kfon; k1:45, W
12. Kgo, Kgw, F
Wgbu, Wjaz, Wijd.

Monday

8. Wep: 9, W. Wjar, Wor; 9:15, W: 10. Kths, Wgbu, Wpg; Wwgr, Wnye, Wgcp, W Wfr, Wscp, W Wcp, W Wcp, Wgr, Wscp, W Wscp, Wgr, Whn, W Wjaz, 11:45, Wdaf; Knx, Kpo.

Tuesday

8, Wpg; 9, Wpg; 9

Kths; 10, Wbbm, W

Webh, Wgbu, Wgn, V

10:15, Kths; 15:30, K

Whn; 10:45; Wsb;

Kgw, Koll, Wgbu, V

Wjaz, 11:45, Wdaf,

Kgw, Khj, Knx, I

Wdaf, Wjaz; 1, Wql.

Wednesday

Wednesday
9, Wcx, Webh, W
Wgep, Whn, Who, W
Wmbb, Wmea, W
9;15, Wahg; 9:30, W
Who, Wor: 10, K
Wbap, Weaf, W
Wgep, Wjaz, Wqj; 10
Wcco; 10:30, Wbap, W
11, Koil, Kpo, W
Wgbu, Wgep, Wgr, V
Wjaz; 11:45, Wdaf;
Kfwa, Knx, Kpo, W

Thursday

Thursday

8, Wir: 9, Webh, W
Wgbu, Whn, Wir. Wi
Wsai, Wlag; 9:05, W
Wip; 9:30, Webs, W
Whn; 9:30, Webs, W
Wgbu, Whn, Winca, W
Wgbu, Whn, Winca, W
Wgf; 10:30, Kths, V
Webh, Wgbu, Whn, L
1:45, Wdaf; 12, Khi, Knx, Kpo, Wjj

Friday

Friday

S, Wwj; 9, Wex, W
Weei. Wgbu, W
Wmbb; 9:15, Wahg; !
Wcau, Whn; 10, I
Kpo, Kths. Wgbu, W
Whn, Wgr, Wqj.

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# DAY TALK FROM SESQUICENTENNIAL



#### DANCING

Saturday Saturday

Webh, Wiaz, Wmbb,
1yc, Wreo; 9:10, Kths,
p; 9:30, Kths, Wgbs,
ir, Wre; 10, Kfee,
wa, Koa, Kpo, Weaf,
in, Wiaz, Wir, Wkrc,
nea, Wnyc, Wor, Wqi,
eo, Wtam; 10:05,
eo; 10:30, Wand;
45, Wls; 11, Kfwa,
wb, Kpo, Webh, Wfaz,
bt, Who, Wjnz, Woe;
eigo, Kfee, 12:45, Wdaf;
Kgo, Kgw, Knx,

Kgo, Kgw, Knx, , Wjaz, Wjjd. Monday

Monday
3, Wgep; 9, Wgbu,
iar, Wor; 9:15, Wahg;
Kths, Wgbu, Wgen,
Tr, Wnye, Wpg; 10:15,
1r; 10:30, Wgep, Whn;
Kgw, Koil, Wgbu,
tep; Wgr, Whn, Vho,
iaz; 11:45, Wdaf; 12,
1x, Kpo.

Tuesday

Tuesday

3, Wpg; 9, Wpg; 9:30,
hs; 10, Wbbm, Weaf,
bbh, Wgbu, Wgn, Whn,
nea, Wn; 9, Wps;
15, Kths; 2:30, Kths,
n; 10:45; Wsb; 11,
ov, Koil, Wgbu, Whn,
iaz; 11:45, Wdaf; 12,
ov, Khj, Knx, Kpo,
daf, Wjaz; 1, Wqj.

Wednesday

Wednesday

9, Wex, Webh, Wgbu,
geb, Whn. Who, Wjaz,
mbb. Wmea, Wtic;
15, Wahg; 9:30, Wbap,
ho, Wor; 10, Kfee,
bap, Weaf, Wgbu,
geb, Wjaz, Wqj; 10:05,
cco; 10:30, Wbap, Whn;
. Koil, Kpo, Webh, cco; 10:30, Wbap, Whn; Koil, Kpo, Webh, gbu, Wgcp. Wgr, Whn, jaz; 11:45, Wdaf; 12, 'wa, Knx, Kpo, Wjaz, jjd.

#### Thursday

Thursday

Nijr: 9, Webh, Weei,
gbu, Wan, Wir. Wmbb,
sal, Wtag; 9:05, Wbz,
hp; 9:36, Wzbs, Wzy,
hs; 9:35, Wiye;
hs, Wbbm, Weaf,
gbu, Whn, Whea,
ui; 10:39, Kths, Whn,
ebit, Wgbu, Whn, Woc,
i-15, Wdaf; 12, Kgo,
i, Knx, Kpe, Wjid.

Friday

8. Wwj; 9, Wcx, Webh, eei, Wgbu, Wgep, mbb; 9:15, Wahg; 9:30, cau, Whn; 10, Kfve, 50, Kths, Wgbu, Wgep, hn, Wgr, Wqj.

Atlantic Eastern Central Mountain 10:30 p.m. 9:30 8:30 7:30 WFAA (475.9m-630kc), Schubert choral club. 10:45 9:45 8:45 7:45 WTIC (475.9m-630kc), Debutants.

Friday, silent night for: CFAC, CKAC, CKNC, CKY, CNRC, CNRM, CNRM, CNRM, KFAC, KLDS, KPRC, KPSN, KSAC, WBBR, WCAD, WCBD, WEAD, WGBS, WGST, WHAZ, WIP, WJAZ, WKRC, WLW, WLWL, WOR, WRC, WREO, WRVA, WSAI, WSMB, WSUI, WTAM.

Atlantic or Eastern Daylight Saving

Atlantic or Eastern Daylight Saving
Time Stations

WCAE, Pittsburgh, Pa. (461.3m-650kc), 6:30 p. m.,
dlaner concert; 8. studio program; 9:30, concert; 10,
WEAF: 10:30, WEAF.

WCAU, Philadelphia, Pa. (277.6m-1080kc), 6:45 p. m.,
Hotel Pennsylvania orchestra; 7:30, Snellenburg;
strumental trio; 8. Sillivan Brothers, utkulele; 8:15,
Enrico Sresonl, operatic tenor; 8:30, Singing Groundhog; 8:45, Dwight Strickland, "poetician"; 9, the
Refina Crooners; 9:15, Nasco Jolly Four; 9:45, Jack
and Jill, sones; 10, Archie Lloyd, Tillie Shapiro and
Kathyrn Jordan, harmony songs; 10:30, Myers' musical
architects.

Kathryn Jordan, harmony songs; 10:30, Myers' musical architects.

WEAF, New York, N. Y. (491.5m-610kc), 6-12 midnight, dinner music; Gene Ingraham and his Great Top Notch Inn orchestra; Whittal Anglo-Persians; Pelham Heath Inn orchestra.

WEEI, Boston, Mass. (348.5m-860kc), 7:30 p. m., Whiting Milk company program; 8. musicale; 8:30, Sandy MacFarlane; 9. Musical Chef; 9:30, WEAF; 10:30, Bcd Andrews' Nautual dance orchestra.

WFI, Philadelphia, Pa. (394.5m-760kc), 6:45 p. m., Bellevue Stratford dance orchestra.

WGR, Buffale, N. Y. (319m-940kc), 6:30 p. m., orchestra; 7:30, WEAF; 8:30, soloits; 9:30, WEAF; 10:30, band; 11:30, Vincent Lopez Hotel Statler dance orchestra.

band; 11:30, WbAF; 8:30, Soloists; 9:30, WbAF; 10:30, band; 11:30, Vincent Lopez Hotel Statler dance or-chestra.

WHAR, Attantic City, N. J. (275.1m-1090kc), 8 p. m., Seaside hotel trio.

WHN, New York, N. Y. (361.2m-830kc), 7 p. m., Country eluh orchestra; 7:30, Treasurciand neighbors; 8, Uncle Robert's chat; 10, Roseland dance orchestra; 10:30, Strand roof orchestra; 11:30, Club Alabam orchestra; 12, Silver Slipper orchestra; 10:30, p. m. Benjamin Franklin concert orchestra; 7, Uncle Wip's hedtime stories; songs, Mary and Helen Leedom. WJAR, Providence, R. I. (305.9m-980kc), 8 p. m., musicale; 8:30, Gorman's Jelly Bakers; 9, musicale; 10, WbAF; 11, Providence Biltmore dance orchestra. WJZ, New York, N. Y. (454.3m-660kc), 7:05 p. m., George Olsen's Hotel Pennsylvania roof orchestra. WJZ, New York, N. Y. (454.3m-660kc), 7:05 p. m., George Olsen's Hotel Pennsylvania roof orchestra; 8, Sundial Shoe serenaders, Bonnic Laddies; 9, Snider's Catsup hour; 10:30, Harold Stern's Hotel Belleclaire roof orchestra. WLIT, Philadelphia, Pa. (394.5m-760ke), 8 p. m., Pioneer Storage Battery cntertainers; 9, Schickerling artist; 10, Morning Glory club concert; Arradia cate dance orchestra; 10:30, Rufus and Rastus; 11, Freshman Mastenpiece Radio hour.

WMAK, Buffalo, N. Y. (265.3m-1130kc), 6:30 p. m., Hotel Lafayette orchestra; 8:15-10:30, WGY players; 10:30-11:30, University Terrace Sub-Division program.

Hotel Lafayette orchestra; 8:15-10:30, WGY players; 10:30-11:30, University Terrace Sub-Division program. WMCA, New York, N. Y. (340.7m-880kc), 6:30 p. m., Ernie Golden and his Hotel McAlpin orchestra; 7:30, Sach's quality hoys; 8:30, "Aluscle Shoals"; 9. Paul Whitman's Piecadilly players; 9:30, Klein's Secenading Shoemakers; 10, readings; 11, Jack Denny's orchestra; 12, McAlpin entertainers.
WNYC, New York, N. Y. (526m-570kc), 6 p. m., piano selections.

solections.

WOO, Philadelphia, Pa. (508.2m-590kc), 11 a. m., organ recital; 12:02 p. m.. Crystal tea room orchestra; 4:45, organ recital; 8:05, WOO orchestra; 9:25, Fox theater program; 10, WEAF; 10:30, Sylvania dance orchestra; 11, dance mustc.

WOR, Newark, N. J. (405.2m-740kc), 6:45 p. m., Hotel Rretton Hall string quartet.

Bretton Hall string quarret.

WPG, Atlantic City, N. J. (299.8m-1000kc), 6:45 p. m.,
Arthur Scott Brook. organist; 7, Hotel Traymore dinner musle; 7:45. Hotel Shelburne dinner musle; 8:30,
Marine studie; 9, Hotel Ambassador concert orchestra; 10, Ted Weems and his Novelty dance orchestra; 10:30,
Hotel Traymore Grille dance orchestra; 11, Jean
Weiner, organist.

Weiner, organist.
WTAG. Worcester, Mass. (267.7m-1126ke), 8:35 p. m.

Rauland lyric trio; 8-0, Moody Bible Institute hour; 9-10, Arthur Dunas, popular program; 12-2 a. m., midnite frolic.

WGES, Oak Park, III. (249.9m-1200kc), 5-7 p. m., old-time favorles, Art Bilouist, Will Rossiter, Pat Ryan, Peggy and Esther, Eddie Freekman; 8-9, Joe Warner, Joie Walsh, Ton Wheeler, Melody Girls; 11-1 a. m., Clarence Theders, Esther Richards, Pat Ryan, WGHB, Glearwater, Fla. (265.3m-1450kc), 8:30-10 p. m., Frederick Hubbard, organist.

WGHP, Detroit, Mich. (270.1m-1110kc), 6 p. m., dinner concert; 10, entertainers; 11, Skylark dance band; T. Stanley Perry, tenor; Dick Quinlan, saxophonist; 12-1 a. m., Gerald Marks' orchestra.

WGN, Chicago, III. (302.8m-990kc), 6:35-7 p. m., mustend program; Drake concert ensemble, Blackstone string quinlet; request program; 7:15-8:15, Paul Ash; 8:15, musicale; 9, WEAR; 9:30-10, Phanton vlolin; 10-10:10, Sam 'n' Henry; 10:10-11, musical program, onsemble.

WGY, Schenectady, N. Y. (379.5m-790kc), 6 p. m.

10-10:10, Sam 'n' Henry; 10:10-11, musical program, ensemble.

WGY, Schenectady, N. Y. (379.5m-790ke), 6 p. m. Hotel Van Curler orchestra; 6:35, WGY orchestra; 7:15, "The Antit Renters," WGY players; 9:30, WGY orchestra; Theodore Von den Bliek, cornelist. WHT, Chicago, III. (299.8m-750ke), 7 p. m., Al Carney, 7:40, chapel; 10:15 (238m-1260ke), musical features; 10:30, (399.8m-750ke), Sunbeam Girl; 12 midnight, your hour league.

W1BO, Chicago, III. (225.4m-1330ke), 6-8 p. m., dinner program, string trio; Charlotte Edwards, contralto; 10-2 a. m., popular program; Ted Finrito, pianist; 10-12 a. m., opular program; Ted Finrito, pianist; 10-12 a. m., opular program; Ted Finrito, pianist; 10-12 fichiago, III. (329.5m-910ke). 9-12 mid Forl W1AZ, Ghicago, III. (329.5m-910ke). 9-12 mid Forl

Dan Russo, violinist; songs, monologues; Tony Corcoran; Hickey and Johnson, 2,5m-910ke), 9-12 mid., Earl Hoffman's Chez Pierre orchestra; Walter Levis, baritone; Eulalie Kober, pianist; The Quips That Pass In The Night.

WIJD Mooseheart, III. (370.2m-810ke), 5:30-7 p. m., Jack Nelson; Howard Peterson, organist; Vietorians; 8-9, child artists, solos, bands; 10-11, Senator Harold C. Kessinger; Palmer House Vietorians; 12:30 a. m., Settin Up hour.

Settin Tp house relocates, 12-30 a. m., 12-3

semble; Ambrose Larsen, organist; Tommy Thatchor's Drake hotol dance orchestra; Fred Hamm's Purple Grackle orchestra.

WLS, Chicago, III. (334.6m-870kc), 6:30 p. m., Elsie Mae Look, organist; 6:45, Maurie Sherman's College Inn erchestra; 7:15, Rose Sherman, violinist; Marie Ludwig, harpist; 7:30, Al Melgard, organist; 7:50, Voice of the Listener; 8-10, College Inn orchestra; 9, Stephen Foster program; 10, popular music; II, Raiph Emerson, organist.

WMAQ, Chicago, III. (447.5m-670kc), 6 p. m., Chicago theater organ; 6:30, Wide-Awake club program; 8, George Sinnons, tenor; 8:30, Whitney Irio; 9:20, musical program, chimes.

WMBB, Chicago, III. (249.9m-1200kc), 7-8 p. m., Trianon duo, special artists, old-time songs; 9-11, Trianon orchestra; trio; Krueger and Dillon, banjo barons; Joe Warner, popular program.

WOK, Chicago, III. (217.3m-1380kc), 6-7 p. m., Tip-Top Inn string ensemble concert; 10-1:30 a. m., Tearney's Town club orchestra; Midway Garden orchestra; Capitel theater program.

WOOD. Grand Rapids, Mich. (241.8m-1240kc), 9 p. m., World Championship Roundup, Michigan State Fair grounds; 10:05, classical concert, Emma Scott Sweet, WQ, Chicago, III. (447.5m-670kc), 7-8 p. m., Rainbo Gardens orchestra; 10-2 a. m., Rainbo Gardens orchestra; Chimp F. Gardens orchestra; Chimp F. Gardens orchestra; Gold Standurd ensemble; miscellancous programs.

WREO, Lansing, Mich. (235.5m-1050kc), 6-7 p. m., Josephine Oliver; Baward Holt, pianist; Alice Marie Martel; Fay and Martel; 8, Gus Edwards orchestra; Borden Brothers; Harmony Douglas Bowers; John Forden, Franches Brothers; Harmony Douglas Bowers; John Flotel; Gleveland orchestra; 8, orchestra program; 9,

Pierson; Freddie Wittmer; Flo and Ray; 12-1 a. m., Witching hour.
Witching hour.
WIAM, Cleveland, Ohio (389.4m-770kc), 6:45 p. m., Hotel Cleveland orchestra; 8, orchestra program; 9, WEAF; 9:30, studio program; 11, Austin Wylle's Vocallan Recording orchestra, W710, Hertiegd, Coun. (425.5m-839kc), 5:59 p. m.,

#### EDUCATIONAL FEATURES

Monday Atlantic Eastern Central Mountain Pacific 6:30 p. m. 5:30 4:30 3:30 2:30 WNYC (526m-570kc), German lessons, V. H. Ber-

WDAF (365.6m-820kc), School of the Air. 1:15 a.m. 12:15 11:15 10:15 9:15 KGO (361.2m-830kc), Educational features.

Tuesday

Atlantic Eastern Central Mountain Pacific 8 p. m. 7 6 5 4 WDAF (365.6m-820kc), School of the Air. WEAO (293.9m-1020kc), Bird talks. 10 9 8 7 6 WMAQ (447.5m-670kc), Lecture, University of Chicago. 12 m. 11 10 8 KTAB (239.9m-1250kc), Mills college.

Wednesday

Atlantic Eastern Central Mountain Pacific 6:30 p. m. 5:30 4:30 3:30 2:30 WNYC (526m-570kc), Spanish lesson, V. H. Ber-

8 7 6 5 4 WDAF (365.6m-820ke), School of the Air. 8:30 7:30 6:30 5:30 4:30 WBZ (333.1m-900kc), Radlo Naturo league. Atlantic Eastern Central Mountain Pacific

9 p. m. 8 7 6 5 WEAO (293.9m-1020kc), "Atoms and Stars." WHB (365.6m-820kc), Automotive talk. WMAQ (447.5m-670kc), Lecture, Northwestern uni-

11:30 10:30 9:30 8:30 KHJ (405.2m-740kc), Astronomy.

Thursday
Atlantic Eastern Central Mountain Pacific 7:30 p. m. 6:30 5:30 4:30 3:30
WLW (422.8m-710kc), Educational talk.
8 7 6 5 4
WDAF (365.6m-820kc), School of the Air.
9:30 8:30 7:30 6:30 5:30
WO1 (270.m-1110kc), Industrial Science, short course, "State Parks of Iowa."

10 9 8 7 6 WMAQ (447.5m-670kc), U. of C. lecture.

 
 Friday

 Atlantie
 Eastern Central Mountain
 Pacific Paci 6:30 5:30 4:30 3:30 WNYC (526m-570kc), French lesson. 2:30

8 7 6 5 4
WDAF (365.6m-820kc), School of the Air.
WOAW (526m-570kc), "Musical Appreciation,"
Hester Bronson Copper.

10 9 8 7 WMAQ (447.5m-670kc), U. of Chicago. 11:45 10:45 9:45 8:45 KFWB (252m-1190kc), Nature talk.

Laura C. Gaudet, planist; 7:30, Colt Park municipal dance orchestra; 8:30, Clinton choral club; 9, E. B. C. orchestra; 9:30, WTIC's Mail bag; 9:45, Debutants' period. WMJ. Detroit, Mich. (352.7m.850kc), 6 p. m., dinner concert; 8, News orchestra; 9, WEAF.

cert; 8, News orchestra; 9, WEAF.

Central Standard Time Stations

concert, 8, News orchestra; 9, WEAF

Central Standard Time Stations

KFAB, Lincoin, Nebr. (340,7m-880ke), 5:30-6:30 p. m., dinner concert; 8:30-10:30, Out-of-town program.

KFDM, Beaumont, Texas (315:6m-950ke), 7:30-8 p. nl., band; 8-10, artists.

KFH, Wichita, Kans. (267,7m-1120ke), 9:30 p. m., piano playing contest; 7, mixed quartet; 11, Lassen Harmonizers.

KFNF, Shenandeah, lowa (253m-1140ke), 7:30 p. m., James H. Lavy, director.

KMA, Shenandoah, lowa (252m-1190ke), 9-11 p. m., James H. Lavy, director.

KMA, Shenandoah, lowa (252m-1190ke), 9-11 p. m., Jacquinot Kules, organist; 7, KMOX Radio orchestra; 8, light opera selections; 9, KMOX Radio orchestra; 8,:30, Bamalogue, Wanderer; 10, KMOX orchestra; Helen Musick, dramatle soprano.

KOIL, Council Bluffs, lowa (278m-1080ke), 7:30 p. m., program, Florence Palmer; 8:30, Dresher Brothers program; Jack and Jill; 11, Hotsy Totsy hour; Jim Shoemakers Happy Family orchestra.

KSO, Clarinda, lowa (241.8m-1240ke), 8 p. m., Fillmore Joy Makers.

KTHS, Hot Springs National Park, Ark. (374.8m-800ke), 9:05-9:20 p. m., Lawson Reld, organist; 9:20-9:50, New Arlington hotel ensemble; 9:50-10:30, Ray Mullins' orchestra; 12, midnithe revue.

WADC, Akron, Ohio (258.5m-1160ke), 7:50 p. m., Times Press story man; 8, studio program; 10, Roseland orchestra; 12, midnithe revue.

WADC, Akron, Ohio (258.5m-1160ke), 7:50 p. m., Times Press story man; 8, studio program; 10, Roseland orchestra; 12, midnithe revue.

WADC, Akron, Ohio (258.5m-1160ke), 7:50 p. m., Times Press story man; 8, studio program; 10, Roseland orchestra; 12, midnithe revue.

WADC, Akron, Ohio (258.5m-1160ke), 7:50 p. m., Times Press story man; 8, studio program; 10, Roseland orchestra; 12, midnither evolue.

WADC, Marington home concert, st. Paul, association; 7:30, Jeanne Gray; 8, WEAF; 8:30, musicale; 10:05, Nankin cafe orchestra.

WCOA, Pensacota, Fla. (222m-1350ke), 7 p. m., Howland trio; Mrs. J. W. Lamar, violinist, Mrs. Carol C.

WCCO, Minneapolis-St. Paul, Minn. (446.4m-720ko. 6:15 p. m., dinner concert. St. Paul association; 7:30, Jeanne Gray; 8, WEAF; 8:30, musicale; 10:05, Nankin cafe orchestra.

WCOA, Pensacola, Fla. (222m-1350ke), 7 p. m., Howland trio; Mrs. J. W. Lamar, violinist; Mrs. Carol C. Webb, vecalist; Gladys Villar, pianist; Robbye Cook, 12-year-old prodigy; Tony Bruno, saxophonist; Florida Footwarmers dance orchestra.

WDAF, Kansas City, Mo. (365.6m-820kc), 6-7 p. m., Harry Frank, organist; 8-8:30, WEAF; 8:30-9:30, WEAF; 11:45-1 a. m., orchestra; Ted Meyn, organist.

WFAA, Dallas, Texas (475.5m-630kc), 6:30-7:30 p. m., Orchard Hill Annusement Park orchestra; 8:30-9:30, Schubert choral club.

WGBF; Evansville, Ind. (236m-1270kc), 7 p. m., A. L. Maxwell company; 8, Journal musical program; 11, DX Hunting club.

WHAS, Louisville, Ky. (399.8m-750kc), 7:30-8 p. m., Reynolds-Kent Hotel Kentucky orchestra; 8-9, Kill-winning vocal male quartet.

WHO, Des Moines, Iowa (526m-570kc), 7:30-8 p. m., Philbreck and his Younker tea-room orchestra; 8-9, Kill-winds orchestra, 8-9, Kill-winds orchestra, bartone; Dessa Wolf, planist; 11-12, Philbreck and his Younker tea-room orchestra; 12, Philbreck and his Younker tea-room orchestra; 12, Philbreck and his Younker tea-room orchestra; 14, Philbreck and his Younker tea-room orchestra; 14, Philbreck and his Younker tea-room orchestra; 14, Philbreck and his Younker tea-room orchestra; 15, Philbreck and his Younker tea-room orchestra; 14, Philbreck and his Younker tea-room orchestra; 14, Philbreck and his Younker tea-room orchestra; 15, Philbreck and his Younker tea-room orchestra; 14, Philbreck and his Younker tea-room orchestra; 15, Philbreck and his Younker tea-room orchestra; 14, Philbreck and his Younker tea-room orchestra; 15, Philbreck and his Younker tea-room orchestra.

WOAU, Davenport, lowa (483.6m-620kc), 8-8:30 p. m., Orchestra; 6:50,

ySBT, South Bend, Ind. (275.1m-1090ke), 7-9:30 p. m.

concert.

WSM, Nashville, Tenn. (282.8m-1060kc), 7 p. m.,
Andrew Jackson hotel trio; ensemble singers; 10,
Sidney Grooms and his orchestra.

WSOE. Milwaukee, Wis. (245.8m-1220kc), 7 p. m.,
Elks elub; 7:45, Radio mass singing; 9, Candygram

Mountain Standard Time Stations KFXF, Colorado Springs, Colo. (249.9m-1220kc), 7:45 p. m., Elsie E. Hieks, organist; Christian Science Lecture, COA, Denver, Colo. (322.4m-930kc), 6:30 p. m., Brown Palace string orchestra; 8, open-air concert, Denver

Municipal band.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m.642ke), 7-7:30 p. m.,
Carlyle Stevenson's orchestra; 7:30-8, Pelipe Delgado's
media hora espanol; 8-9, Aeolian organ; 9-10, Harry
Decker's Hawaiians; 10-11, Packard ballad hour.

KFWB, Hollywood, Calif. (252m-1190ke), 6-7 p. m.,
Pontiac 6 dinner hour; 7-7:20, announcements; 7:30-8,
program, Paralta studios; 8-9, program, John Wright,
The Right Tailor; 9-10, studio program; 10-11,
Warner Brothers frolic.

KGW, Portland, Ore. (491.5m-610ke), 6-7 p. m., dinner
concert; 8-9, organ recital; 9-10, vaudeville entertainment; musical acts, Punch and Judy, Columbia
Knit Mermaids; 10-12, Cole McElroy's dance orchestra.

KHJ, Los Angeles, Calif. (405.2m-740ko), 6:36-7:30
p. m., Uncle John and the childron; 8-10, varied
studio muggram; 10-11, Clement's Super-six dance
overheading.

KLX, Oakland, Calif. (506.2m-590kc), 8-9:45 p. m., studio program, Pon Honor company; 9:45-10:30, Athens Athletic club orchestra. KPO, San Francisco, Calif. (428.3m-700kc), 6:30-7 p. m., States Restaurant orchestra; 8:30-9, studio program; 9-10, Palace Hotel Rose Room dance orchestra; 10-11, States Restaurant orchestra.

#### Saturday, July 3

Headliners Today

Headliners Today

Atlantio Eastern Central Mountain Pacific 8:10 p.m. 7:10 6:10 5:10 4:10

WEEI (348.6m-860kc), Symphony hall pop concert. 8:30 7:30 6:30 5:30 4:30

WBZ (333.m-990kc), Fourth of July program. 7 6

WOOD (241.8m-1240kc), Roundup.

WBC (468.5m-640kc), Kitt hour of music. 10:15 9:15 8:15 7:15 6:15

KOIL (278m-1080kc), Pullman Porters quartet. 10:30 9:30 8:30 7:30 6:30

WMC (499.7m-600kc), Pullman Porters quartet. 10:30 9:50 8:30 7:30

WMC (499.7m-600kc), Paul lacobs and Young Men's Hebrew association gate club. 11 10 9 8 7

KMA (252m-1190kc), Real Americans, Col. Lee Alexander Stone. 11:50 10:50 9:50 8:50 7:50

WMC (399.8m-750kc), Avalon quartet. 12 m. 11 10 9 8

WOOAW (526m-570kc), Organ jubilee.

Saturday, silent night for: CNRA CNRC, CNRE, CNRM, CNRR, CNRT, CNRV, CNRW, KFKX, KFUO, KFXF, KMA, KSO, KTAB, WBAL, WCAL, WCX, WEBJ, WGBF, WGCP, WGHP, WGST, WHA, WHAD, WHAZ, WHN, WHO, WJAR, WLIT, WLWL, WOO, WVA, WTAG, WTIC, WWJ.

Atlantic or Eastern Daylight Saving

Time Stations CFCA, Toronto, Can. (356.9m-840ke), 9 p. m., CFCA's

orchestra, WGAE, Pittsburgh, Pa. (461.3m-650kc), 6:30 p. m., dinner concert; 8:30, concert.
WEAF, New York, N. Y. (491.5m-610kc), 6-12 mid., dinner music; Sofia Seitz, contralto; musical comedy hits; orchestra; Goldman band concert; Russlan program, Emily Day, soprano; Ben Bernie and his orchestra; Vincent Lupez orchestra.
WEEI, Boston, Mass. (348.6m-860kc), 7:40 p. m., Lucerne-in-Maine quintet; 8:15, pop concert, Symphony hall.

Luceme-in-Maine quintet; 8:15, pop concert, Symphony hall
WFI, Philadelphia, Pa., (394.5m-760kc), 6:45 p. m.,
Bellevue Stratford dance orchestra; 8, band and
choruses from Sesquicentennial.
WHAR, Atlantic City N. J. (275.1m-1090kc), 8 p. m.,
Scaside hotel.
WHP, Philadelphia, Pa., (598.2m-590kc), 6:95 p. m.,
Benjamin Franklin concert orchestra; 8:15, Hotel
Ambassador orchestra; 8:30, program, Marine Studio;
8:45. Fat Conway's band; 9:30. dance orchestra;
Million Dollar Pier; 10, Garden Pier dance orchestra;
Million Todlar Pier; 10, Garden Pier dance orchestra;
10:45, Ted Weems' Novelty dance orchestra;
11:95,
organ recital, Germantown theater.
WIZ, New York, N. Y. (484.3m-660kc), 7:05 p. m.,
Waldorf-Astoria Roof orchestra; 10:30, Hotel Astor
Roof orchestra.

Waldorf-Astoria Roof orchestra; 10:30, Hotel Astor Roof orchestra.

WMAK, Buffale, N. Y. (265.5m-1130kc), 7:30-8:30 p. m., Buffale theater symphony WFBL, WGY, WHAM; 8:30-10, musicale.

WMCA, New York, N. Y. (340.7m-880kc), 7 p. m., Tappen's orchestra; 8:30, Time-0-Stat musical program; 10:30, Stauch's orchestra; 11, Ernie Golden and his Hotel McAlpin orchestra; 12 m., McAlpin entertainers.

WNYC New York, N. Y. (526m-570kc), 7 p. m., piano selections; 10, police quartet.

WNYC, New York, N. Y. (526m-570kc), 7 p. m., piano selections; 10, police quartet.
WOR, Newark, N. J. (405.2m-740kc), 6:30 p. m., Hotel Shelton ensemble; 7:30, Pryor's band; 9:15, Casino orchostra; 10:15, Brass quartet; 10:30, Monterey society orchestra: 11:15, Ben Bernie's Berkeley Carteret Grill orchestra.
WPG, Atlantic City, N. J. (299.8m-1000kc), 6:45 p. m., Arthur Scott Brook, organist; 7, Hotel Morton dinner music; 7:30, Hotel Shelburne dinner music; 8; Hotel Ambassador dinner concert; 8:30, Marine studio steel pier; 8:45, Pat Conway's band; 9:30, dance orchestra. 10:45, Ted Weems' Novelty orchestra; 11:30, Hotel Shelburne dance orchestra.

Eastern Standard or Central Daylight

Saving Time Stations

KDKA, Pittsburgh, Pa. (309.1m-970kc), 8:30 p. m.,
Westinghouse band concert.

KYW, Chicago, III. (535.4m-560kc), 7 p. m., hour of
music; 8, KYW's Congress hotel studio; 9-10:30,
classical concert; 10:30-12, Congress carnival.

WBBM, Chicago, III. (225.4m-1330kc), 8-2 a. m., Alemite orchestra; Ziegler Stars; Alemite orchestra; Vanity Pair orchestra.

WBBM, Chleago, III. (225.4m-1330kc), 8-2 a. m. Alemite orchestra; Ziegler Stars; Alemite orchestra; Vanity Fair orchestra: WBZ, Springfield, Mass. (333.tm-900ko), 6 p. m., Capitol theater orchestra; 8, Fourth of July program; 8:30, Max I. Krulee and his Hotel Westuninster orchestra; 9, James Newsworthy, harmonica soloist; 9:15, Dorothy May Todd, soprano and assisting artists. WEBH, Chicago, III. (370.2m-810ko), 7-8 p. m., songs, Frank Greif; 9-10, Edgewater Beach hotel orchestra; 11-12, midnight, orchestra; Kay Ronayne; 1 a. m., orchestra; 1-2, frolic.

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# WOOD VOICE OF MICHIGAN RODEO

#### Saturday, July 3

WENR, Chicago, III. (265.3m-1130kc), 6-7 p. m., Rauland lyric trio; 8-9, Arthur Dunas; 9-10, All-American Pioneers; 12-2 a. m., midnite frolic.

WGES, Oak Park, III. (249.9m-1200kc), 5-7 p. m., Paradise plane; Eddie Freckman; 8-9, Guyon's Paradise plalroom orchestra; 11-1 a. m., Peggy O'Nell, Esther Richards, Jack Lawin, Earl Hayden, Guyon's Paradise ballroom orchestra; Bobby Lee.

WGN, Chicago, III. (302.8m-990kc), 6:35-7 p. m., musical program; 8:30, ensemble; 9-9:30, light opera; 9:30, "In a Gondola"; 10-10:10, Sam 'n' Henry; 10:10-11, ensemble.

a Gondola"; 10-10:10, Sain in Telling, S.30 p. m., semble.

WGY, Schenectady, N. Y. (379.5m-790kc), 5:30 p. m., dinner concert, Hotel Onondaga; 6:30, Buffalo theater, WMAMK, WHAM; 9:30, dance music.

WHT, Chicago, III. (399.8m-750kc), 7:10 p. m., Al Carney, organist; 7:40, classical hour; 10:15 (238m-1260kc), Cinderella cafe orchestra; 10:50 (399.8m-750kc), Independence Day program; 12 midnight, your hour league.

ney, organist; 7:40, classical hour; 10:15 (238m-1260ke), Cinderella cafe orchestra; 10:50 (398,8m-750ke), Independence Day program; 12 midnight, your hour league.

WIBO, Chicago, III. (225.4m-1330kc), 6-8 p. m., dinner concert; string trio; Frances Schiebe, soprano; Evelyn Elliott, contralto; James Luschanski, trio.

WIAZ, Chicago, III. (325.5m-910kc), 9-12 mid., Earl Hoffman's Chez Fierre orchestra; Whistling Jim; vocal numbers, Kennard Barradeli vocal studio; late and old-tlme popular numbers. Zenith artists.

WID, Mooscheart, III. (370.2m-810ke), 5-04-7 p. m., dinner concert, Howard L. Feterson; 8-9, Palmet House Victorians; Isabel DeFaut; Simeon Oliver, planist; 10-11, Palmer House studio; Palmer House Victorians; Cook Sisters; 12-1 a. m., settin' up hour. Victorians; Cook Sisters; 12-1 a. m., settin' up hour. Wils, Chicago, III. (302.8m-930kc), 7-7.05 p. m., million sing; 7:15-7:30, Drake concert ensemble; Blackstone string quintet; 7:30-8, Drake concert ensemble; Pattison Coates, baritone; 11-11:20, Correll and Gosdon; 11:20-1 a. m., Ambrose Larsen, organist; Purple Grackle orchestra.

WLS, Chicago, III. (344.6m-870kc), 6:30 p. m., Elsie Mae Look, organist; 7:15-1 a. m., national barn dance. WLW. Cincinnati, Ohifo (422.3m-710kc), 7 p. m., organ concert, Johanna Grosse; 7:30, meeting, Seckatary Hawkins Radio club; S, Johanna Grosse; 8:30, K. of C. Minstrels; 9:30, Henry Theis Castlo Farmers; 10:30, Al Katz and his Kittens.

WMAQ, Chicago, III. (447.5m-670kc), 6 p. m., Chicago theater organ; 6:30, Hoctl LaSalle orchestra; 8: Twins contest; 8:30, photologue; 9, Chicago theater revue
WBB, Chicago, III. (249.9m-1200kc), 7-8 p. m., Trianon ensemble; Preston Graves, pianist; 9-11, Trianon orchestra; Wodlawn theater orchestra; ensemble; Jimmy, Eggert; Andy Anderson; Trianon syncopators.

WOK, Chicago, III. (127.3m-1330kc), 6-7 p. m., Tip-Top Inn string ensemble; 10-1 a. m., Tearney's Town club orchestra; Capitol theater program; 1-2, orchestras.

WOO, Grand Rapids, Mich. (241.8m-1240kc), 9 p. m., Boundup, Michig

well, Chicago, Ill. (447.5m-670kc), 7-8 p. m., Rainho Gardens orchestra; James Luchansky; 10-3 a. m., pa-trotic talk, Col. Lee Alexander Stone; Jerry Sullivan; Harry Geise; Joe Warner; Rita McPawn, Mary Biccher;

trotic talk, Col. Lee Alexander Stone; Jerry Sullivan; Harry Geise; Joe Warner; Rita McFawn, Mary Bieber; Bert Davis.

WRC, Washington, D. C. (468.5m-640kc), 7 p. m., Work of Congress, WJZ; 7:30, Hotel Washington orchestra; 9, Kitt hour of music; 10, dance program; 11-12, Otto F. Beek, organist.

WREO, Lansing, Mich. (285.5m-1050kc), 6-7 p. m., dinner concert; Gold Standard ensemble; Speed-Wagon serenaders; 10-12, special dance program; Speed Wagon serenaders; Merwin Jenkins, blind entertainer; Meadow Lark Inn quartet; Hawalian Melody Masters.

WSAI, Cincinnati, Ohio (323.9m-920kc), 8 p. m., chinnes; 8:15, News; 8, Lelia LeMar, Latonia Melody Boys; Norinne Gibbons, Priscilla Holbrook, Maids of Melody.

WSWS, Chicago, III. (275.1m-1030kc), 6 p. m., Terrace Gardens orchestra; Jean Duncan, contraito; Ruth Burnell, planist; Connic Cerwin, ballads; 8, Woodmar male quartet; Pat Deely, tenor; George Calder, bass; 10, Terrace Gardens quintet; Cook Sisters; Art Billquist; Zola Haynes; Ned Becker, humorist; Flo and Ray; Josephine Oliver, violinist; 12-1 a. m., Witching hour. WTAM, Cleveland, Ohio (389.4m-770kc), 6 p. m., Collegian serenaders; 7:30, studio program; 8, Hollenden botel orchestra; 9, Ev Jones and his gang.

WWI, Detroit, Mich. (352.7m-850kc), 7:30 p. m., Goldman band concert.

Central Standard Time Stations

Lincoln, Nebr. (340.7m-880kc), 5:30-6:30 p. m., Symphony orchestra; Cowbell Boys; 8:30-10:30,

musicale.

KFH, Wichita, Kan. (267.7m-1120kc), 6:30 p. m., piano playing contest; 7, J. O. Adams artists recital.

KFNF, Shenandoah, lowa (263m-1140kc), 11 p. m., old-

KFNF, Shenandoah, Jowa (263m-1140kc), 11 p. m., oldtime music.
KLDS, Independence, Mo. (440.9m-680kc), 8 p. m.,
studio program, Mary Jane Rhea, contraito.
KMA, Shenandoah, Jowa (252m-1190kc), 9-11 p. m.,
Ye Olde Tyme Gang orchestra.
KMOX, St. Louis, Mo. (280.2m-1070kc), 6 p. m.,
Jacquinot Jules, organist; 7, KMOX Radio orchestra;
8, orchestra; Porter Brown, banjoist; Eva Sirwell,
singer; 9, KMOX Radio orchestra; 9:30, Gordon
Morrison, guitarist; 10, chimes; KMOX staff.
KOIL, Counoil Bluffs Iowa (278m-1080kc), 6:30 p. m.,
Hugh McGann, bartione; 7:30, Cass double violin trio;
Mrs. George Klein, soprano; 8:15, Pullman Porters'
quartet; Mrs. Pearl Reese, soprano; Otis Watson,
pianist; 11, Hotsy-Totsy hour.
KPRC, Houston, Texas (296.9m-1010kc), 8 p. m., Frank
Tilton, blind wonder boy pianist; 10, awards, National
Advertisers' essay contest.
KTHS, Hot Springs National Park, Ark. (374.8m-800kc),
9:05-10 p. m., New Arlington Hotel Meyer Davis orchestra.

chestra.

KVOO, Bristow, Olka. (374.8m-800ke), 6-9 p. m., Marshall Van Pool and his Radio orchestra. WADC, Akron, Ohio (258.5m-1160kc), 9 p. m., Roseland

dance orehestra.

WBAP, Fort Worth, Texas (475.9m-630kc), 7:30-8 p. m., Sunday school lesson; 8-8:30, vesper symphony; 9:30-11, South Summit church of Christ singers.

WCCO, Minneapolis-St. Paul, Minn. (416.4m-720kc), 6:15 p. m., Emmet Long's Golden Pheasant orchestra; 10:05, Wallle Erickson's Coliseum orchestra orchestra, WDAF, Kansas City, Mo. (365.6m-820kc), 6-7 p. m., Ted Moyn, organist; Charlie Straight's orchestra; 11:45-1 a. m. Nighthaukt feelie

Ted Moyn, organist; Charlie Straight's orchostra; 11:45-1 a. m., Nighthawk frolic.

WFAA, Dallas, Texas (475.9m-630ke), 6:30-7:30 p. m.,

Jimmy Joy's orchestra; 8:30-9:30, Four Hoarso Men.

11-12, Jack Gardner's orchestra.

WHAS, Louisville, Ky. (399.8m-750ke), 7:30-9 p. m.,

Arthur Findling, barttone.

WMC, Memphis, Tenn. (499.7m-600ke), 8:30 p. m.,

Arthur Enditude, Memphis, Tenn. (499.7m-600ke), o.o. p. George Luttrell. WOAW, Omaha, Nobr. (526m-570ke), 6 p. m., literary period; 6:15, orchestra; 7, Chamber of Commerce; 7:30, period; 6:15, orchestra; 7, Omaha Printing com-

period; 6:15, orchestra; 7, Chamber of Commerce; 7:30, Creighton educational period; 9, Omaha Printing company; 10, organ jubilee, Elike elub.

WOC, Davenport, Iowa (483.6m-620kc), 9-10 p. m., quartet, Vernon Street Methodist Episcopal clurch.

WORD, Chicago, III. (275.1m-1090kc), 7 p. m., Webster hotel concert program.

WRR, Dallas, Texas (245.9-1000).

hotel concert program

WRR, Dallas, Texas (245.8m-1220ke), 6-7 p. m., dinner hour concert; 8-9, mustcale, A. Harris and company.

WSM, Nashville, Tenn. (262.8m-1060kc), 7 p. m., dinner concert; 8, popular and burn dance program.

WSMB, New Orleans, La. (319m-940ke), 8:30-10:30 p. m., Paul Jacobs and the Young Mori's Hebrew as sociation glee cluh.

WSOE, Milwaukee, Wis. (245.8m-1220kc), 7 p. m., Elks club; 8:30, Uniform Sunday school lesson; 9, Lake-front studio.

front studio. Mountain Standard Time Stations FXF, Colorado Sp. ... p, m., dance music.

Pacific Standard Time Stations

Pacific Standard Time Stations
KFI. Los Angeles, Calif. (467m-642ke), 7-8 p. m. Al
Wesson and his orchestra; 8-9, Angelus trio; 9-10,
Corelli trio; 10-11. Packard Radio club; 11-2 a. m.,
KFI midnight rolic; 4th of July frolic.
KFWB, Hollywood, Calif. (252m-1190ke), 6-7 p. m.,
Pontiac Six dinner hour; 7, announcements; 7:30-8,
program, Stoll, Heckinger and Hepp, Inc.; 8-9, program, Smith Investment company; 9-11, Warner
Brothers frolic.
K60, Oakland, Calif. (361.2m-830ke), 8:10 p. m., Salon
Four; Virginia F. Griffiths, soprano; 9-10, Oakland
Sciots band: 10:30-21:30 dence program

KÖÖ, Oakland, Carin, W. Four; Virginia F. Griffiths, soprano; 9-10, Sclots band; 10:30-12:30, dance program.
KGW, Portland, Ore. (491.5m-610kc), 6-7 p. m., dinner concert; 10-12, Herman Kenins dance orchestra; Punch

concert, 19-12, Archive Green, planist.

KHJ, Los Angeles, Calif. (405.2m-740ke), 6:30-7:30 p. m., Uncle John and the children; 8-10, tower studio p. m., Uncle John and the control of the program, KPO, San Francisco, Calif. (428.3m-700ke), 6:30-7:30 p. m., States restaurant orchostra; 8-12, Mandarin cafe orchestra.

KPSN, Pasadena, Calif. (315.6m-950kc), 6-6:15 p. m., dinner time news reports; 8-9, Star-News ensemble.

#### Sunday, July 4

#### Headliners Today

Atwell.

11:30 9:30 8:30 7:30

KPRC (296.9m-1010kc), Knights of Columbus band.

WCCO (416.4m-720kc), St. Paul municipal organ recital.

WBAP (475.9m-630kc), Hired Hand's little sym-

i a. m. 12 m. 11 10 9 KFWB (252m-1190ke), Fourth of July movie frolic.

Sunday, silent night for: CFAC, CHIC, CKAC, CKNC, CNRA, CNRC, CNRE, CNRM, CNRO, CNRR, CNRT, CNRV, CNRW, KFAB, KFH, KFKX, KFOA, KFK, KMA, KSO, WAHG, WCAU, WDAF, WEAO, WEBJ, WEBW, WFI, WGBF, WGHB, WGHP, WHAS, WHAC, WJAZ, WJB, WSM, WTAM, WTIC,

### Atlantic or Eastern Daylight Saving

Time Stations

CFCA, Toronto, Can. (356.9m-240kc), 11 a. m., St.
Paul's Angelican church; 7 p. m., Timothy Eaton
Memorial church.

WCAE, Pittsburgh, Pa. (461.3m-650kc), 6:30 p. m.,
dinner concert; 7:20, Capitol theater, WEAF,
WCAU, Philadelphia, Pa. (277.6m-1080kc), 5 p. m.,
recital; 5:15, undenominational church services; 6:30,
Hotel Pennsylvania orchestra; 8:30, Bonwit Teller ensemble.

weak. State of the state of the

Marsh company's piogram, 10.20, theater.
WHN, New York, N. Y. (361.2m-830ke), 7:30 p. m., Calvary evening services; 10:45, Jansson's Hofbrau orehestra; 12, Sophie Tucker's playground.
WIP, Philadelphia, Pa. (508.2m-590ke), 7:15 p. m., services, Holy Trinity church; 9:45, concert, Park

WIP, Philadelphia, Fa. services, Holy Trinity church; 9:45, convert, services, Holy Trinity church; 9:45, convert, Conway's band.

WIZ, New York, N. Y. (454.3m-660kc), 7 p. m., Park Avenue Baptist church carillon; 7:20, Hotel Pennsylvania concort orchestra; 8:30, Hotel Madison concert orchestra, WGY; 9:30, Godfrey Ludlow, violinist, WGY.

WMCA, New York, N. Y. (340.7m-880kc), 7 p. m., Ernie Golden and bis Hotel McAlpin orchestra; 9, Iawish Forward hour.

Jewish Forward hour.

WOO, Philadelphia, Pa. (508.2m-590ko), 10:30 a. m., services, Bethany Presbyterian church; 2:15, musical exercises, Bethany Sunday school; 6:05, organ recital.

Eastern Standard or Central Daylight

Saving Time Stations

KYW, Chicago, III. (535.4m-560kc), 11 a. m., Central church; 4 p. m., studio concert; 9:30-11, classical concert

church; 4 p. m., studio concert; 9:30-11, ciassical concert.

WBAL, Baltimore, Md. (245.8m-1220ko), 7:30-8:30 p. m., twilight concert, WBAL concert orchestra, WBBM, Chicago, III. (225.4m-1330kc), 12:30-2 p. m., sacred concert; 4-6, music; 8-10, Melody hour; 12, Nutly club.

WGBD, Zion, III. (344.6m-870kc), 8 p. m., Junior choir, brass quartet; P. Newcomer, cornetist; duets, vocal solos; Marian Priddy, planist; song, Lavon Paul; E. T. Dedler, reader.

WEBH, Chicago, III. (370.2m-810kc), 10:40 a. m., Seventh Church of Christ, Scientist; 7-9 p. m., artists' program.

WEBH, Chicago, III. (370.2m-810kc), 10:40 a. m., Seventh Church of Christ, Scientist; 7-9 p. m., artists' program.

WENR, Chicago, III. (265.3m-1130kc), 9:15 a. m., church services; 2-3 p. m., Skecles-Biddle hour of better music; 6-7, Moody Bible Institute Evening hour, 9:30-12, midnite froile.

WGES, Oak Park, III. (249.9m-1200kc), 10:30 a. m., M. E. church; 11:45-1 p. m., High Mass, Our Lady or Sorrows church; 5-7:40, Peggy O'Neii; Esther Richards, Sylvia Goldsmith, Joie Walsh, Frank Hayes; 11-1 a. m., Harry Davis, Ray Hibbler, Melody Girlis; Lew Butler. Frank Sylvano, Louis Panica; Guson's Paradisc ballroom orchestra.

WGHP, Detroit, Mich. (270.1m-1110kc), Grosse Pointe Memorial church.

WGHF, Detroit, Mich. (270. Im. 1110kc), Grosse Pointe Memorial church. WGN, Chicago, III. (302.8m-990kc), 6:35-7 p.m., musical program; 7-7:20, The Million Sing; 7:20-7:30, Old-Fashioned Almanack; 7:30-8, music; 8:15-8; WEAF; 8:45-9, music; 9-10, "Our Music Room"; 10-10:10, San "n' Henry; 10:10-11, musical program. WGV, Schenectady, N. Y. (379.5m-790kc), 10 a. m. First Presbyterian church; 6:20, Hotel Pennsylvania orchestra; 7. miscollaueous program; 7:30, Hotel Madison orchestra; 8:30, program; 9-9:30, WHO, Chicago, III. (399.8m-750kc), 1-11:30 p. m., Paul Rader. WHT, Chicago, III. (399.8m-750kc), 10:15 a. m., First M. E. church of Evanston; 2-4 p. m., program, Uptown Conservatory of Music; 6-8, dinner concert, string trio;

M. É. church of Evanston; 2-4 p. m., program. Uplown Conservatory of Music; 6-8, dimer concert, string trio; Helen Snyder, Eugene Wallenius, Robert Wessling 10-12, popular program, artists.

WJAZ, Chicago, III. (329.5m-910kc), 7-9 p. m., program, Spanish Garden studio; childwer's hour; Ann Slack, cellist; Verna McCombs, contralto; Marion Lycheuhelm, pianlst.

WJJD Mooscheart, III. (370.2m-810kc), 7:45 a. m., Roman Catholic services; 9:40, Protestant services; 2:30 p. m., concert; 3:30, Bible class; 4-6, Palmer House symphony orchestra.

WLIB, Chicago, III. (302.8m-990kc), 5-6:15 p. m., Edward Benedict, organist.

WLS, Chicago, III. (344.6m-870kc), 7-8:55 p. m., WLS, Little Brown church. WLS, trio; Sol Heller, baritone, WLW, Cincinnati, Ohio (422.3m-710kc), 10:45 a. m., morning worship, Seventh Presbyterian church; 8:30, patriotic program, Crosley Evening ensemble.

WMBB. Chicago, III. (249.9m-[200kc), 3-5 p. m. Trianon orchestra; Woodlawn theater orchestra; Wellington Forbes, tenor; Andy Anderson, bartione; plano novelties, Bob Bennett; popular concert; 7:40-9, Fifth Clurch of Christ, Scientist, 9-11, Trianon orchestra, Andy Anderson, bartione; Presson Graves, planist; Wellington Madison Sisters, Golden Harmony trio; popular portam Madison Sisters, Golden Harmony trio; popular portam Madison Sisters, Golden Harmony trio; popular portam (217.3m-1380kc), 6 p. m.,-1 a. m. Tearney's Town club orchestra; Carl Lorraine's Pershing Palace orchestra; Midway Garden orchestra; Capitol theater musical program; Tip-Top string ensemble studio program, 11. (447.5m-670kc), 10 a. m., People's church; 3-4 p. m., patriotic program; 8-10, Rainbo Gardens orchestra; Ambrose Wyrlek studio, Gardens orchestra; Molch. (285.5m-1050kc), 10 a. m., chimes, Belfry Plymouth Congregational church; 10.30, Plymouth Congregational church; R. Davis, organist. WSAI, Cincinnati, Ohio (325.9m-920kc), 11 a. m., Avondale Methodist Episcopal church; 7-45, chimes; 8, Radio sermonettic; 8-15, WEAF; 8:45, WEAF; 8:45, WEAF; 8:30-5 p. m., popular service, Rev. Philpott; 7-9:30, evening song service.

WTAM. Cleveland, Ohio (382.4m-770kc), 11 a. m., First WWI, Detroit, Mich. (352.7m-850kc), 10:30 a. m., First

hour.

WWJ, Detroit, Mich. (352.7m-850kc), 10:30 a. m., First
Presbyterian church; 2 p. m., News orchestra; 6:20,
WEAF; 8:15, operatic stars.

Central Standard Time Stations

Central Standard Time Stations

KFAB, Lincoln, Nebr. (340.7m-880kc), 4-5 p. m., vespers; 9-11, musicale.

KFDM, Beaumont, Texas (315.6m-950kc), 11 a. m., St. Marks Episcopal chruch; 8-9, services.

KFNF, Shenandoah, Iowa (263m-1140kc), 10:45, a. m., Flist M. E. church; 2:30 p. m., Golden Rule song service; 3, Men's Gospel team; 6:30, Golden Rule Circle; 8, Christian church.

KFUO, St. Louis, Mo. (535.1m-550kc), 9:15 p. m., "God Bless Our Native Land!" Rev. A. Fedderson.

KLDS, independence, Mo. (440.9m-680kc), 11 a. m., studlo service; 3 p. m., dedleation program; 6:30, Radio vesper service, Lilly Belle Allen, soprano; Edna Danlels, contralto; Elbort Dempsey, tenor; Dr. Frank Criley, bass; 9:15, Walnut Park orchestra.

KMA, Shenandoah, Iowa (252m-1190kc), 12:15-1:30 p. m., religious discussion; 4-5, Men's Gospel team.

KMOX, St. Louis, Mo. (280.2m-1070kc), 8 p. m., KFQA.

The Principia; 9, Skouras Brothers Sunday night club.

The Principia; 9, Skouras Brothers Sunday night club.

KOIL, Council Bluffs, Iowa (278m-1080ko), 11 a. m., First Congregational church; 7:30 p. m., Paramount program, College club orchestra; 11, Hotsy Totsy hour

hour.

KPRC, Houston, Texas (296.9m-1010ke), 8 p. m., Trinity
Lutheran church; 0:30, Knlghts of Columbus band; 11,
Toxan theater pipe organ concert.

KSO, Clarinda, lowa (241.8m-1240ke), 11 a. m., M. E.
church service.

church service.

KTHS, Hot Springs National Park, Ark. (374.8m-800ke), 11 a. m., First Baptist church; 9-10, classie hour.

KVOO, Bristow, Okla. (374.8m-800ke), 12:30-7 p. m., pipe organ; Rev. Leeper and his twenty-piece string band; Laughton Family; Oklahoma Cowboy band; Cushing Military band; 7:30-9, Worship hour.

WADC, Akron. Ohio (258.5m-1160kc), 12:30 p. m., organ regital. Allon thesets.

ing Military band; 7:30-9, Worship hour.
WADC, Akron. Ohio (258:5n-1160kc), 12:30 p. m., organ recital, Allen theater.
WBAP, Fort Worth, Texas (475:9m-630kc), 9:30-11 p. m., Hired Hand's Little symphony.
WCCO, Minneapolis-St. Paul, Minn. (416:4m-720kc), 10:50 a. m., Westminster Presbyterian church; 4:10 p. m., House of Hope Presbyterian church; 5:50, Second Church of Christ, Scientist; 7:15, WEAF, 9:30, Huro Philipe Goodwin organist; 7:15-8, Harry Sory's entertainers; 8-9, First Baptist church; 9-9:30, patriotic address, Hon. William H. Atwell; 11-12, Ligon Smith's orchestra.
WHAS, Louisville, Ky. (399:8m-750kc), 9:57 a. m. organ prelude; 10 Fourth Avenuc Presbyterian church, 2:45 p. m., "The American Legion Independence Day", "Plegge of Reconsecration."
WHB, Kansas City, Mo. (365:6m-820kc), 9:40-10:40 p. m., Iinwood Boulevard Christian church; 11, Independence Bivd. Christian church; 8-9:15, service; puet.

poet.

WHO, Des Moines, Iewa (526m-570ke), 5-6 p. m.,
Bankers' Life Little symphony orchestra; 7:30-8:30,
Fourteenth Cavalry band.
WMC, Momphis, Tenn. (499.7m-600ke), 11 a. m., First
Baptist church.
WDAI, San Antonio, Texas (394.5m-760ke), 11 a. m.,
First Presbyterian church; 7:45, Central Christian

First Presoyterian enurgi; 1:40, Central Carpsonnichurch.

WOAW, Omaha, Nebr. (526m-570kc), 9 a. m., chapel service; 1:30 p. m., Father Flanagan's Boys' homo period; 2:30, classical.

WRR, Dallas, Texas (245.8m-1220kc), 10:45 a. m., First Baptist church; 7:30, Church of Christ; 9:30-10:30, musical program.

WSM, Nashville, Tenn. (262.8m-1060kc), 7:30 p. m., First Presbyterian church.

WSUI, owa City, Iowa (483.6m-620kc), 9:10 p. m., familiar hymnis, Mrs. L. G. Lawyer.

familiar hymns, Mrs. L. G. Lawyer.

Mountain Standard Time Stations

KFXF, Colorado Springs, Colo. (249.9m-1220ko), 11
a. m., services, First Presbyterian church; 7:45, Jim
Goodheart's Denver sunshine mission services.

KOA, Denver, Colo. (322.4m-930ke), 10:55 a. m., First
Unitarian society; 6:30 p. m., KOA chorlsters; 8,
open-air concert, Denver municipal band.

Pacific Standard Time Stations F1, Los Angeles, Calif. (487m-642ke), 7-8 p. m., Jim, Jack and Jean trio; 8-9, Aeolian organ; 9-10, Badger's Hollywood Californians; 10-11, Packard Six dance

orchestra.

KFWB, Hollywood, Calif. (252m-1190kc), 9-11 p. m.,

KFWB, Hollywood, Calif. (252m-1190kc), 9-11 p. m.,

Warner Brothers 4th of July movie frolie.

KGO, Oakland, Calif. (361.2m-830kc), 11 a. m., First

Baptist church; 3:30 p. m., vesper service; 7:30, First

Baptist church service.

KGW, Portland, Orc. (491.5m-610kc), 10:45-12 noon,

services, First Presbyterian church; 7:30-9 p. m., East

Side Baptist church; 9-10, Cheverolet symphony or
chestra.

Side Baptist church; 9-10, Cheverolet symphony or chestra.

KHJ, Los Angeles, Calif. (405.2m-740kc), 7-8 p. m., First Methodist Episcopal church service; 8-10, special patriotic program featuring Orpheus Four male quartet. KPSN, Pasadena, Calif. (315.6m-950kc), 10:30 a. m., Family Altar service; 10:50, Pasadena Presbyterian church; 6:30-7:30 p. m., Maryland Artist's ensemble.

KTAB, Oakland, Calif. (329.9m-1250kc), 9:45 a. m., Bible lecture, Prof. E. G. Linsley; 11, service; 7:45 p. m., service; 9:30, after-service concert.

#### Monday, July 5

Headliners Today Atlantic Eastern Central Mountain Pacific

Atlantic Eastern Central Mountain 6 p. m., 5 4 3
WRC (468.5m-640kc), U. S. Navy band. 9 8 7 6
KOIL (379.5m-790ke), Patriotic program. WHN (361.2m-830kc), Leverich Three. 9 8
KSO (241.8m-1240kc), B 9:30 7:30
KFAB (340.7m-850kc), Old-time Tune night. 11:15 10:15 9:15 8:15
KOA (322.4m-930ke), Patriotic studio program. 6:30

Monday, silent night for: CKAC, CNRA, CNRC, CMRE, CNRM, CNRO, CNRR, CNRT, CNRY, CNEW, KFH, KHJ, KYS, WBBM, WCAL, WCBJ, WEBH, WEBJ, WENR, WFI, WGBF, WGBS, WGES, WGN, WHAS, WHAZ, WHO, WHT, WIBO, WJP, WJAZ, WJJD, WLIB, WLIT, WLS, WMAQ, WMBB,

WOAT, WOC, WOK, WOO, WORD, WQJ, WRC, WSWS.

#### Atlantic or Eastern Daylight Saving

Time Stations
CKNC, Toronto, Can. (356.9m.840kc), 9 p. m., Eveready orchestra; Verdi mixed quartet.
WCAE, Pittsburgh, Pa. (461.3m.650kc), 6:30 p. m., dlnner concert; 8:30, Budget bureau program, WEAF; 11:05. dance program.

dinner concert; 5:30, Dugget bursau program, 11:05, dance program.

WEAF, New York, N. Y. (491.5m-610kc), 8-12 midnight, dinner music; Goldman band concert; Joan Ruth, sopranc; grand opera, "Magic Flute"; Palais D'Or orchestra.

WFI, Philadelphia, Pa. (394.5m-760kc), 3 p. m., National track and field championships, Sesquicontennial

grounds.

'GR, Buffale, N. Y. (319m-940ke), 6:30 p. m., Knell's

Tokio dance orchestra; 8, comedy program; 8:30,

WEAF; 10:30, chorus; 11, Vincent Lopez Hotel Statler

dance oxychotec

WEAF; 10:30, chorus; 11, Vincent Lopez Hotel Statler dance orchestra.
WHAR, Atlantic City, N. J. (275.1m-1090kc), 8 p. m.. Seaside hotel trio; 11, Follies Bergere dance orchestra.
WHN, New York, N. Y. (361.2m-830kc), 6:30 p. m., WHN Moyie elub; 7:30, Joe Ward's Swanee entertainers; 8, Roseland dance orchestra; 8:25, "Storage Batteries," H. B. Shonti; 8:30, Gengre's surprise; 9, Leverich Three and "Peter the Great"; 9:20, Leverich Three and "Peter the Great"; 19:20, Leverich Threa and "reter the Great"; 10:30, Leroy Smith's orchestra; 11:30, Club Alabam orchestra; 12, Silver Slipper orchestra.

Three and "Peter the Great": 10. Palisades Amusement park orchestra; 10:30. Leroy Smith's orchestra; 11:30. Club Alabam orchestra; 12; Silver Slipper orchestra.

WIP. Philadelphia, Pa. (508.2m-590ke), 6:05 p. m., Benjamin Franklin concert orchestra.

WIAR, Providence, R. I. (305.9m-980ke), 7:45 p. m., musicale; 9. WEAF; 10, WEAF.

WIZ, New York, N. Y. (454.3m-660ke), 7:55 p. m., John B. Kennedy; 8. Maxwell House Coffee ensemble; 9:30, Fireside Boys; 10:45, Harry Leonard's Waldorf-Astoria Grill orchestra.

WLW. Cineinnati, Ohio (422.3m-710ke), 7 p. m., dinner concert, Hotel Glbson, orchestra; 7:30, theatrical feature, talk on "Eyes," Dr. Clarence H. Kaufman; 7:40, continuation, Hotel Glbson concert; 8, the Crosley Salon orchestra; 10, dance program, Calico Cat.

WLWL, New York, (288.3m-1040ke), 9:15 p. m., piano recital; 9:30, studio program; 10, study club; 10:15, sons;; 10:30, ensemble.

WMCA, New York, N. Y. (340.7m-880ke), 6:30 p. m. Ernie Golden and his Hotel McAlpin orchestra; 7:15, Ernie Golden and his Hotel McAlpin orchestra; 9:15, Hardman hour of music; 10:30, Woodmansten Inn orchestra; 11, Jack Denny's orchestra; 12, McAlpin entertainers.

WNYC, New York, N. Y. (268-570ke), 6 p. m., plano selections.

Rough Grand Rapids, Mich. (241.8m-1240ke), 9 p. m., Corduroy Tire Little sympbony orchestra; 10:03, Savutime program; 10:35, Grand Rapids company period; 11, Wild and Wooly Worker; elub, 24th Woodpli. Wofk, Newark, N. J. (405.2m-740ke), 6:30 p. m., Shelton ensemble; 7:30, Brooklyn Eagle program; 8, Newark Philharmonic band; 8:43, Klein's Serenading Shoered grill orchestra; 11:15, Ben Bernie's Berkeley Cateret grill orchestra.

WSAI: Cincinnati, Ohio (325.9m-920kc), 10 p. m., musicale.

Eastern Standard or Central Daylight

Eastern Standard or Central Daylight

Eastern Standard or Central Daylight
Saving Time Stations

WBAL, Baltimore, Md. (245.8m-1220ke), 6:30-7:30
p. m., WBAL dinner orchestra; 8-8:30, Howard R.
Thatcher, organist; 8:30-9, WBAL male quartet; 9-10,
WGHB, Clearwater, Fla. (265.3m-1130ke), 8:30-10 p. m.,
directified program: Caroline Lee, "The Virginia
Give andner Spanist gular; Max Hardett, pianist.
WGHP, Detroit Mich. (270.1m-110ke), p. m.,
emorer; 8, 121-1 a, m., Gerald Marks orchestra; T. Stanley Perry,
tenor; Mona Perkins, contralets; 8:30-9:30, Famous
Composer's hour; 9:30-10, Little symphony orchestra,
soloists; 12-1 a, m., Gerald Marks orchestra.
WGY, Schonectady, N. Y. (379.5m-790ke), 5:30 p. m.,
dinner program; 6:30-7:15, patriotic program, WGY
orchestra; 8-8:30, patriotic program, WGY
visconti's orchestra; 7:30, theatrical feature; 7:40, Visvisconti's orchestra; 7:30, theatrical feature; 7:40, VisWGC, Nachimota, D. C. (468.5m-640ke), 5-6:20 p. m.,
WEVA, Stehmond, M. (268.5m-100ke), 9:10 p. m.

WRC, Washington, D. C. (468.5m.640kc), 5-6:20 p. m., U. S. Navy band.
WRVA, Richmond, Va. (256.3m.1170kc), 9:10 p. m., patriotic program; 10:30, Richmond hotel orchestra, WTAM, Cleveland, Ohio (389.4m.770kc), 6 p. m., Hollende hotel orchestra; 8, Willard symphony; 9, studio program; 10, Willard symphony; 9, studio program; 10, Willard symphony; 9, studio program; 10, Goldman hand concert; 9, grand opera; 10:05-10:30, Capitol theater organ.
WWI, Defroit, Mich. (352.7m.850kc), 6 p. m., dinner concert; 7:30, Goldman hand concert; 9, grand opera; 10:05-10:30, Capitol theater organ.

Central Standard Time Stations

CENTRAL STANDARG 11ME STANDARG KFAB, Lincoln, Nehr, (340, 7m. 880kc), 5:30-6:30 p. m., dinner concert; 8:30-10:30, Old-Time tune night. KFH, Wichita, Kans. (267.7m-1120kc), 7 p. m., Gage Brewers' Hawaiians; 7:40, Harold Mahaney, Velma Varner; 11, Forrest Markle, Al Hiner, Lassen Harmonizers. KFNF, Shenandoah, lowa (263m-1140kc), 7 p. m., concert

KFNF. Shenandoah, Iowa (263m-1140ke), 7 p. m., concert.

KMA. Shenandoah, Iowa (252m-1190ke), 9-10 p. m.,
Corey and Carl; Elise band.

KMOX. St. Louis, Mo. (280.2m-1070ke), 6:30 p. m.,
Jacquinot Jules, organist; 7. KMOX Radio orchestra;
Lango Slsters; 8, KMOX Radio orchestra; 9:30, Bamalogue; 10, KMOX Radio orchestra; 0:30, Bamalogue; 10, KMOX Radio orchestra; 9:30, Bamalogue; 10, KMOX Radio orchestra; 9:30, John
Woodward program; Inner Circle candy night; Bernard
Holliday, pianist; Orin Miller, clarinetist; Morie Meacham, eornetist; Leighton White, violinist; 9, Francis
Potter, fretted instruments; 10, Marte Salisbury violinist; Olivetta Salisbury, pianist; Kathryn Skinner,
cellist; 11, Hotsy Totsy hour.

KPRC, Houston, Texas (296.9m-1010kc), 7:30 p. m.
Eddie's syncopators; 8, Dr. Earle J. Shay, tenor; 8:15,
dance music.

dance music.

KSO. Clarinda, lewa (241.8m-1240kc), 8 p. m., Hay

KSO, Clarinda, Iowa (241.8m-1240kc), 8 p. m., Hay Mow Five.

KV00, Bristow, Okla. (374.8m-800kc), 6-9 p. m., Mrs. J. C. Weaver, "Oklahoma's Sweetheart of the Air."

KWWG, Brownsville, Texas (277.6m-1600kc), 8:30-9:30 p. m., Beth Sewell, pianist; 8:45-9:15, Mrs. R. W. Sutherland, contralto; Mrs. Billy Ransome, pianist; 9:15-9:30, Mr. Chitwood, old fiddler; 12:01-1 a. m., novelty and jazz.

WADC, Akren, Ohio (258.5m-1160kc), 9 p. m., Roseland orchestra.

WBAP, Fort Worth, Texas (475.9m-630ko), 7:30-8:30 p. m., musicalc; 9:30-11, concert; 11, musicalc.

WCOO, Minneapolis-St. Paul, Minn. (416.4m-720kc), 6:15 p. m., St. Paul hotel concert orchestra.

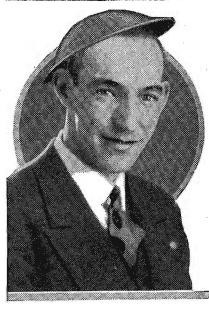
WCOA, Ponsacola, Fla. (222m-1350kc), 7 p. m., 13th Const Artillery band; Silva's Jazzomaniacs; First Methodist choir.

WFAA, Dallas, Texas (475.9m-630ko), 6:30-7:30 p. m., Honey boys orchestra; 8:30-9:30, Sears-Roebuck program.

gram. WHB, Kansas City, Mo. (365.6m-820kc), 7-8 p. m., WHB, Kansas City, Mo. (365.6m.820kc), 7-8 p. m., Sweeney Radio orchestra.
WMC, Memphis, Tenn. (499.7m.600kc), 8:30 p. m., Missouri Pacific Diamond jubilee.
WOAI, San Antonio, Texas (394.5m.760kc), 8:30 p. m., Sunshine Laundry orchestra.
WOAW. Omaha, Nebr. (526m.570kc), 6 p. m., Hugo G. Heyn, marimba soloist; Emil B. Hofman, pianist; 6:50, orchestra; 9, classical.
WOG, Davonport, Iowa (483.6m.620kc), 1-2 p. m., old folk's musicale; 8-8:30, Presbyterian church; 9:30-10:30, Palmer Little symphony.
WRR, Dallas, Texas (245.8m.1220kc), 6-7 p. m., Edgra Norris, pianist; 8-9, Times Herald artists concert; Emmet Peck, violinist.
WSM, Nashville, Tenn. (282.8m.1060kc), 7 p. m., dinner concert; 8, Mrs. William Dumm, soprano; 10, Vito and his Radio five.
WSMB, New Orleans, La. (319m.940kc), 8:30-10:30 p. m., Dixola Novelty orchestra; Strand theater orchestra.

p. m., Dixola Novelty orenestra; Strand Blockers, chestra, WSUI, lowa City, lowa (483.6m-620kc), 8:10, readings.

# N. Y. PHILHARMONIC AGAIN AT WJZ



Polks meet Omaha's songster, Eddie Stew art. His specialty is jazz singing, but he has been heard featuring ballads and lyrics at the Blah club of WOAW. Notice the insignia he wears on his head.

#### Monday, July 5

Mountain Standard Time Stations KOA, Denver, Colo. (322.4m-930kc), 6:30 p. in., Brown Palace string orchestra; 8. Scheuerman's Colorado orchestra; 8:15. Margaret Kephart, pianist; Mrs. W. C. Mount, reader; Mrs. E. Humphrey Smith, violinist; KOA orchestra.

Pacific Standard Time Stations

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (457m-642ke), 7-8 p. m.,
Owen Fallon's Californians; 8-9, varled program; 9-10.

Walter M. Murphy Motors company program, RPO;
10-11, popular program, Meiklejohn Brothers.

KFWB, Hollywood, Calif. (252m-1190ke), 7:30-8 p. m.,
program, Dr. Ralph Mitchell and Associated Dentists;
8-9, program, Sealy Mattress company; 9-10, program,
American Dye Works; 10-11, Warner Brothers fiolie.

KGO, Oakland, Calif. (361-2m-830ke), 8 p. m. Amphilon

tric; 8:05, "Norwestian Rhapsodie"; 9-15, "Symposium

of New Education"; 9:30, speaker, U. of Calif.

KGW, Portland, Ore. (491-5m-610ke), 6-7 p. m., dimer

concert; 8-9, organ recital; 9-10, vaudeville entertainment; musical acts, Funch and Judy. Columbia Knit

Mermaids; 10-12. Cole McElroy's dance orchestra.

KTAB, Oakland, Calif. (239-3m-1250ke), 7-7:30 p. m.,

shopping hour; 8-10, program.

#### Tuesday, July 6

Headliners Today

Atlantic Eastern Central Mountain Pacific 9:30 p. m. 8:30 7:30 6:30 5:30 WHAS (399.8m-750ke), Carl Zoeller's Molodists. WMCA (340.7m-880ke), Columbia Park entertainers. 10 9 8 7 6 6 WBAL (245.8m-1220ke), Baltimore City Park orchestra.

chestra.
WHB (365.6m-820kc), Ukulete songsters.
WOC (483.6m-820kc), Keithsburg community band.
WOOD (241.8m-1240kc), World's Championship
Roundup.

Roundup. 9:30 8:30 7:30 6:30 WOAI (394.5m-760kc), Gerbhardt Mexican players. 11 10 9 8 7 WOJ (447.5m-670kc), First National Violin quartet. 12 m. 11 10 9 8 NHJ (495.2u-740kc), All Times night. 1a. m. 12 m. 11 10 9 KF1 (467m-642kc), Cowle's bag pipe band.

Tuesday, silent night for: CFCA, CKNC, CNRC, CNRE, CNRM, CNRO, CNRT, CNRW, KFH, KFKX, KFUO, KOA, KOB, KTAB, WAHG, WAMO, WBBR, WCAP, WGCP, WHAZ, WOR, WOS, WSMB, WSUI, WTAM, WTIC.

#### Atlantic or Eastern Daylight Saving Time Stations

Time Stations

WCAE, Pittsburgh, Pa. (461.3m-650kc), 6:30 p. m., dinner concert. William Penn hotel; S. WEAF; 8:30, WEAF; 9. WEAF; 10. Moment musicale.

WCAU, Philadelphia, Pa. (277.6m-1080kc), 7:30 p. m., Snctlenburg instrumental trio; S:10, the Three Brothers; S:25, Peter Ricci, barritone; 8:45, Higgins and Burke, songs; 9, Kuehnle's artists; 9:30, Robert Fraser, blind gospel singer; 10, recital; 10:15, Eddie Malle and his entertainers; 10:30, Cathay orchestra.

WEAF, New York, N. Y. (491.5m-610kc), 6 p. m., dinner mulse; 8, Grand Prize Eurckas, WEEI, WFI, KSD, WCAE, WWJ, WCSH, WSAI WFAG, WCC, WCKSH, WJAR, WCCO, WIAM, WJAR; 8:30, Gold Dust Twins, WEEI, WFI, WCAE, WGR, WWJ, WCSH, WJAR, WCCO, WIAM, WJAR; 8:30, Gold Dust Twins, WEEI, WFI, WCAE, WGR, WWJ, WCC, WCSH, WJAR, WCCO, WIAM, WTAM, KSD; 9, Everendy hour, WEEI, WFI, WCAE, WGR, WWJ, WCC, WCSH, WJAR, WCCO, WIAM, WTAM, KSD; 10, variety half hour; 10:30, orchestra; 11:12, Buffalodians dance orchestra.

WEBI, New York, N. Y. (272.6m-1100kc), 7 p. m., Dan Barnett's orchestra; 7:30, Luna's Marine band, WFI, Philadelphia, Pa. (394.5m-760kc), 6:45 p. m.,

Marine band.
WFI. Philadelphia, Pa. (394.5m-760kc), 6:45 p. m.,
Bellevue Stratford dance orchestra; 8, WEAF.
WGR, Buffalo, N. Y. (319m-940kc), 6:30 p. m., Vincent Lopez Hotel Studer dance orchestra; 8, WEAF.
WHAR, Atlantic City, N. J. (275.1m-1090kc), 8 p. m.,
Servida beled trie

orchestra; 11:30, Sophie Tucker's playground; 12, Country club orchestra.

WIP. Philadelphia, Pa. (508.2m-590kc), 6:05 p. m., Monte Cross, "old-timer"; 6:15, Benjamin Franklin concert orchestra; 8, program, Marine studio; 8:30, Murphy's minstrels; 9, Chalfonte-Haddon Hall duatrio; 10:15, Emo's weekly movie talk; 10:30, popular and classical piano recital, Karl Bonawitz; 11, Million Dollar Pier dance orchestra; 11:30, Silver Slipper club dance orchestra

club dance orchestra. WJAR, Providence, R. I. (305.9m-980kc), 8-10 p. m., WEAD.

WLIT, Philadelphia, Pa. (394.5m-760kc), 7:30 p. m., Benjamin Franklin El Patio dance orchestra. WLWL, New York, N. Y. (288.3m-1040kc), 9 p. m., songs; 9:30, quartet; 9:45, violin solos; 10, quartet; 10:15, tenor solos. WMCA, New York, N. Y. (340.7m-880kc), 7 p. m., Hofbrau Haus entertainers; 8:15, "Musele Shoals"; Time-O-Stat musical program; 9, Paul Whithman's Picadilly players; 9:30, Columbia Park entertainers; 10:30, Woodmansten Inn orchestra; 11, Ernie Golden and his Hotel McAlpin orchestra; 12, McAlpin entertainers. WNYC, New York, N. Y. (526m-570kc), 6:35 p. m., plano selections. Pa. (508.2m-590kc), 7:30 p. m., Adelphia Roof Garden orchestra; 6:30 p. m., Jacques Jacobs, Hotel Sheltonersmble. WTAG, Woroster, Mass. (267.7m-1120kc), 8-8:30 p. m., WEAF; 10-11:30, WEAF.

### Eastern Standard or Central Daylight

Saving Time Stations

KYW, Chicago, III. (535.4m-560kc), 7, p. m., Chicago
Evening American studio; 8, program, Congress hotel;
10-10:30, classical concert; 10:30-11:30, Congress carnival

Defining American Scooley, p. popision, Congress notel; 10-10:30, classical concert; 10:30-11:30, Congress carnival.

WBAL, Baltimore, Md. (245.8m-1220kc), 6:30-7:30 p. m., WBAL dinner orchestra; 8-9, Celia Brace, violinist; George Bolek, pianist; 9-10, Baltimore City Pork orchestra.

WBBM, Chicago, III., 2 (225.4m-1330kc), 8-12 midnight, Moss Covered melodies; Howard Osborne's vanity fair orchestra; Matched-Unit quartet.

WCBD, Zion, III. (344.6m-870kc), 8 p. m., mixed quartet, ensemble, colestial bells; Messrs, Alexander DePewand Erwin Rondall, duettists; J. D. Thomas, baritone; Mary Sweeney, soprano; Carl Newcomer, saxophonist.

WEBH, Chicago, III. (370.2m-810kc), 7-8 p. m., Edgewater Beach hotel orchestra; Kathryn Forres; Lyddin Lochner; 9:10-10, Uptown theater; 11-12:30 a. m., Gall Bandell; Syncopating Serenaders.

WENR, Chicago, III. (270.5m-1130kc), 6-7 p. m., Rauland lyric trio; 8-9, Arthur Dunas popular program; 3-10, All-American Ploneers.

WGES, Oak Park, III. (249.9m-1200kc), 5-7 p. m., Paradise plane; 8-9, Charles Rothermel's School of Music; 11-1 a. m., Clarence Theders, Flo and Ray, Lew Butler; Peggy O'Neill; Esther Richards; Bobb Lee.

WGHP, Detroit, Mich. (270.1m-1110kc), 6 p. m., dinner

Lee.
WGHP, Detroit, Mich. (270. Im-1110kc), 6 p. m., dinner concert; 8, Skylark dance band; Harry Hayes, banjoist; saxophone quartet; Gladys Sauderson and her utte; Emil Cote, basso; 12-1 a. m., Gerald Marks'

uke; Emil Cote, basso; 12-1 a. m., Gerald Marks' orchestya.

WGN, Chicago, III. (302.8m-990kc), 6:35-7:15 p. m., Blackstone string quintet. Drake concert ensemble; 8-9, WEAF; 9-10, "Arabian Nights"; 10-10:10, Sam 'n Henry; 10:10-11, musical program, ensemble; 8-9, WGY, Schenectady, N. Y. (379.5m-790kc), 6:45 p. m., John Lloyd, tenor; Edna Youman's contralto; 7:30, WIZ; 8. Minstrel show; 9, WJZ.

WHT, Chicago, III. (399.8m-750kc), 7:10 p. m., Al Carney, organist; 7:30, chapet; 10:15 (238m-1260kc), Cinderella cafe orchestra; 10:30 (399.8m-750kc), Fat Barnes and Al Carney; 11, Art Becker, planist; 12, your hour league.

WIBO, Chicago, III. (225.4m-1330kc), 6-8 p. m., dinner concert; WIBO string trio; Chester Newman, baritone; 12, jamboree; Ted Fiorito, planist; Dan Russo, violinist; Marie Tully, songs; Wayne Myers, monologist, artists.

12, jamhoree; Ted Fiorito, planist; Dan Russo, violinist; Marie Tully, songs; Wayne Myers, monologist, artists.

WJAZ, Chicage, III. (329.5m-910kc), 9-12 midnight, Earl Hoffman's Chez Pierre orchestra; Frances Rosemary Schieb, soprano; Henrietta Nolan, violinist; William Hayden, tenor.

WJJO, Moossheart, III. (370.2m-810kc), 5:30-7 p. m., dinner concert; Jack Nelson; Howard Peterson, organist; Palmer House symphony players; Victorians; 8-9, child artists; 10-11, Victorians; 12:30 a. m., Settin' Un hour.

WLIB, Chicago, III. (302.8m-990kc), 7:15-7:30 p. m., dinner music; 7:30-8, WEAF; 11-11:20, Correll and Gosden; 11:20-1 a. m., Liberty studio ensemble; Ambrose Larsen, organist; Tommy Thatcher's Drake hotel dance orchestra; Fred Hamm's Purple Grackle Universitae.

estra. Chicago, III. (344.6m-870kc), 6:30 p. m., Elsi Look, organist; 6:45, College Inn orchestra; 7:15, Ings. U. of Chicago; 7:30, Al Melgard, organist , Voice of the Listener; 8:10, College Inn or-

Mae Look, organist; 6:13. College Inn orenestra; 7:15. readings, U. of Chicago; 7:30, Al Meigard, organist; 7:50, Voice of the Listener; 8:10, College Inn orenestra; 7:150, Voice of the Listener; 8:10, College Inn orenestra; WLW, Cincinnati, Ohio (422.3m-710kc), 7:10 p. m., "Plano Memories," Adelalde Apfel; 7:30, dinner music, Castle Farm; 8, the Crosley Burnt Corkers; 9, concert, Formica symphony orehestra; 10, Henry Theis Castle Farmers.

WMAQ, Chicago, Ill. (447.5m-670kc), 6 p. m., Chicago theater organ; 6:30, Hotel Lasalle orchestra; 8:40, music; 9:20, musical program, chimes.

WMBB, Chicago, Ill. (449.9m-1200kc), 7-8 p. m., Trianon enemble; Hilda Hinrichs, cellist; Margaret Conrad, violinist; Preston Graves, planist; Genevieve Burnham, operatic soprano; 9-11, Trianon orchestra; Woodlawn theater orchestra; De Wanner; Nora Noralne and Lou Stevers, popular program, Nora Noralne and Lou Stevers, popular program, Porand Lous (11. (217.3m-1380kc), 6-7 p. m., Tip-Top, In; 10-1:30 a. m., Tearney's Town club orchestra; Pershing Falace orchestra; Midway Gardens orchestra; Capitol theater program, studio program.

WOO, Grand Rapids, Mich. (241.8m-1240kc), 9 p. m., Rounduy; 10:05. Claude Lee, Roy Clark, Sally Simpkins, Jim Forshey, Melissa Dvoruk.

WOJ, Chicago, Ill. (447.5m-670kc), 7-8 p. m., Rainbo Gardens orchestra; Lee Lindig, tenor: 10-2 a. m. Jerry Sullvan; Happy Harry, Bert Davis; Romo Vincent; Nubs Allen; Johnny Foat.

WRC, Washington, D. C. (468.5m-640kc), 7 p. m., WEAF; 7:30, musicale; S. WEAF; 9, concert.

WSMS, Chicago, Ill. (275.1m) 0000kc), 6 p. m., or-

s, wid; sisu, announced; 10:30, Meyer Davis Le Paradis band.

WSAI. Cheinnati. Ohio (325.9m.920kc), 7 p. m., WEAF; 7:30, musicale; 8. WEAF; 9. concert.

WSWS. Chicage, 111. (275.1m.1090kc), 6 p. m., orchestra; Ruth Metcalfe, Peter Grosse; 8, Jean St. Anne. Christian A. Grimm; Terrace Gardens orchestra; 10. National violuin institute string quartet; 12-1 a. m., Wittiching hour.

WTAM, Cleveland, Ohio (389.4m.770kc), 6 p. m., State theater vaudeville; 7-10, WEAF; 10, studio program; 11, Euclid Beach Park orchestra.

WWJ, Ostroit, Mich. (352.7m.850kc), 6 p. m., dinner concert; 7, WEAF.

#### Central Standard Time Stations

KFAB. Lincoln, Nebr. (340.7m-880ke), 5:30-6:30 p. in. Llffle symphony orchestra; 8:05-10:30, University of Nebraska.

KFDM, Beaumont, Texas (315.6m-950kc), 7:30-8 p. m., children's program; 8-10, band.

KFNF, Shenandoah, lowa (263m-1140kc), 7 p. m.,

(KFNF, Shenandoah, 10wa (255m-1190kc), a p. m., orchestra, challenge, Mc. (440.9m-680kc), 8 p. m., Hazel Cook, organist; Pauline James, soprano; Cammie Johnston, pianist.

KMA, Shenandoah, 10wa (252m-1190kc), 9-11 p. m., Mandolli musicians.

KMOX, St. Louis, Mc. (280.2m-1070kc), 6:30 p. m., Jacquinot Jules, organist; 7, KMOX Radio orchestra; Star Musical Bears; 8, light opera selections, Joseph Marcel McWhorter; Rolf Gaudard; 9, KMOX Radio orchestra; 9:30, F. D. Anderson, bartione; 10, KMOX

Ford's Texas trumpeters; 8:30-9:30, Henri LaBonte and his varied performance; 11-12, Jommy Joy's orchestra.

WHAS, Louisville, Ky. (399.8m-750ke), 7:30-9 p. m., Carl Zoeller's Melodists.

WHB, Kanasa City, Mo. (365.6m-820kc), 7-7:30 p. m., organ concert; 8-9:30, Ukulele songsters, Harry Taylor, Sam Martin: Mrs. A. Taylor, pianist; Mrs. Lilllen Valentine, soloist.

WHO, Des Moines, Iowa (526m-570kc), 7:30-8 p. m., Philbrock and his Younker tea-room orchestra; 8-9, Rankers' Life trie; Stewart Watson, burtione.

WMC, Memphis, Tenn. (499.7m-600kc), 8:30 p. m., music; 11, Britlling's Cafeteria orchestra.

WOAH, San Antonio, Toxas (394.5m-760kc), 8:30 p. m., Gerbhardt Mexican players.

WOAW, Omaha, Nebr. (526m-570kc), 6:20 p. m., popular song period; 6:50, orchestra; 9, George H. Lec company.

lar song period; 6:30, orenestra; 9, George H. Lee company. WOC. Davenport, lowa (483.6m-620kc), 6-6:30 p. m., WEAF; 8-9, Keithsburg community band. WRR, Dallas, Texas (245.8m-1220kc), 6:10-7 p. m., Jack Gardner's orehestra; 8-9, program. WSM, Nashville; Tenn. (282.8m-1060kc), 8 p. m., Daisy Sartain, teacher of plano.

#### Mountain Standard Time Stations

KFXF, Colorado Springs, Colo. (249.9m-1220kc), 8:30 p. m., Colorado Spring jubilee singers, KOA, Denver, Colo. (322.4m-930kc), 6:30 p. m., Brown Palace string orchestra.

#### Pacific Standard Time Stations

FI, Los Angeles, Calif. (467m-642kc), 7-8 p. m., Virginia hallroom orchestra; 8-9, screen artists string quartet; 9-10, Cowie's bagpipe baud; 10-11, Packard Bratio club. Virginia hallroom orchestra; 8-9, screen artists string quartet; 9-10, Cowle's barpipe band; 10-11, Packard Radio olub.

KFWB, Hollywood, Calif. (252m-1190ke), 7-7:30 p. m., program, Morris and company; 7:30-8, program. White Auto company; 8-9, Bill Hatch's orchestra and solicists; 9-10, program, American Erake Testing Machine company; 10-11. Warner Erothers froite.

KGO, Oakland, Calif. (361.2m-3830ke), 8 p. m., Eveready program, "Hits" from the comic operas; 9-10, Pilgrims' hour; 10-12, danco music.

KGW, Portland, Ore. (491.5m-610ke), 6-7 p. m., dinner concert; 10-12, dance music. Multuomah hotel, Herman Kenin's dance orchestra; Curt Kvamor, pianist.

KHJ, Los Angeles, Calif. (405.2m-740ke), 6:30-7:30 p. m., weekly visit, Queen Titania and Sandman; 8-10, All Times night.

KPSN, Pasadona, Calif. (315.6m-950kc), 8-9 p. m., Star-News concert hour, Star-News ensemble.

KTAB, Oakland, Calif. (239.9m-1250kc), 7-7:30 p. m., shopping hour; 8-10, program.

#### Wednesday, July 7

Headliners Today

Atlantic Eastern Central Mountain quartet.
10:15 9:15 8:15 7:15 6:15
WEBJ (272.6m-1100kc), Michele Bontempo, Italian

bartione. 9:30 8:30 7:30 6:30 KFAB (340.7m-880kc), Request night. 11 10 9 8 7 WLS (344.6m-870kc), Mediene show. 11:30 0:30 9:30 8:30 7:30 KMOX (280.2m-1070kc), "Crinoline Days." 12 m. 11 10 9 8 WQJ (447.5m-670kc), First National Violin quartet,

Wednesday, silent night for: CKAC, CKNC, CNRA, CNRC, CNRE, CNRM, CNRR, CNRT, CNRV, KFXF, KGO, KLOS, KMMJ, KOIL, KPSN, KTAB, WAB, WBAL, WBAP, WBBR, WCBO, WFAA. WGBF, WGCP, WHAR, WHAZ, WIP, WJAZ, WMC, WOAI, WOAW, WPG, WRC, WRR, WSUI.

#### Atlantic or Eastern Daylight Saving Time Stations

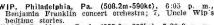
Time Stations

CFCA, Toronto, Can. (356.9m.840ke), 11 p. m., Gilbert Watson and his orchestra.

WCAE, Pittsburgh, Pa. (461.3m.650ke), 6:30 p. m., dinner concert, William Penn hotel; 8, WEAF; 8:30, WEAF; 9, concert; 10, WEAF.

WCAU, Philadelphia, Pa. (277.6m.1080ke), 7:30 p. m., N. Snollenburg and company; 8:10, Hotel Pennsylvania orchestra; 8:30, Miller piano period; 9, White and Mazer songs; 9:45, Senator Hassenpfeffer; 10, Matrice Patton, tenor; 10:30, Zochuns and Herscher, songs; 10:45, Frank Cook, old-time songs; 11, Artie Bittong's cheer-ups.

Three Musical Mirth Makers Three Musical mirth maters are George Bensen, Austin Ros-mer and Bert Dolan, below. With piano, saxophone, violin and vocal solos these popular young men entertain every Wednesday night at WBZ.



WIP, Philadelphia, Pa. (508.2m-390kc), 6:05 p. M., Benjamin Franklin concert orchestra; 7, Uncle Wip's bedttime stories.

WIAR, Providence, R. I. (305.9m-980kc), 7:30-9 p. m., WEAF; 9, musicale; 10, tabloid musicale.

WIZ, New York, N. Y. (454.3m-660ko), 7:05 p. m., Idotel Madison eoncert orchestra; 8. Imperial Imps; 8:30, Stadium Philharmonic concert; 10:30, Hotel Aster roof orchestra.

WLIT. Philadelphia, Pa. (394.5m-760kc), 8:30 p. m., concert, Progress Paint company; 9, Monteo artists; 10, Arcadia orfo dance orchestra.

WLWI, New York, N. Y. (288.3m-1040kc), 8:30 p. m., Hearthistde Harmonizors; 9:15, piano recital; 9:30, contralto; 10:15, ensemble.

WMCA, New York, N. Y. (340.7m-880kc), 6:30 p. m., Emile Golden and his Hotel McAlpin orchestra; 7:35, Ernic Golden and his Hotel McAlpin orchestra; 7:35, Ernic Golden and his Hotel McAlpin orchestra; 7:35, Tappen's orchestra; 8, X-1T Hawatians; 8:30, Woodmansten Jnn orchestra; 10:30, Stauch's orchestra; 11, Jack Denny's orchestra; 12, McAlpin entertainers.

WNYC, New York, N. Y. (526m-570kc), 7:30 p. m., piano selections.

WNYC, New York, N. Y. (526m-570kc), 6 p. m., piano selections.
WOO, Philadelphia, Pa. (508.2m-590kc), 7:30 p. m., Sylvania, dance orchestra; 8. WEAF; 10, Fox theater studio program; 10:30. Bltz Carlton dance orchestra wOR, Newark, N. J. (405.2m-740kc), 6:30 p. m., Hotel Shelton enscoble; 8. French Line program; 9. Arthur Pryor's band; 9:30, Monterey soclety orchestra; 10:45. Monterey concert quintot; 11:15, Ben Bermie Berkeley Carlarct grill.
WTAG, Worcester, Mass. (267.7m-1120kc), 6-7 p. m., WTAG orchestra; 8-8:30, WEAF; 8-10, musicale; 10-11, WEAF.

#### Eastern Standard or Central Daylight Saving Time Stations

KYW, Chicago, III. (535.4m-560kc), 7 p. m., musical program; 9-10:30, classical concert; 10:30-12 Congress

carnival.

WBBM, Chicago, III. (225.4m-1330kc), 8-10 p. m., Budy
Winters, baritone; Alemite orchestra; 12-2 a. m.,

Winters, batifone; Alemite orchestra; 12-2 a. m., Alemite orchestra.

WEBH, Chicago, III. (370.2m-810kc), 7-8 p. m., 0sbom's orchestra; Florence Behrend; Frank Greff;
Frank Bordner; 9:15-10, Osborn's orchestra; Frank
Bordner; Lawrence Salerno; 11-12:30 a. m., orchestra;
Kay Ronayne; Florence Behrend.

WENR, Chicago, III. (265.3m-1130kc), 6-7 p. m.,
Rauland Ivric trlo; 8-10, All-American Pioneers; 12-2
a. m. midnite frolic.

Rauland lyric trlo; 8-10, All-American Pioneers; 12-2 a. m., midnite frolic W6ES, Oak Park, Ill. (249.9m-1200ke), 5-7 p. m., Para-dise plane; 8-9, Frank Sylvano, Louis Panico, Guyon's Paradise ballroom orchestra; 11-1 a. m., Casey and Gervais; Guyon's Paradise ballroom orchestra; Melody Girls. WGHB, Clearwater, Fia. (265.3m-(130ke), 8:30-10 p. m., Diversified program: Mr. and Mrs. Charley A. Waller, old-time songs and duets; Mrs. Lucian Lucas, planist.

waller, old-time songs and duets; Mrs. Lucian Lucas, plantst.
WGHP. Detroit, Mich. (270.1m-1110kc), 6 p. m., dinner concert; 8-10. Little symphony orchestra; quartet; A. C. Jackson, baritone; Leona Mitchell, soprano; 12-1 a. m., Gerald Marks' orchestra.
WKN, Chicago, III. (302.8m-990kc), 6:35-7 p. m., Blackstone string quintet; 9-10. concert; 10-10:10. Sam 'n' Henry; 10:10-10:20, studio music; 10:20-11, Pepper party.
WGY, Schenectady, N. Y. (379.5m-790kc), 6:30 p. m.

stone string quintet; 9-10, concert; 10-10-10, Sam 'n' Henry; 10:10-10:20, studio music; 10:20-11, Pepper party.

WGY, Schenectady, N. Y. (379.5m-790kc), 6:30 p. m., program, Eastman theater, WHAM.

WHT, Chicago, III. (399.8m-750kc), 7:10 p. m., organ; 7:50, chapet; 8:30, (238m-1260kc), studio features; 12 midnight (399.8m-750kc), vour hour league.

WIBO, Chicago, III. (329.5m-1260kc), studio features; 12 chicago, III. (225.4m-1330kc), 6-8 p. m., dinner concert, string tro; Dorothy Rae, soprano; Charles Champlin, baritone; Frank Greif, tenor; trlo; 10-12, popular program; vocal, instrumental.

WJAZ, Chicago, III. (329.5m-910kc), 9-12 mid., Earl Hoffman's Chez Pierre orchestra: selections, Vocal studio of Alexander Nakutin; selections, plano studio of Edwin J. Gemmer; Chez Pierre Hawaiian guartet.

WJ1D, Mooseheart, III. (370.2m-810kc), 5:30-7 p. m., dunner concert; Jack Nelson; Howard Peterson, organist; symphony players; Victorians; 8-9, child artists, solos, bands; 10-11, Victorians, Isabel Defaut, Simeon Oliver, planist; R. Thomas; 12:30 a. m., Settin Up hour.

WL1B, Chicago, III. (302.8m-990kc), 7:15-7:30 p. m., dinner music; 7:30-7:50, Pattison Coates, baritone; Edward Barry, planist; 7:50-8, Auld Sandy; 8-9, WCAF; 12:30-1, a. m. Ambrose Latreson, organists, Marlos Ludwig, harpist; 7:30, Al Meigard, organist; 8:30, Midwest quartet; 9, WLS, trio; 10, Medicine show, Krueger and Dillon; 11, Tin Pan Alley.

Alley
WLW Cincinnati, Ohio (422.3m-710kc), 7 p. m., dinner
hour concert, Hotel Gibson; 8 p. m., recital, students
of summer classes, concert, Elke' band; 10, Thorobred entertainment; 11,
the Cincinnati Post program,
WMAQ, Chicago, III. (447.5m-670ko), 6 p. m., Chicago
theater organ; 6:30, Hotel La Salle orchestra; 8:30,
Whitney trie; 8:55, WMAQ, players, chimes.

Hilda Hopkins Burke, below, is the so-prano who won first place in the Baltimore municipal vocal contest. She has been appointed WBAL soprano and will be heard every Tuesday night at this station.



#### Wednesday, July 7

WMBB, Chioago, III. (249.9m-1200ke), 7-8 p. m., Tria-non duo; Elanor Kaplan, violinist; Monte Blunn, tenor: Preston Graves, pianist; request program; 9-11. Trianon orchestra; Woodlawn theater orchestra, vocal

artists.

WOK, Chicago, III. (217.3m-(1380kc), 6-7 p. m., TipTop Inn string ensemble; 10-1:30 a. m., Tearney's
Town club orchestra; Pershing Palace orchestra; Midway Gardens orchestra; Capitol theater program.

WOOD, Grand Rapids, Mich. (241.8m-1240kc), 9 p. m.,
Willard Battery hour; 16-Fingered Paul; Helen Neuman, Jim Forhsey; Ruth Glaser; Pearl Knudson; Sid
Goldman, Chuck Helwegen's Ramona Gardens orchestra; Minnie DuBey Johnson; 10:05, Atwater Kent
hour.

hour.

WQJ, Chileago, III. (447.5m-670kc), 7-8 p. m., Rainbo Gardens orchestra; 10-2 a. m., Rainbo Gardens orchestra; Melodians; Flo and Ray; Joe Warner.

WRC, Washington, D. C. (468.5m-640kc), 5-6:20 p. m., Marine hand.

Marine band.

WRVA, Richmond, Va. (256.3m-1170kc). 8:45 p. m., songs of the sea, Mariners quartet; 9:30, Robert J. Beadles, organist; 10:30, Carry Me Back to Old

Virginny.

WSAI, Cincinnati, Ohio (325.9m-920), 6:45 p. m., chimes; 7, WEAF; 10, Congress Playing Card string

chimes; 7, WEAF; 10, Congress Playing Card string quartet.

WSWS, Chicago, III. (275.1m-1090kc), 8 p. m., Rita McFawn, Leola Aikman: Josephine Oliver, Tearace Gardens orchestra; 8, Edward Hölt, planist; Terrace Gardens orchestra; 9, Terrace Gardens orchestra; 19, Terrace Gardens orchestra; Helen Snyder; John Clark, hardone; 10, Terrace Gardens dels quintet; 12-1 a. n., Witching hour.

WTAM, Cleveland, Ohio (389.4m-770kc), 6:15 p. m., Hotel Cleveland orchestra; 7:30, WEAF; 8, Public Auditorium program

WTIC, Hartford, Conn. (475.9m-630kc), 7:30 p. m., Capitol theater orchestra; 7:50, talk; 8, Travelors Jongleurs and Unknown Troubadour; 9, Carroll's Palais Royal dance orchestra.

WWJ. Detroit, Mich. (352.7m-550kc), 6 p. m., dinner concert; 7, WEAF; 7:30, News orchestra; 8, dance program; 9, Detroit News orchestra.

Central Standard Time Stations

#### Central Standard Time Stations

KFAB, Lincoln, Nobr. (340.7m.880kc), 5:30-6:30 p. m., dinner concert; 8:30-10:30, musicale.
KFH, Wichita, Kans. (267.7m.1120kc), 7 p. m., Saxophone octet; 7:30, popular songs, Jimmie White, Clovis

phone octet; I and, popular songs, standard recommendation.

KFNF, Shenandoah, Iowa (263m-1140kc), 7 p. m., concert, Henry Field Seed company.

KMA, Shenandoah, Iowa (252m-1190kc), 9-11 p. m..

KMA, Shenandoah, Iowa (252m-I190ke), 9-11 p. m. muslcale.
KMOX, St. Louis, Mo. (280.2m-1070ke), 6:30 p. m., Jacquinot Jules, organist; 7. Gordon Morrison, guitarist; KMOX Radlo orchestra; 8:30-9:30, song cycle, "Germany"; Mrs. Karl Kimmel, soprano; 9:30-11:30, trumpet flourish; "Crinoline Days," Armein Mueller; Royal Radlo drama, "The Weddling Present."
KPRC, Houston, Texas (286.9m-1010kc), 7:30 p. m., Kensington hall dance orchestra; 8. Patrick Brown, bartione; 8:15, dance music; 8:45, Frank Tilton, blind wonder boy pianist; 9, Lillian Richards, Rice hotel songbird.

wonder boy planist; 9, Lillian Richards, Icice nowe, wonder boy planist; 9, Lillian Richards, Icice nowe, songbird.

KSO, Clarinda, Iowa (241.8m-1240ke), 8 p. m., music; 8:30, Edna Bliss, blind planist.

KVOO, Bristow, Okla. (374.8m-860ke), 6-9 p. m., Radio Lirlo; Mascho, Cunningham, Mascho.

WADC. Akron, Ohio (238.5m-160kc) 9 p. m., Roseland dance orchestra.

WCCO, Minneapolis-St. Paul, Minn. (416.4m-720ke), 6-8 p. m., WEAF; 8, midweek church service; 9, musicale; 11:30, Eddie Donstedter, organist.

WCOA, Pensacola, Fla. (222m-1350ke), 7 p. m., A. Morley Darby, splrituals; Rev. George Callahan, planist; Mrs. George Turner, whistler; Frances Keen Villar, vocalist; Harry Davis, tenor; John E. Frenkel; Venetian trio.

vocalist; Harry Davis, tenor; John E. Frenkel; Venetian trio.

WHAS, Louisville, Ky. (399.8m-750ke), 7:30-9 p. m.,
Instrumental quartet; C. C. Shoemaker, tenor.

WHB, Kansas City, Mo. (365.6m-820kc), 7-8 p. m.,
Three Uke Girls; 10:30-11:30, midweek Radio feature.

WHO, Des Moines, lowa (526m-570ke), 6-7 p. m.,
Bankers' Life Little symphony orchestra; 7-8, orchestra; 8-9, Young Brothers, harmony boys; popular songs,
Ralph Starr; Harry Lewis, sololists; Ed Chase and
Paul Blakemore, mandolin and piano sololists; 9-11,
dance program.

dance program.

WOAI, San Antonio, Texas (394.5m-760kc), 8:30 p. m.,
Army night program.

WOC, Davenport lowa, (483.6m-620kc), 6-6:30 p. m.,
WEAF; 9:30-10:30, Erwin Swindell, organist.

WSBT, South Bend, Ind. (275.1m-1090kc), 7-9:30 p. m.,

wsm, Nashville, Tenn. (282.8m-1060kc), 7 p. m., dinner concert; 8, Nellie Lee Moran, soprano; 10, studio

program.

WSMB, New Orleans, La. (319m-940kc), 8:30-10:30
p. m. Schilling's Society screnaders; Marcus show.

#### Mountain Standard Time Stations

ROA. Denver, Colo. (322.4m-330kc), 6:30 p. m. Brown Palace string orchestra; 8, Scheuerman's Colorado orcheste \$1:15, KOA orchestra; Lencaster Smith, baritone; Irls Wilson; corridor Joto Carron, accordionist; KOA orchestra; Harry F. Taylor, tener; Lancaster Smith, baritone; Dorothy Milne, violinist; Ruth Hake Ponte, planist; Instrumental trio; Vera Reynolds, violinist

#### Pacific Standard Time Stations

KF1, Los Angeles, Calif. (467m-642), 7-7:30 p. m. popular program; 7:30-8. Nick Harris detective story 8-9, program. California Petroleum corp.; 9-10 Clarible Patten Wallace, contralto; 10-11, Charles

Clarible Patten Wallace, contraint; 10-11, Chaires Beauchamp, tenor.

KFWB, Hollywood, Calif. (252m-1190ke), 7:30-8 p. m., program, Corduroy Tire stores; 8-9, program, A. V. Shotwell corp.; 9-10, Romola program; 10-11, Warner Brothers (rolic.

KGW. Portland, Ore. (491.5m-610kc), 6-7 p. m., dinner concert; 8-9, concert; 9-10, concert, vocal and instrumental.

Los Angeles, Calif. 405.2m-740ko), 6:30-7:30

huxe program.

KTAB, Oakland, Calif. (239.9m-1250kc), 7-7:30 p. m., shopping hour.

#### Thursday, July 8

Headliners Today ## Headliners Today

Atlantic Eastern Central Mountain Pacific 8:30 p.m. 7:30 6:30 5:30 4:30 WRC (468.5m-640ke), WIZ (454.3m-650ke), WGY (378.5m-790ke), U. S. Marine band.

WTIC (475.5m-630kc), Lueas, Latham and Serenaders. 9 8 7 6 5 5 WMCA (340.7m-880kc), Solow soloists. 9:30 8:30 7:30 6:30 5:30 WBAP (475.9m-630kc), Fort Worth Harmony club. 10:30 9:30 8:30 7:30 6:30 KPRC (206.9m-1010kc), Orpheus club male chorus. 11 10 9 8 7 7 30 WBAP (475.9m-630kc), Instrite Boys. 11:30 10:30 9:30 8:30 7:30 WBAP (475.9m-630kc), Harmony club. 12 m. 11 10 9 8 KFI (467m-642kc), Adie Luclen, yodeler. KGW (491.5m-610kc), Vaudeville. 1:15 a. m. 12:15 a. m. 12:15 1:15 a. m. 12:15 1:15 10:15 9:15 WLW (422.3m-710kc), Night Howls.

For stations silent tonight refer to first Thursday's list.

#### Atlantic or Eastern Daylight Saving Time Stations

CFCA, Terente, Can. (336.9m-840ke), 11 p. m., Gilbert Watson and his orchestra. CKNC, Toronto, Can. (336.9m-840ke), 8 p. m., dance orchestra; Garrard J. Kelly, tenor; Dwight Wilson, orchestra; Garrard J. Kenly, tentr; Dwight Wisson, baritone.

WCAE, Pittsburgh. Pa. (461.3m-650kc), 6:30 p. m., dinner concert; 8, concert; 8:15, WEAF; 9, WEAF; 10, WEAF, WCAU, Philadelphia, Pa. (277.6m-1080kc), 6:30 p. m., Catbay orchestra; 7:30. Snellenburg symphony orches-

tra; 8, Saddler's Plantation serenaders; 8:30, Clifton's anglers; 8:45, Kandy Kids; 9, Barry O'Moore, Irish tenor; 9:30, Musical chofs; 9:45, Professor Doolittle. WEAF, New York, N. Y. (491.5m-610kc), 6-12 midnight, dinner music; midweek hymn sing; 8:15, Hires Harvesters, WEEI, WFI, WCAE, WLIB, WSAI, WUJAR, WTAM; 9, Cliquot club Eskitaos, WEEI, WYJAR, WTAG, WFI, WCAE, WSAI, WTAM, WGR, WWJ, WOC, KSD, WCCO, WGN; 10, Silventown Cord orchestra, WEEI, WFI, WCAE, WWJ, WGR, WOC, WCCO, WTAG, KSD, WSAI, WJAR, WGN, WADC; 11-12, Buffalodians. WFI, Philadelphia, Pa. (394.5m-760ke), 6:30 p. m., Bellevue Stratford concert orchestra; 7, Bellevue Stratford dance orchestra; 7:15, Keystone Automobile club feature; 8:15, WEAF, WGR, Buffalo, N. Y. (319m-940ke), 6:30 p. m., Vincent Lopez Hotel Statter dance orchestra; 8, WEAF, WHAR, Atlantic City, N. J. (275.1m-1900kc), 8 p. m., Seaside hotel trio; 9, studio concert; 11, Follies Bersere dance orchestra; 10:30, Leroy Smith's orchestra; 11:30, Everglades orchestra; 12, Sophle Tucker's playground.
WIP, Philadelphia, Pa. (508.2m-590kc), 6:05 p. m.,

Oakland's chateau; 10:30, Leroy Smith's orchestra; 11:30, Everglades orchestra; 12, Sophle Tucker's playground.

WIP. Philadelphia. Pa. (508.2m-590kc), 6:05 p. m., Benjamin Franklin concert orchestra; 9, Pat Conway's band; 9:30, Hotel Traymore concert orchestra: 11:15, Silver Silipper club dance orchestra.

WJAR, Providence, R. I. (305.9m-980kc), 8 p. m., Robert W. Powers Hudson-Essex orchestra; 9-11, WEAF.

WJZ, New York, N. Y. (454.3m-660kc), 7:05 p. m., Hotel Pennsylvania concert orchestra; 7:40, Judge, Ir.; 8, First National presentation, WRC; 8:30, WRC; 9:30, Royal Typewriter Salon orchestra; WGY, WCAD, WRC; 10:30, the Record Boys, WRC; 11, WRC, WLIT, Philadelphia, Pa. (394.5m-760kc), 7:30 p. m., Benjamin Franklin concert orchestra.

WMCA, New York, N. Y. (340-7m-880kc), 7 p. m., Hofbrau Haus entertainers; 8, Roemer's Homers; 9, Solow soloists; 9:30, Coulmbia Park entertainers; 10, WmCA, New York, N. Y. (340-7m-880kc), 7 p. m., Hofbrau Haus entertainers; 11, Ernie Golden and his Hotel McAlpin orchestra; 12, McAlpin entertainers; 10, WmCA, New York, N. Y. (526m-570kc), 6:10 p. m., piano selections.

WOO, Philadelphia, Pa. (508.2m-590kc), 7:30 p. m., Adelphia Roof Garden dance orchestra; WOR, Newark, N. J. (406.2m-740kc), 6:30 p. m., Jacques Jacobs' Hotel Shelton ensemble.

phony players; 8-9, children's hour; 10-11, Victorians, quartet; 12:30 a. m., Knights of the Burning Candle. WLIB. Chicago, III. (302.8m-990ke), 7:15-8 p. m., WEAF; 11-11:20, Correll and Gosden; 11:20-1 a. m., Liberty studio ensemble; Amborse Larson, organist; Tommy Thatcher's Drake hotel dance orchestra; Fred Hamm's Purple Grackle orchestra.
WLS, Chicago, III. (344.6m-870ko), 6:30 p. m., Elsie Look, organist; 6:45, College Inn orchestra; 7:15, Rose Sherman, violinist; Marie Ludwig, harplat; 7:30, Al. Melgard, organist; 7:50, Voice of the Listener; 8:20, Mu Phi Epsilon concert.
WLW, Cincinnati, Ohio (422.3m-710kc), 6:15 p. m., Norrino Gibbons and Priscilla Holbrook; 7, dinner concert, Hotel Gibson; 8, special program for Shut-ins; 10:03, Doberty Melody boys; 11, Irene Downing and Tommy Reynolds; 11:30, dance selections, Henry Theis Castle Farmers; 12:15, Night Howls.
WMAQ, Chicago, III. (447.5m-670kc), 6 p. m., Chicago theater organ; 6:30, Hotel La Salle orchestra; 8, music; 9:20, musical program, chimes.
WMBB, Chicago, III. (449.9m-1200ke), 7-8 p. m., Trianon ensemble; Hilda Hinrichs, cellist; Margaret Conrad, violinist; Preston Graves, pianist; 9-11, Trianon orchestra, orchestras; ensemble; Bob Bennet, popular program.
WOK, Chicago, III. (217.3m-1380kc), 6-7 p. m., Tip-Top Inn string ensemble; Lorralne's Pershing Palace orchestra; Midway Garden orchestra; Capitol theater program.
WOJ, Chicago, III. (447.5m-670kc), 7-8 p. m., Rainbo WQI, Chicago, III. (447.5m-670kc), 7-8 p. m., Rainbo

wQJ. Chicago, III. (447.5m-670ke), 7-8 p. m., Rainbo Gardens orchestra; 10-2 a. m., Rainbo Gardens orchestra; Bert Davis; Lew Butler. WRC. Washington, D. C. (468.5m-640kc), 7 p. m., WJZ; 7:30, U. S. Marine band; 9, WJZ; 9:30, WRC players; 10-30 WJZ.

7:30, U. S. Marine band; 9, WJZ; 9:30, WRC players; 10:30, WJZ, wJZ, wJZ, wJZ, wWRVA, Richmond, Va. (256.3m-1170ke), 8:45 p. m., plano recital; 9:10, American composers; 9:45, Chester-field Country club orcehstra.

WSAI, Cincinnati, Ohio (325.9m-920ke), 7:15 p. m., WEAF.

WEAF,
WSWS, Chicago, III. (275.1m-1090kc), 6 p. m., Josephine
Oliver, Hugh Aspinwall; 7, John Loring Cook, music
school program; Gus Edwards orchestra; 10, Terrace
Gardens quintet; 11, Kenneth Clark; Rudy
Winter,
Billy Schaefer; 12-1 a. m., Witching hour.
WTAM, Cleveland, Ohio (389.4m-770kc), 6:15 p. m.,
Hollenden botel orchestra; 7:15-9, WEAF; 9, studio
program; Collegian serenaders.

#### FARMERS' PROGRAMS INDEX

Farmer Dinner Concerts

Daily Except Sunday

CENTRAL TIME KFNF, 12:15-1:35 p. m. KMA, 11:30-12:30 KSO, 12:30-1:30 p. m.

Sunday

Atlantic Eastern Central Mountain Pacific
4:30 p. m. 3:30 2:30 1:30 12:30

WFAA (475.9m-630ko), Sunday hour for farmers.

WMAQ (447.5m-670kc), Prairie Farmer farm talks. 8:15 7:15 6:15 5:15 4:15 WGY (379.5m-790ke), Agricultural program. 8:45 7:45 6:45 5:45 4:45 WSM (282.8m-1060ke), Poultry talks. 9 8 7 6 5 5 WGS (440.9m-680ke), Livestock questions and answers | Swers. | Swers. | 9:30 | 8:30 | 7:30 | 6:30 | 5:30 | WMC (499.7m-600kc), Farm talk. | WOI (270m-1110kc), Horticultural Short Course WOI (2010-11-12-10), lecture. 9:45 7:45 6:45 5:45 WCCO (416.4m-720kc), Farm lecture. 12:05a.m. 11:05 10:05 9:05 8:05 KGO (361.2m-830kc), Agricultural Outlook.

Atlantic Eastern Central Mountain Pacific 12 n. 14 10 9 8 8 115 1215 11:15 10:15 KSO (241.8m-1240kc), Radio farm. 2:30 1:30 12:30 11:30 10:30 KMA (241.8m-1240kc), Poultry talks. 2:45 1:45 12:15 11:15 10:15 KMO (241.8m-1240kc), Radio farm. 2:30 1:30 12:30 11:30 10:30 KMA (241.8m-1240kc), Agridultural aid. WMAQ (447.5m-670kc), Prairie Farmer farm talks. 2:45 1:45 12:45 11:45 10:45 WOI (270m-1110kc), "Anlmal Husbandry." 9:33 8:33 7:33 6:33 KYW (535.4m-560kc), American Farm Bureau Federation. 10:30 9:30 8:30 7:20 10:30 9:30 8:30 7:30 6:30 KOA (322.4m-930kc), Farm question box.

Atlantic Eastern Central Mountain Pacific 1:45p.m. 12:45 (1:45 0.45 9:45 9:45 WMAQ (447.5m-670kc), Prairie Farmer farm talks, WOI (270m-1110kc), Poultry husbandry, 2:15 1:15 12:15 11:15 (0:15 KSO (241.8m-1240kc), Farm talk, 2:30 1:30 (241.8m-1240kc), Agricultural aid. WFAA (475.9m-630kc), Sears-Roebuck Agricultural program.

9 8 7 6 5
WOS (440.9m-680kc), Evening market hour, poultry questions and answers.

Atlantic Eastern Central Mountain Pacific 2:15 p.m. i:15 12:15 11:15 10:15 KSO (241.8m-1240ke), Radio Farm talk. WOI (270m-1110ke), Farm crops. 2:30 1:30 (2:30 11:30 10:30 KMA (241.8m-1240ke), Agricultural aid. WMAQ (447.5m-640ke), Prairic Farmer farm talks. 9:30 7:30 6:30 5:30 WOI (270m-1110ke), Talk. 9:33 KYW (535.4m-580ke), American Farm bureau. 10:30 9:30 8:30 7:30 6:30 KOA (322.4m-930ke), Farm question box.

Atlantic Eastern Central Mountain 12:15 m. 1:15 12:15 11:15 10:15 KSO (241.8m-1240kc), Farm talk.
2:30 1:30 (2:30 II:30 10:30
KMA (241.8m-1240kc), Agricultural atd.
WMAQ (447.5m-670kc), Prairie Farmer farm talks.
2:45 1:45 12:45 II:45 0:45
WOI (270m-1110kc), Agricultural Economics.
9 8 6 5
WOS (440.9m-680kc), Evening Market hour. Dairy guestions and answers. questions and answers.

9:15 8:15 7:15 6:15
KSO (242m-1240kc), Farm talk. 5:15 9:30 8:30 7:30 6:30 WOC (488.6m-620kc), Question box. 5:30

Saturday
Atlantic Eastern Central Mountain Pacific
2 p. m. [ 12 n. 11 10
KPRC (296.9m-1010kc), Farmers' educational and musical program. KDKA (309.1m-970kc), Farm program.

#### Eastern Standard or Central Daylight Saving Time Stations

Saving Time Stations

KYW, Chicago, III. (535.4m-560kc), 7 p. m., musicale, Hearst Square; 9-10:30, classical concert; 10:30-11:30, Congress carnival.

WBAL, Baltimore, Md. (245.8m-1220kc), 6:30-7:30 p. m., WBAL dinner orchestra; 8-8:30, Howard R. Thatcher, organist; 8:30-9, WBAL mixed quartet; 9-10, WBAL trio, soloist; John Wilbourn, tenor.

WBBM, Chicago, III. (225.4m-1330kc), 8-10 p. m., Melody hour; Moss Covered Melodists; Vic Fredericks, air councidan; 10-10:30, Howard Osborne's Vanity Fair orchestra; Alenilte orchestra; Maurice Silverman, tenor; 11-12, midnight, dance period.

WCBD, Zien, III. (344.6m-870kc), 8 p. m., mixed quartet. McElroy saxophone quintet; trios, duets; Mrs. Carl Huth. harp soloist; Florence Farrar, contratto; Ralph Bull, tenor; Chester Bagg, bartione; Marlon Lee, reader.

WEBH, Chicago, III. (370.2m-810kc), 7 p. m., special recital; 9:15, Oriole orchestra; Ruth Buhl Flick, reader; Oroothy Herman Blum; 11-12:30 a. m., orchestra; Pat Ward; Rita McFawn; Mary Bieber.

WENR, Chicago, III. (265.3m-1130kc), 6-7 p. m., Rauland lyric trio; 8-10, All-American Pioneers.

WENR, Chicago, III. (249.5m-1020kc), 5-7 p. m., organ music, Out Lady of Sorrows church; 8-9, Frank Sylvano, Louis Panieo, Guyon's Paradise ballroom orchestra; Leona Hayes; 11-12. Flo and Ray, Phil Fleming; Melody Girls; 12-1 a. m., Panico panie.

WGHP, Debroit, Mich. (270.1m-ii10kc), 6 p. m., dinner concert; 10-11, Frolickers; Heck and Mac; Mr. and Mrs. Eddie McGrath; Motortown trio; 11-12, Skylark dance band; Marvelle Payette, soprano; 12-1 a. m., Gerald Marks' orchestra.

WGN, Chicago, III. (302.8m-990kc), 6:35-7 p. m., Drake concert ensemble; 8-9, WEAF; 9-10, WEAF; 10-10:10,

Gerald Marks' orchestra.

WGN, Chicago, III. (302.8m-990ke), 6:35-7 p. m., Drake concert ensemble; 8-9, WEAF; 9-10, WEAF; 10-10:10,

ensemble.

WCAD: 6:45, old-time popular songs; 7:30, WRC; 8:30, W3Z; 9:30, musical program; 10:30, organ recital.

cital.

WHT, Chicago, III. (399.8m-750ke), 7-10 p. m., Al Carney, organist; 8:45-10:15 (238m-1260ke), studio features; 11, Lee Simms and Gloom Chasers; 11:10 (399.8m-750ke), U. S. L. entertainers; 12 midnight, your hour league.

WHBO, Chicago, III. (225.4m-1330ke), 6-8 p. m., dinner concert, string trio; tenor; baritone; Chester Neuman; 12 midnight, jamboree; Ted Fforto, pianist; Dan Russo, violinist; Marie Tully, songs, artists.

WJAZ, Chicago, III. (329.5m-910kc), 9-12 mid., Spanish Garden studio classical program.

WIJD, Mooseheart, 111. (370.2m-810kc), 5:30-7 p. m., Jack Nelson, Howard L. Peterson; Palmer House Sym-

WTIC. Hartford, Conn. (475.9m-630ke). 7 p. m., "Seottie" Miller; 7:30, Lucas, Latham and seronaders; 8, For-an-to Melody Makers; Manchester msle quartet; 9, Emil Heimberger's Hotel Bond dance orchestra. WWJ. Detroit, Mich. (352.7m-650ke), 6 p. m., dinner eoncert; 7, WEAF.

#### Central Standard Time Stations

CKY, Winnipeg, Man. (384.4m-780kc), 8:30 p. m., Canadian national Railways program. KFNF, Shenandoah, Iowa (263m-1140kc), 7 p. m., pro-

RFNF, Shenanogan, 10wa (205m-11900c), 1 p. m., program.

KLDS, Independence, Mo. (440.9m-680kc), 8 p. m., classical program, arranged by Elma Eaton Karr, violinist, KOIL, Ceuncil Bluffs, Iowa (278m-1080kc), 6.03 p. m., Jamieson Oil duo; 6.30. Art Marr's Imperial orchestra; 7, program; 8, Seotch troi; Everett Dodds, princist and songster; William Harry Wallaee, pipe major; Robert, Malcolm, drummer; 11, Hotsy Totsy hour, KPRC, Houston, Texas (296.9m-1010kc), 7:30 p. m., Harry Kobusch and his orchestra; Carl Moritz; 8:30, Orpheus club; 9, Edna Adams.

KSO, Clarinda, Iowa (241.8m-1240kc), 8 p. m., Munieipal band.

pal band. KVOO, Bristow, Okla. (374.8m-880kc), 6-9 p. m., sur-

prise program.

KWWG, Brownsville, Texas (277.6m-1080ke), 8:30-8:45
p.m., Carlos Guardiola, pianist; 8:45-9:00. Sr.
Revueltas, Mexican songs; 9-9:30, Mrs. Fritz Schmidt,
contralto; Sgt. Nichols, cornetist; Doc. Dutro, har-

monica solo.

WADC, Akron, Ohio (258.5m-1160kc), 9 p. m., Silvertown Cord orchestra; 10, Roseland orchestra.

WBAP, Fort Worth, Texas (475.9m-630kc), 7:30-8:30 p. m., Davis Baking Powder saxophone oetet; 11-12, Sorin White Top o' Texas orchestra. WCCO, Minneapolis-St. Paul, Minn. (416.4m-720kc), 7 p. m., WEAF; 9, Justrite Boys. WFAA, Dallas, Texas (475.9m-630kc), 6:30-7:30 p. m., Jimmy Joy's orchestra; 8:30-9:30, recital, Mickwitz club.

club.

WHAS, Louisville, Ky. (399.8m-750ke), 7:30-9 p. m., mixed vocal and instrumental concert.

WHB, Kansas City, Mo. (363.6m-820ke), 7-7:30 p. m., dinner bour organ concert; 8-9:30, string trio.

WHO. Des Moines, lowa (526m-570ke), 7:30-8 p. m., Philbrack and Younker tea-room orchestra; 8-9, Bankers' Life trio, Myrtle Williams, soprano; Stewart Watson, bartione.

Watson, baritone.

WMC. Memphis, Tenn. (499.7m-600kc), 8:30 p. m., studio program.

WOAI, San Antonio, Texas (394.5m-760ko), 8:30 p. m., Mistletoe Melody Maids. WOAW, Omaha, Nebr. (526m-570ke), 6 p. m., Elks or-

gan; 6:25, Francis Potter, banjoist; 6:50, orchestra; 3, Sunshine program.

WOC, Davenport, Iowa (483.6m-620kc), 6-9 p. m., WIEAR'; 9-9:30, Moline Plowboys.

WRR, Dallas, Texas (245.8m-1220kc), 6:10-7 p. m., Jack Gurcher's orchestra; 8-9, musicale; 9:30-10:30, Dyo Duo and other musicians.

WSMB, New Orleans, La. (319m-940kc), 8:30-10:30 p. m., Radlo Revelers orchestra; Liberty theater orchestra.

#### Mountain Standard Time Stations

KFXF, Colorado Springs, Colo. (249.9m-1200kc), 3 p. m., Russell Greenfield Mason, flute soloist; Ben-jamin Johnson, planist; W. C. Bybee, tenor. KOA, Denver, Colo. (322.4m-930kc), 6:30 p. m., Brown Palaco string orchestra.

#### Pacific Standard Time Stations

KF1, Los Angeles, Calif. (467m-642kc), 7-8 p. m., song program, Paul Roberts, Leslie Adams; 8-9, Si Davling, old-time fiddler; Addie Lucien, yodele, 9-10, grand opera program; 10-11, Patrick-Marsh

9-10, grand opera program; 10-11, Patrick-Marsh dance orchestra.

KFWB, Hollywood, Calif. (252m-4150kc), 7-8 p. m., program, O'Neal and Son; 8-9, program, McGayin Brothers Bakeries; 9-10, program, Dell's Ice Cream; 10-11, Warner Brothers frolic.

KGO, Oakland, Calif. (361.2m-830kc), 8-9 p. m., vacation program; 9-12, Brokaw and orchestra.

KGW. Portland, Ore. (491.5m-610kc), 6-7 p. m., dinner concert; 8-10, vaudeville program, Four Saitors; Ebowy and Ivory, piano duet; Motor Coach entertainers; Tommy Luke's Flower girls; 10-12, Cole McElroy's dance orchestra.

dance orchestra.

KHJ, Los Angeles, Calif. (405.2m-740ko), 6:30-7:30 p. m., children's hour, Uncle John; 8-10, Zoeilner string quartet; Gladys Blackwell Pickering, soprano. KPSN, Pasadena, Calif. (315.6m-950kc), 6-6:15 p. m., dnnor time news; 8-9. Pasadena chamber of commerce. KTAB, Oakland, Calif. (239.9m-1250kc), 7-7:30 p. m., shopping hour; 8-10, program.

#### Friday, July 9

Headliners Today

Atlantio Eastern Central Mountain 4:10 p.m. 7:10 6:10 5:10 4:10 WRR (245.8m-1220kc); Mercedes McManus, blues singer 7:15 6:15 5:15 4:15 WGN (302.8m-9900kc), Paul Ash's show. 8:30 7:30 6:30 5:30 4:30 WFAA (475.9m-630kc), Paul Cretien's banjo quintet. 9:15 8:15 7:15 6:15 5:15 WGY (379.5m-790kc), "Tenderfoot's Turn."

For stations silent tonight refer to first Friday's list.

#### Atlantic or Eastern Daylight Saving Time Stations

Time Stations

WCAE, Pittsburgh, Pa. (461.3m-650ko), 6:30 p. m., dinner concert; 8, studio program; 9:30, concert; 10, WEAF; 10:30. WEAF;
WCAU, Philadelphia, Pa. (277.6m-1080ko), 5:45 p. m. Hotel Pennsylvania orchestra; 7:15, Peter Rabbit and Kiddies; 7:30, Snellenburg Instrumental trio; 8, Sullivan Brothers, ukulele; 8:15. Enrico Aresoni. operatic tenor; 8:30. Singing Groudhog; 8:15, Dwight Strickland, 'poetician'; 9, Regina Crooners; 9:15, Nasco Jolly Four; 9:45, Jack and Jill, songs; 10, Archie Lloyd, Tillie Shapiro, Kathryn Jordan,, harmony songs; 10:30, Myers misical architects.

WEAF, New York, N. Y. (491.5m-610kc), 6:12 midnight, dinner music; Whitall Anglo-Persians; Hotel Bossert Marine Roof orchestra; Pelham Heath Inn orchestra. WEBJ, New York, N. Y. (272.6m-100kc), 7 p. m. Blenheim theater ensemble; 7:30, Luna's Knickerbocker orchestra; 8, William Bisignamo, accordion soloist; 8:15, Brennan and Adams; 8:30, Luna's Marine band.

WFI, Philadelphia, Pa. (394.5m-760ko), 6:30 p. m., pianist: 7, Winger's Crescent Park entertainers; 7:30, WEAF; S, studio program; 9:30. WEAF; 10, classical program; 11, Vincent Lopes Hotel Statler dance orchestra.

WHAR, Atlantic City, N. J. (275.1m-1090ko), 8 p. m., Seaside hotel trio.

WHAR, Atlantic City, N. J. (275.1m-1090ko), 8 p. m., Seaside hotel trio. Y. (361.2m-830kc), 7 p. m., Country club orchestra; 7:30, Treasureland Neighbors; 8, Uncle Robert's chat; 9, concert, Loew's 7th Ave, the ater; 10, Roseland dance orchestra; 11:30, Club Alabam orchestra; 12, Silver Silipper orchestra.

orchestra; 11:30, Club Alabam orchestra; 12, Silver Slipper orchestra.

WIP, Philadelphia, Pa. (508.2m-590kc), 6:05 p. m., Benjamin Franklin concert orchestra.

WJAR, Providence, R. I. (305.9m-980kc), 8 p. m., nusicale; 8:30, Gorman's Jolly Bakers; 9, musicale; 10, WEAF; 11, Providence Biltmore dance orchestra.

WJZ, New York, N. Y. (454.3m-660kc), 7:05 p. m., Georgo Olsen's Hotel Pennsylvania Roof orchestra; 8, Sundial Shoe screnaders, Bonnie Laddies; 10:30, Harold Stern's Hotel Belleclaire Roof orchestra.

WLIT, Philadelphia, Pa. (394.5m-760kc), 8 p. m., Pioneer Storage Battery entertainers; 9, Schickerling Artists; 10, Morning Glory club concert: 10:30, Rufus and Rastus; 11, Freshman Masterplece Radio hour.

hour.

WMCA, New York, N. Y. (340.7m-880kc), 6:30 p. m.
Ernie Golden and his Hotel McAlpin orchestra; 7:15,
Ernie Golden and his Hotel McAlpin orchestra; 7:30,
Sach's Quality Boys, 8:30, "Muscle Shoals'", 9, Paul
Whiteman's Piccadilly Players; 9:30, Klein's Serenading Shoemakers; 11, Jack Denny's orchestra; 12 m.,
McAlpin entertainers.

WNYC, New York, N. Y. (526m-570ko), 6 p. m., piano
selections.

WWYC, New York, N. Y. (526)m-527007, 5 p. m., plantselections, Selections, Selections, Golden, Golden,

#### Eastern Standard or Central Daylight Saving Time Stations

Saving Time Stations

KYW, Chicago, III. (533.4m-560kc), 7 p. m., musicale;
8-9, Federal Masters; 10:30-12, Congress carnival.

WBAL, Baltimore, Md. (245.8m-1220kc), 6:30-7:30 p. m.,

WBAL, dinner orchestra; 8-9, vocal and instrumental
soloists; 9-10, Baltimore Municipal band

WBBM, Chicago, III. (225.4m-1330kc), 8-10 p. m.,

Alemite orchestra; Harmony time.

WEBH, Chicago, III. (370.2m-810kc), 7 p. m., 0sborn's orchestra; Bernard Weber; Pauline Sachs; 9:15,
Osborn's orchestra; Bernard Weber; 11-12:30 a. m.,
orchostra; Irone Beasley; Day and Knight.

WENR, Chicago, III. (265.3m-1130kc), 6-7 p. m.,

Rauland lyric trio; 8-9, Moody Bible Institute hour;
9-10, Arthur Dunas, popular program; 12-2 a. m.,
midnite froite.

WGES, Oak Park, III. (249.9m-1200ko), 5-7 p. m., request night; 8-9, Joe Warner, Joie Walsh, Tom
Wheeler; Melody Girls; 11-1 a. m., Jimmy Wall,
Clarence Theders; Pesgy O'Neil, Esther Richard, Pat
Ryan.

Clarence Theders; Peggy O'Neil, Esther Richard, Pat Ryan.

WGHB, Clearwater, Fla. (265.3m-1130kc), 8:30-10 p. m., organ recital, Peace Memorial church, Pat Ryan.

WGHP, Detroit, Mich. (270.1m:110kc), 6 p. m., dinner concert; 10-11, entertainers; 11-12, Skylark dance band; Victor Frather, trombonist; John Dickinson, barttone; 12-1 a. m., Gerald Mark's orchestra.

WGN, Chicago, ill. (302.8m-990kc), 6:35-7 p. m., musicale; 9, WEAF; 9:30-10, Phantom violin; 10-10-10, Sam n' Henry; 10:10-11, musical program, ensemble.

WGY, Schenetady, N. Y. (379.5m-790kc), 6 p. m., dinner program, Hotel Van Curler; 6:30, WCAD; 6:35, WGY orchestra; 7:15, comedy, "Tenderfoot's Turn'; 9:30, musical program.

WHT, Chicago, Ill. (399.8m-750kc), 7 p. m., Al Carney; 10:15 (238m-1260kc), musical features; 10:30 (399.8m-750kc), Sunbeam Girls; 12 midnight, your hour league.

WIRA Chicago, Ill. (225.4m-1330kc), 6-8 p. m., dinner

wilbo, Chicago, III. (225.4m-1330kc), 6-8 p. m., dinner program, string trio; Charlotte Edwards, contralto: 10-12, popular program; Ted Fforito, pianist; Dan Russo, violinist; songs, monologues; Tony Corcoran; Hickey and Johnson.

#### Friday, July 9

WJAZ, Chicago, Ill. (329.5m-910kc), 9-12 midnight.
Eart Hoffman's Chez Pierre orchestra; the Quips That
Pass in the Night; Harry Morse, tenor; Helen Jenkins, pianist; Chez Pierre Hawalian quartet.
WJJD, Mooscheart, Ill. (370.2m-810ke), 5:30-7 p. m.,
Jack Nelson; Howard L. Petersson; 8-9, Senator Harold
C. Kessinger; 10-11, Palmer House Victorians; Joan
St. Anne; 12:30, Settin' Up hour.
WLIB, Chicago, Ill. (302.8m-990kc), 7:05-7:15 p. m.,
Old-Pashioned Almanack; 11-11:20, Correll and Gosden; 11:20-1 a. m., Liberty studio ensemble; Ambrose
Larsen, organist; Tommy Thatcher's Drike hotel dance
orchestra; Purple Grackle odrchestra.
WLS, Chicago, Ill. (344.6m-870kc), 6:30 p. m., Elsie
Mae Look organist; 7:15, Rose Sherman, violinist;
Marie Ludwig, harpist, 7:33 Al Melgard, organist;
S:30, Maurie Sherman College Inn orchestra; 9:30,
Chicago, Ill. (44.5m-670kc), 6 p. m., Chicago
theater organ; 6:30, Wide-Awake club program; 8:30, Minney trip; 9:20, musical
program, chiness, WBB, Chicago, Ill. (24.9m-1200kc), 7-8 p. m., TripWBB, Chicago, Ill. (24.9m-1200kc), 7-8 p. m., Trip-

program, chimes.

W BB, Chicago, III. (249.9m-1200ke), 7-8 p. m., Trianon duo, male trio; 9-11, Trianon orchestra; banio barons; male trio.

W O K, Chicago, III. (217.3m-1380ke), 6-7 p. m., Tip-Top Inn string ensemble convert; 10-1:30 a. m., Tearney's Town clue orchestra; Midway Garden orchestra; Capitol thester operations.

Inn string ensemble concert; 10-1:30 a. m., Tearney's Town club orchestra; Midway Garden orchestra; Capitol theater program.

WOOD, Grand Rapids, Mich. (241.8m-1240kc), 9 p. m., classical concert, Mrs. W. V. Morrow, Honry Vaughn; 10:05, classical concert, W. W. Morrow, Honry Vaughn; 10:05, classical concert.

W. M. Chicago, III. (477.5m-670kc), 7-8 p. m., Itainho Gardens orchestra; Kunneth Sicrims; 10-2 a. m., orchestra; Muriel Olson, contralto; Johnny Poat, baritone; Romo Vincent.

WRVA, Richmond, V. A. (256.3m-1/70kc), 7-p. m., rechestra; Muriel Olson, contralto; Johnny Poat, baritone; Romo Vincent.

WRVA, Richmond, V. A. (256.3m-1/70kc), 7-p. m., Michmond hotel orchestra; S. 30, Starticht iazz necro quartet; 9:05, "An Evening in a Broadcast Station," studio staft: 10, Golden Gate syncopations.

WSWS, Chicago, III. (275.1m-1690kc), 6-7-p. m., Zola Haynes, Peter Gross, tenor; R. Torrace Gardens Gross, tenor; R. Torrace Gardens quintet; 12, Witching hour.

Terrace Gardens quintet; 12, Witching hour.

WTAM, Cleveland, Ohio (339.4m-770kc), 6-345-p. m., Hotel Cleveland orchestra; 8, studio program; 9, WEAF; 9:30, studio program; 11, orchestra; 9.

WTIC, Hartford, Con. (475.5m-630kc), 6:50-p. m., John Chestra; 10, prochestra; 24:36, The Debutanis".

WJI, Detroit, Mich. (332.7m-830kc), 6:50-p. m., dinner concert; 8, News orchestra; 9, WEAF.

Central Standard Time Stations

Central Standard Time Stations

KFAB, Lincoln, Nebr. (340.7m-880ke), 5:30-6:30 p. m.,
dinner concert; 8:30-10:30, variety program,

KFDM, Beaumont, Texas (315.6m-950kc), 7:30-8 p. m.,
children's program; 8-10, Refinery band.

KFH, Wichita, Kan. (267.7m-1120kc), 7-p. m., classical
program; 11, Lassen Harmonizers.

KFNF, Shenandoah, lowa (263m-1140kc), 7:30 p. m.,
program;

program. KMA, Shenandoah, Iowa (252m-1190kc), 7-11 p. m., De

Luxe program.

KMOX, St. Louis, Mo. (280.2m-1970ke), 7 p. m.,

KMOX, Radio orchestra; 8, orchestra; Colonel 6121; 9,

KMOX Radio orchestra; 9:30, Bamalogue; 10, Music

KAIOX Radio orchestra; 9:39, Isimatogue; 10, Aussie Lovers' hour.

KOIL, Council Bluffs, Jowa (278m-1080ke), 6:03 p. m.,
Pontiac Six; 7:30, Louise Cnyler, violinist; Dorothy
Steinbaugh, soprano; Mrs. Frank Darling, pianist;
S:30, Doresher Brother's program: Jack and Jill; 11,
Hotsy Totsy hour.

KSO, Clarinda, Iowa (241.8m-1240ke), 8 p. m., Pat MeElroy; 8:20, Chicken Bristle musicians.

KVOO, Bristow, Okla. (374.8m-800ke), 6-9 p. m.,
Josephine Storey-White.

WADC, Akron, Ohio (258.5m-1160ke), 8 p. m., studio
program; 10, Roseland dance orchestra; 12, midnite
dance.

dance.

WBAP, Fort Worth, Texas (475.9m-630kc), 7:30-8:30
p. m., program, Mrs. D. W. Shivers; 9:40-11, concert,
Mineral Wells; 11-12, musicale.

WCCO, Minneapolis-St. Paul, Minn. (416.4m-720kc),
6:15 p. m., Wallie Erickson's Collsoum orchestra; 7:30,
leanne Gray; 8, WEAF; 8:30, musicale; 10:95, Naukin
cafe orchestra.

Jeanne Gray; 8, WEAF; 8:30, musicale; 10:05, Naukin cafe orchestra.
WCOA, Pensacola, Fla. (222m-1350kc), 7 p. m., Clara Frenkel, vocalist; Eddie Collins, saxophonlst; Mrs. Sybil Milchell, pianist; Rainbow dance orchestra.
WFAA, Dallas, Texas (475.9m-630kc), 6:30-7:30 p. m..
Troy Floyd's orchestra; 8:30-9:30, Paul Cretten's banio

WFAA, Dalias, Texas (475.9m-630kc), 6:30-7:30 p. ni..
Troy Floyd's orehestra; 8:30-9:30, Paul Cretieu's banjo quintet.
WHAS, Louisville, Ky. (399.8m-750kc), 7:30-9 p. m.
Central State Hospital orchestra.
WHAS, Kanasa City, Mo. (366.5m-820kc), 7-8 p. m.
Sweeney Radio orchestra.
WHO, Des Moines, lowa (526m-570kc), 7:30-8 p. m.
Philbreck and Younker tea-room orchestra. 8-9, Mrs.
Fred Marshall, soprano: Eve Winegarden, accompanist;
Franklin Kagy, violin-cello soloist; Ella Bear, pianist;
I-1-12, Philbreck and his Younker tea-room orchestra.
WMC, Momphis, Tenn. (499.7m-600kc), 8:30 p. ni.
Hotel Gayoso orchestra: 11, Harry O. Nichols, organist.
WOAI, San Antonio, Texas (394.5m-780kc), 8:30 p. ni.
San Antonio College of Music program, or Walter
Dunham Havmonologue.
WOAW, Omaha, Nebr. (526m-570kc), 6 p. m., music
review; 6:30, Red Peather program; 9, Ford dealers.
WOC, Davenport, lowa (483.6m-620kc), 8-8:30 p. m.,
WEAF; 8:30-9:30, Mrs. William King, organist,
WRAF; 8:30-9:30, Mrs. William King, organist,
WRAF; 8:30-9:30, Mrs. William King, organist,
WRAM, planist; Nerecedes McManus, blues singer; 8-9,
Magnolia Beaumont band; 11-12, late musicale.
WSM, Nashville, Tenn. (282.8m-1050kc), 7 p. m., dinner
concert; 8, Mrs. Dalsy Fentress, contralto; 10, Lily
Frankland, pianist.

Mountain Standard Time Stations Mountain Standard 11me Stations
KFXF, Colorado Springs, Colo. (249.9m-1220kc), 8:30
p. m., Athene Went, ukulele soloist; Edgar Laughlin,
haritone; Evelyn Bissell, planist.
KOA, Denver, Colo. (322.4m-930kc), 6:30 p. m., Brown
Palace string orchestra; 8, Denver municipal band.

Pacific Standard Time Stations

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642kc), 7-8 p. m., Ye Knizhts of the Knotes; 8-9, Acolian organ; 9-10, Harry Decker's Hawailans; 10-11, Packard ballad hour. KFWB. Hollywood, Calif. (252m-1190kc), 7:30-8 p. m., program, Pranta studios; 8-9, program, John Wright, the Right Tailor; 9-10, program, Frank Meline company; 10-11. Warner Brothers frolic.

KGW. Portland, Orc. (491.5m-610ko), 6-7 p. m., dinner concert; 8-9, vocal and instrumental concert; 9-10:30, vocal and instrumental; 10:30-12, frolic, Keep Growing Wiser Order of Hoot Owis, Pantages stars, features, KHJ, Los Angeles, Calif. (405.2m-740kc), 6:30-7:30 p. m., Uncle John and the children; 8-10, Times de luxe program; 10-11, Clement's Super-six dance orchestra.

Chestra.
KTAB. Oakland, Calif. (239.9m-1250ke), 7-7:30 p. m., shopping hour; 8-10, program.

#### Saturday, July 10

#### Headliners Today

| Atlantio | Eastern | Central | Mountain | Pacific | 8.30 p.m. | 7.30 | 6.30 | 5.30 | 5.30 | 4.30 | WIZ | (454.3m.4600kc), WRC | (468.5m.640kc), New York | Philharmonic orchestra. | 9.30 | 8.30 | 7.30 | 6.30 | 5.30 | KOIL | (278m.-1980kc), Birthday party, WHAS | (390.8m.-750kc), Cardinals. | 6.30 | 8.30 | 7.30 | 6.30 | 5.30 | WISS | (319m.-940kc), Bob Agularia, the old-timer. | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30

For stations silent tonight refer to first Saturday's list.

Atlantic or Eastern Daylight Saving Time Stations

CFCA, Teronto, Can. (356.9m-840ke), 9 p. m., CFCA's summer orchestra.



Popular Cincinnati ballad singer is Ruth Pushin, above. She has been much applauded at WKRC during her frequent appearances.

WCAE, Pisstburgh, Pa. (461.3m-650ke), 6:30 p. m., dinner concert.

WEAF. New York, N. Y. (491.5m-610ke), 6-12 mid., dinner music; musical comedy hits, orchestra, Goldman band concert; Ben Bernie and his orchestra; Vincent Lopez orchestra.

WFI, Phildelphia, Pa. (394.5m-760ko), spectacle "Free-dom from Sesquicentennial.

WHAR, Atlantic City, N. J. (275.1m-1090ko), 8 p. m., Scaside hotel trio.

Scaside hotel trio.

WIP, Philadelphia, Pa., (508.2m-590kc), 6:05 p. m.,
Benjamin Franklin concert orchestra; 8:15, Hotel
Ambassador orchestra; 8:30, program from Marine
studio; 8:45, Pat Conway's baud; 9:30, Million
Dollar Pier dance orchestra; 10:45, Ted Weems
Novelty dance orchestra; 11:05, organ recital.

WJAR, Providence, R. I. (305.9m-980ko), 7:20 p. m.,
WEAF; 9:15, WEAF.

WJZ, New York, N. Y. (454.3m-660ko), 7:05 p. m.,
Waldorf-Astoria Roof orchestra; 8, WRC; 8:25,
Stadium Philharmonic
Astor Roof orchestra.

Waldorf-Astoria Roof orchestra; 8, WRC; 8:23. Stadium Philharmonic concert, WRC; 10:30, Hotel Astor Roof orchestra. N. Y. (340.7m-880ke), 7 p. m., Tappen's orchestra; 10:30, Stauch's orchestra; 11. Fruio Golden and his Hotel McAlpin orchestra; 12m., McAlpin entertainers. WNYC, New York, N. Y. (526m-570ko), 7 p. m., plano selections; 7:15, songs; 10, police quartot. WOR, Newark, N. J. (405.2m-740kc), 6:30 p. m., Jacques Jacob's Hotel Shelton ensemble; 8:30, Pryor's band; 9:15, Casino orchestra; 9:45, Berkeley Cartaret concert orchestra; 10:15, Brass quartet; 10:30, Monterey society orchestra; 11:15, Ben Bernie Berkeley cartaret grill.

### Eastern Standard or Central Daylight

Eastern Standard or Central Daylight
Saving Time Stations

KYW, Chicago, III. (535.4m-560ke), 7 p. m., hour of
nusic; 8, KYW's Congress hotel studio; 9-10:30,
classical concert; 10:30-12, Congress carnival.

WBBM, Chicago, III. (225.4m-1330ke), 8-10 p. m., Alemite orchestra; 10-11, dance period; 12-2 a. m.,
Matched Unit quartet; Ziegier Stars.

WEBH, Chicago, III. (370.2m-370ke), 8 p. m., songs.
Frank Greff; 9:15-10, Edgewater Beach Hotel orchestra; 11-12 midnight, Edgewater Beach Hotel orchestra; 11-12 m

Rauland lyric trio; o-v. All-American Pioneers; 12-2 a. m., murgram; 9-10, All-American Pioneers; 12-2 a. m., murnite frolic.

WGES, Oak Park, III. (249.9m-1200kc), 5-7 p. m., Paradise Plane; Leona Hayes; 8-9, Louis Panico; Guyon's Paradise ballroom orchestra; 11-1 a. m., Bobby Lee, Casey and Gervals; Peggy and Esther; Jack Lavin.

WGN, Chicago, III. (302.8m-990kc), 6:35-7 p. m., musical program; 8-8:10 Auld Sandy; 8:10-8:30, musiclal program; 8-8:0-9:30, light opera concert; 9:30-10, "In a Gondoln"; 10-10:10, Sam n' Henry; 10:10-11, ensemble.

semble. WGY, Schneetady, N. Y. (379.5m-790ke), 5:30 p. m., program, Onondaga hotel; 9:30, Sagamore hotel program.
WHT, Chicago, III. (399.8m-750kc), 7 p. m., Al Carney,

organist; 7:40, classical hour; 10:15 (238m-1260ke), Cinderella orchestra; 10:50 (399.3m-750kc), popular hour; 12 midnight, your hour league.
WIBO, Chieago, III. (225.4m-1330ke), 6-8 p. m., dinner program; string trio; Frances Schelbe, George Hancher, Evelyn Elliott, Christopher Hendra.
WJAZ, Chicago, III. (329.5m-910kc), 9-12 mid., Earl Hoffman's Chez Pierre orchestra; Whlstling Jim; vocal selections, Kennard Barradell vocal studio; late and eld-time popular numbers, Zentih artists.
WJJD, Mooseheart, III. (370.2m-810kc), 5:40-7 p. m., Howard L. Peterson; Palmer House Symphony players; Victorians; Isabel Defaut; Simeon Ofiver, pianist; 10-11, Isabel Defaut; Victorians; Cook Sisters; 12-1. Settin' Up Hour.
WLIB, Chicago, III. (302.8m-990kc), 7:15-7:30 p. m., dinner concert; 7:30-8, Drake concert ensemble, Blackstone string quintet; Pattison Coates, bartione; 11:11:20, Correll and Gosden; 11:20-1 a. m., Liberty studio ensemble; Ambrose Larsen, organist; Purple Grackle orchestra.
WLS. Chicago, III. (344.6m-870kc), 7:15-1 a. m., na-

studio ensemble; Ambrose Larsen, organist; Purple Grackie orchestra.
WLS, Chicago, III. (344.6m-870kc), 7:15-1 a. m., national barn dance; Indiana Radio talent contest.
WLW, Cincinnath, Ohio (422.3m-710kc), 7 p. m., organ concert Johanna Grosse; 7:30, Meeting of the Sekatary Hawkins Radio club; 8, Johanna Grosse; 8:30, dance music, Calico Cat; 9:30, Henry Thels and his Castle Farmers.
WMAQ, Chicago, III. (447.5m-670kc), 6 p. m., Chicago theater organ; 6:30, Hotel LaSalle orchestra; 8, Daw and Pratt; 8:30, photologue; 9, Chicago theater revue.
WMBB, Chicago, III. (249.m-1200kc), 7-8 p. m., Trianon ensemble; Hilda Hinrichs, cellist; Margaret Conrad, violinist; Presston Graves, pianist; Franklin Kldd, tenor; Arvid Anderson, program; 9-11, Trianon orchestra; ensemble; popular program.
WOK, Chicago, III. (217.3m-1380kc, 6-7 p. m., Tip-Top Inn ensemble concert; 10-1 a. m., Tearney's Town club orchestra; Carl Lorraine's Pershing Palace orchestra; Midwy Garden orchestra; Captlot theater program.

gram.

WOOD, Grand Rapids, Mich. (241.8m-1240kc), 10:05
p. m., Say-u-time program; Bob and Hazel McOsker;
Harold DeWindt, Freddie Gleason, Jerry Roach,
Tbelma Dykman, Louic Cunningham, Dodo and Mom;
10:35, Chuck Helwegen's Ramona Gardens orchestra. Vol. Chicago, III. (447.5m-670ke), 7-8 p. m., Rainho Gardens orchestra; Jean Carlson, soprano; Kenyth Dunn, pianist; Peter Gruber, violinist; 10-3 a. m., Jerry Sullivan; artists.

Jerry Sullivan; artists.

WRC, Washington, D. C. (458.5m-640kc), 7:30 p. m.,
N. Y. Philharmonic orchestra; 10, Kitt hour of music;
11-12, Otto F. Beck, organist.
WSAI, Chiennati, Ohfo (325.5m-920kc), 8 p. m.,
chimes; 8:30, Bicycle playing card sextet; 12, Lelia
Le Mar, Latonia Melody Boys; Norinne Gibbons,
Priscilla Holbrock, Maids of Melody.

FINCHIA HOLDFOOK, MARIOS OF MENORY, WSWS, Chicago, III. (275.1m.1090kc), 6 p. m., Terrace Gardens orchestra; Chicago serenaders; mixed quartet; John Clark; 8, Torrace Gardens orchestra; Cook Sisters; Borden Brothers; Josephine Oliver; 10-11, Terrace Gardens quintet; Badger Four; Zola Haynes; Art Becker, Osborne Sisters; 12, Witching hour.

WTAM, Cleveland, Ohio (389.4m-770kc), 6 p. m., Colle-gian serenaders; 7:30, studio program; 8, Hollenden hotel orchestra; 9, Ev Jones and his gang.

Central Standard Time Stations

KFAB, Lincoln, Nebr. (340.7m-880kc), 5:30-6:30 p. m., dinner concert; 8:30-10:30, Little Symphony orches-

KFAB, Lincoln, Nebr. (340,7m-880kc), 5:30-6:30 p. m., dinner concert; 8:30-10:30, Little Symphony orchestra.

KFH, Wichita, Kan. (267,7m-1120kc), 7 p. m., J. O. Adams artists' recital.

KFNF, Shenandoah, lowa (263m-1140kc), 7 p. m., open; 11, old-time music.

KLDS, Independence, Mo. (440,9m-680kc), 8 p. m., Mrs. Joe Coue, soprano; Mrs. Mae Hollis, soprano; Mrs. H. M. Murray, violinist; Elsa Schutte, pianist, KMOX, St. Louis, Mo. (280,2m-1070kc), 6:30 p. m., Jacquinot Jules, organist; 7. Little Red schoolhouse; Musical Bearrs; 8. KMOX Radio orchestra; John Sauter, flutist; Gordon Morrison; 9. KMOX Radio orchestra; 9:30, Gene Jordan, tenor; 10. 'In Old Madrid.' C. L. Wentherwax, baritone, KOLL, Council Bluffs, lowa (278m-1080kc), 6:30 p. m., Hugh W. McGann, baritone; 7:30-12, Birthday party, KPRC, Houston, Texas (296,9m-1010kc), 10:30 a. m., chines St. Paul's; 11, St. Paul Methodist church; 7:50, Pirst Church of Christ, Scientist; 9:30, Top of the Town; 1, Texan theater pipe organ concert, KVOO, Bristow, Okla. (374,8m-800kc), 6-9 p. m., Marshall Van Pool and his Radio orchestra.

WADC, Akron. Ohio (258,5m-1160kc), p. p. m., Cardinals, WBAP, Fort Worth, Texas (475,9m-630kc), 7:30-8 p. m., Sunday school lesson; 8-8:30, vesper symphony; 9:30-11, Epworth league, First Methodist church.

WCCO, Minneapolis-St. Paul, Minn. (416,4m-720kc), 6:15 p. m., Wesley Barlow's Nicollet hotel orchestra; WFAA, Dallas, Texas (475,9m-630kc), 6:30-7:30 p. m., Jinmy Joy's orchestra; 8:30-9:30, Col. Bill Cole's quartet; 11-12, Jack Gardner's orchestra.

WFAA, Dallas, Texas (475,9m-630kc), 9:57 a. m., organ prelude; 10, Broadway Baptist church.

WHAS, Louisville, Ky. (399,8m-750kc), 9:57 a. m., organ prelude; 10, Broadway Baptist church. His, Christian church; 8-9:15, services; 11:15-12:15, Linwood Bivd. Christian church; 7:45 p. m., Central Christ.

Walter Moore.
WOAI, San Antonia, Texas (394.5m-760kc), 11 a. m.,
First Presbyterian church; 7:45 p. m., Central Christ-

First Presbyterian church; 7:45 p. m., Central Christian church,
WOAW, Omaha, Nobr. (526m-570kc), 6 p. m., literary period; 6:50., orchestra; 7:30, Creighton educational period; 9, classical; 10, organ jubilee.
WOC, Davenport, lowa (483.6m-620kc), 9-10 p. m., Bernard Regan, baritone; May Chambers. soprano; John Bishop, reader; Gertrude MeManus, pianist. WRR, Dallas, Texas (245.8m-1220kc), 6:10-7 p. m., dinner hour concert; 8-9 musicale.
WSM, Nashville, Tonn. (282.8m-1660kc), 7 p. m., dinner concert; 8, popular and barn dance program.
WSMB, New Orleans, La. (319m-940kc), 8:30-10:30 p. m., Bob Agularia, Ray MeNamara, pianist.
WSUI, lowa City, lowa (483.6m-620kc), 9, familiar hymns.

Mountain Standard Time Stations FXF. Colorado Springs, Colo. (249.9m-1200kc), 8:30 p. m., studio program; J. L. Greenup, tenor; O. Kelly, Bernard Kelly, banjo boys.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642kc), 7-8 p. m., Al
Wesson's orchestra; 8-9, Angelus trio; 9-10, varied
program; 10-11, Packard Radio club; 11-2 a. m.)

KFU midnight frolic.

KFWB, Hollywood, Calif. (252m-1190kc), 7:30-8 p. m.,
program, Stoll, Heckinger and Hepp; 8-9, program.

Smith Investment company; 9-11, Warner Brothers

frolic.

frolic.

(GO, Oakland, Calif. (361.2m-830kc), 8:10 p. m., Leo
J. Meyberg company; 9-0:30, Philharmonic society;
9:30-10, Tupper and Reed, Frank Sheridan, actor;
Paula Cornely, contralto; Henryetta L. Cornell, soprano;
Zilpha Allen, pianist; 10-12:30 a. m., dance muslc.
(GW, Portland, Ore. (491.5m-610kc), 6-7 p. m., dinner
concert; 10-12, Herman Kenin's dance orchestra;
Punch Green, planist.

(HJ, Los Angeles, Calif. (405.2m-740kc), 6:30-7:30
p. m., Uncle John and the children; 8-10, tower studio
presentation.

p. m., Uncie John and the thinds, presentation, presentation, KPSN, Pasaden, Calif. (315.6m-950kc), 8-9 p. m., Star News instrumental ensemble.

KTAB, Oakland, Calif. (239.9m-1250kc), 7-7:30 p. m., shopping hour.

#### Sunday, July 11

Headliners Today

Atlantic Eastern Central Mountain Pacific 8:30 p. m. 7:30 6:30 5:30 4:30 WCAU (277.6m-1080kg), Barry O'Moore, Irish topor

839 p. m. / 239
WCAU (277.6m-1080ke), Barry O'Moore, Irish
tonor.
9:15
8:15 7:15
6:15
8:15
WEAF (491.5m-610ke), WWJ (352.7m-850ke), WCCU
(416.4m-720ke), WGR (319m-940ke), WEEI
(348.6m-860ke), WSAI (325.9m-920ke), WCAI
(468.5m-640ke), Atwater (325.9m-920ke), WCAI
(468.5m-640ke), Atwater (464.5m-640ke), WSAI
(10
WCAP (468.5m-640ke), Vesper hour of music.
(10
WBAP (475.9m-630ke), Vesper symphony.
WHAR (275m-1090ke), An hour with the classics.
(11
10
9
WSUI (438.6m-620ke), Familiar hymns.
(12 m. (10
10
9
11
12 m. (11
10
9
13
WFAA (475.9m-630ke), Cruz Family symphonic five.

For stations silent tonight refer to first Sunday's list,

# Atlantic or Eastern Daylight Saving

Time Stations

CFCA, Toronto, Can. (356.9m-340ko), 11 a. m., Timothy
Eaton Memorial church; 7 p. m., St. Paul's Anglican

Time Stations

CFCA, Toronto, Can. (336.9m-340ke), 11 a. m., Timothy
Eston Memorial church; 7 p. m., St. Paul's Anglican
church.

WCAE. Pittsburgh, Pa. (461.8m-550kc), 8:30 p. m.,
dinner concert; 7:20. Capitol theater. WEAF.

WCAU, Philadelphia, Pa. (277.6m-1080kc), 5 p. m.,
recital; 5:15, undenominational church services; 5:35,
serinon, Rev. John W. Stockwell; 6:30, Botel Pennsylvania concert orchestria 8:30, Bonwit Teller ensemble,
Barry O'Moore, Irish tenor.

WEAF, New York, N. Y. (491.5m-610kc), 3-4 p. m.,
church service; 4-4:30, sacred music; 4:30-5:30, Pederation mixed quartet; 7:20-9:15, Capitol-theater; 9:159:45, Atwater Kent program, Allen McQuhae, tenor;
9:45-10-45, musical program,
WGR, Buffalo, N. Y. (319m-940kc), 10:45 a. m., Central
Presbyterian church; 9:15, WEAF,
WHAR, Atlantic City, N. J. (275, Im-1090kc), 10:45
a. m., Chelsea Baptist church; 2:15 p. m., sacred
recital, Seaside hotel trio; 7:50, Chelsea Baptist church;
9, with the classics, Seaside hotel ensemble,
WHN, New York, N. Y. (361-2m-830kc), 7:30 p. m.,
Calvary evening services; 10:45, Janssen's Hofbrau orchestra; 12, Sophie Tucker's playground,
WIP, Philadelphia, Pa. (506.2m-590kc), 10:30 a. m.,
services, Holy Trinity church,
WJZ, New York, N. Y. (434.3m-660kc), 7; D. m., Park
Avo, Baptist church carillon; 10:20, Hotel Pennsylvania
concert orchestra; 9:30, Godfrey Ludlow, violinist,
WMCA, New York, N. Y. (340-7m-880kc), 7; D. m.,
Ernie Golden and his Hotel McAlpin orchestra; 9,
Jowish Borward hour.
WOO, Philadelphia, Pa. (508.2m-590kc), 2:15 p. m.,
musical exercises, Bethany Presbyterian church.

Eastern Standard or Central Daylight

#### Eastern Standard or Central Daylight Saving Time Stations

KYW, Chicago, III. (535.4m-560ko), 11 a. m., Central church; 4:30 p. m., studio concert; 9:30-11, classical

church; 4:30 p. m., studio concert; 9:30-11, classical concert.

WBAL, Battimore, Md. (245.8m-1220kc), 7:30-8:30 p. m., twillight concert. WBAL concert orehestra.

WBBM, Chicago, III. (225.4m-1330kc), 12:30-2 p. m., noon-hour of music; 4-6, matinee; 8-10, Melody hour; 11:39-3 a. m., Nutty club.

WGBD, Zien, III. (344.6m-870kc), 8 p. m., mixed quartet, celestial bells, mandolins and organ; Hire trio: Mrs. Esther Rendall, soprano; duets, trios; Mrs. Athol Heath, planist; Mrs. Hester Robinson, reader.

WEBH, Chicago, III. (370.2m-810kc), 10:40 a. m., Seyenth Church of Christ, Scientist; 7-9 p. m., artists' program.

State of the

#### Sunday, July 11

WENR, Chicago, III. (265.3m-1130kc), 9:15 a. m. church services; 2-3 p. m., Skeeles-Biddle hour of better music: 6-7, Moody Bible Institute Evening hour; 9:30-12, midnite frolic.

WGES, Oak Park, III. (249.9m-1200kc), 10:30 a. m., M. E. church; 11:45, high mass, Our Lady of Sorrows church; 5-7:40 p. m., Frank Hayes, Joie Walsh; 11-1 a. m., Harry Davis, Fay Dillon; Eddie Freckman, McJody Glits; orchestra.

WGHP, Detroit, Mich. (270.1m-1110kc), 11 a. m., Grosse WGHP, Detroit, Mich. (270.1m-1110kc), 11 a. m., Grosse WGHP, Detroit, Mich. (270.1m-1110kc), 11 a. m., Grosse WGHP, Detroit, Mich. (270.1m-1110kc), 12 a. m., Emmanuel Baptist church; 6:30-813, music.

WGY, Schenectady, N. Y. (379.5m-790kc), 9:30 a. m., Emmanuel Baptist church; 6:20, Hotel Pennsylvania orchestra; 7, miscellaneous program; 7:30, Hotel Madison orchestra; 8:30, miscellaneous program; 9-9:30, WJZ.

WHT, Chicago, III. (225.4m-1330kc), 6:35 p. m., dinner concert, string trio; Agnes Buchli, soprano; Helen Snyder, Robert York; 10-12, popular program, artists.

WJAZ, Chicago, III. (320.5m-910kc), 7-9 p. m., elassical program, Spanish Garden studio, leading Zenth artists.

artists.
(J1D, Mooseheart, III. (370.2m-810ke), 8:15 a. m., Catholic services; 9:30-10:30, Protestant services; 1-2 p. m., Howard L. Peterson, organist; 2:30-3:30, concert; 3:30-4, Radio Bible class; 4-5:30, Symphony

cert; 3:30-4, Radio Bible class; 4-5:30, Symphony orchestra, WLB, Chicage, III. (392.8m-990kc), 5-6:15 p. m., Edward Benedict, organist. WLS, Chicage, III. (344.6m-870kc), 10:45 a. m., U. of Chicago church service; 12:30-2 p. m., Ralph Emerson, organist; 7-8:55, WLS Little Brown church. WOK, Chicago, III. (217.3m-1380kc), 6 p. m.-1 a. m., Tearney's Town club orchestra; Midway Garden orchestra; Pershing Palace orchestra; Capitol theater musical program; ensemble; studio program. WOJ, Chicago, III. (447.5m-670kc), 10 a. m., Peoples church; 3-4 p. m., choir; 8-10, Rainbo Gardens orchestra;

churen; 5-2 p. m., coat., chestra.

WSAI, Cincinnati, Ohie (325.5m-920ke), 11 a. m., Avondale Methodist church; 7:45 p. m., chimes; 8:15, WEAF; 8:45, WEAF; WEAF; 8:45, WEAF; 8:45, or, chicago, III. (275.1m-1090ke), 11 a. m., church service; 3:30-5 p. m., popular service; 7-9:30, song

service.
WTAM, Cleveland, Ohio (389.4m-770kc), 11 a. m., Baptist church; 7, Loew's theater orchestra; 8, twilight hour.

WWJ, Detroit, Mich. (352.7m-850kc), 11 a. m., services;

2 p. m., News orchestra; 4, organ recital; 6:20,

WEAF; 8:15, operatic stars.

Central Standard Time Stations Central Standard Time Stations

KFAB, Lincoln, Nebr. (340.7m.880kc), 4-5 p. m., vesper service; 9-11, Sunday evening musicale.

KFDM, Beaumont, Texas (315.6m.950kc), 11-12 p. m., Presbyterian church; 8-9, service.

KFNF, Shenandoah, Iowa (263m.1140kc), 10:45 a. m., First M. E. church; 2:30 p. m., Goldon Rule song service; 3, Swedish Mission church; 6:30, Goldon Rule circle; 8, Christian church services.

KFUO, St. Louis, Mo. (345.1m.550kc), 9:15 p. m., "God Bless Our Homes," Rev. R. Kretzschmar.

KLDS, Independence, Mo. (440.9m.680kc), 11 a. m., Stone church services; 3 p. m., studio program; 6:30, Radio vesper service; Walnut Park quartet; 9:15, studio service; Hazel Scott, organist.

KMOX. St. Louis, Mo. (280.2m.1070kc), 8 p. m., KFOQA. The Principia; 9, Skouras Brothers Sunday night club.

studio service; Hazel Seott, organist, KMOX, St. Louis, Mo. (280.2m-1070kc), 8 p. m., KFQA, The Principia; 9, Skouras Brothers Sunday night club.

KOIL, Gouncil Bluffs, Iowa (278m-1080kc), J1 a. m., First Congregational church; 7:30 p. m., Paramount program, Collego club orchestra; 11, Hotsy Totsy hour. KSO. Clarinda, 10wa (241.8m-1240kc), 11 a. m., First M. E. church.

KVOO. Bristow, Okla. (374.8m-800kc), 12:30-7 p. m., plpe organ; Rev. Leeper and his twenty-piece string band; Laughton Family; Oklahoma Cowboy band, Cushing Military band; 7:30-9, worship hour.

WADC. Akron. Ohlo (258.5m-1160kc), 12:30 p. m., Organ recital, Allen theater.

WHAP, Fort Worth, Toxas (475.9m-630kc), 9:30-11 pm., HIred Hand's Little symphony.

WPAA, Dallas, Texas (475.8m-630kc), 6:7 p. m., Radio Bible class; 7:15-8, Monamela male quartet; 3-9, City Temple service; 9-9:30, Willard B. Muse, tenor; Ruth Muse, contralto and planist; 11-12, Cruz familly symphonie five.

WMC, Memphis, Tenn. (499.7m-600kc), 11 a. m., St. Mary's Episcopal cathedral.

WOAW, Omaha, Nebr. (326m-570kc), 9 a. m., chapel service; 1:30 p. m., Father Flanagan's Boys' home period; 2:30, classical.

WOC, Davenport, Lewa (483.6m-620kc), 8-8:30 p. m., service; 9:30-10:30, Palmer little symphony.

WRR, Dallas, Texas (245.8m-1220kc), 10:45 a. m., St. Matthew's cathedral; 7:30 p. m., St. Matthew's cathedral; 9:30-10:30, musicale.

WSM. Nashville, Fenn. (222.8m-1060kc), 10:30 a. m., First Presbytcrian church.

Mountain Standard Time Stations FXF, Colorado Springs, Colo. (249.9m.|200kc), 11 a. m., First Presbyterial church services; 7:45 p. m., Jim Goodheart's Denver sunshine mission services.

Pacific Standard Time Stations
FI. Los Angeles, Calif. (467m-642kc), 7-8 p. m., Jim
Jack and Jean trio; 8-9, Aeolian organ; 9-10, Badger's
Hollywood Californians; 10-11, Packard six dance orchestra.

KFWB, Hollywood, Calif. (252m-1190kc), 9-11 p. m., Warner Brothers frolic featuring Len Nash and his Warner Brothers frolic featuring Len Nash and his Town band.

KGW. Portland. Ore. (491.5m-610ke), 10:45-12 noon, services. First Presbyterian church; 7:30-9 p. m., East Side Baptist church; 9-10, Chevrolet sympbony orchestra.

KHJ. Los Angeles, Calif. (405.2m-740ke), 7-8 p. m., service, First Methodist Episcopal church; 8-10, Orpheus Four male quartet.

KPSN. Pasadena, Calif. (315.6m-950ke), 10:50 a. m., First Baptist church; 7:30, Maryland Artists' ensemble.

#### Monday, July 12

Atlantic Eastern Central Mountain 2
6 p. m. 5 4 3
WRC (468.5m-640kc), U. S. Navy band. 6 30
8.30 7:30 6.30
KOLL (278m-1080kc), Fortinghtly musical club, WCOA (222m-1330kc), Te olde Tyme Fiddlers, WHAZ (379.5m-790kc), Trorad mixed quartet. 10:30 9:30 8:30 7:30 6:30
WSMB (319m-940kc), Strand theater, 12 m. 11 10 9
WOODD (241.8m-1240kc), 25th Woodpile, 1a. m. 12 m. 12 m. 11 10 9
KNX (38.6-m-890kc), Julian Pete minstrel show. 1:15 12:15 11:15 10:15 9:15
KOA (222.4m-930kc), Burlesque, Midwest Lyceum bureau. Headliners Today

Monday, silent night for: CKAC, CNRA, CNRC, CNRE, CNRM, CNRO, CNRR, CNRT, CNRV, CNRW, KHJ, KPSN, KWSC, KYW, WBBM, WCBD, WEBJ, WEBJ, WGBF, WGBS, WGF, WGN, WHA, WHT, WIBO, WIP, WJAZ, WJJD, WLIB, WLS, WMAQ, WMBB, WOAI, WOC, WOK, WORD, WQJ, WRC.

#### Atlantic or Eastern Daylight Saving

Atlantic or Eastern Daylight Saving
Time Stations

CKNC, Toronto, Can. (356.9m.840kc), 9 p. m., Eveready orchestra; Mrs. Harry Hodgetts, soprano; Charles Shearer, bartione.

WCAE, Pittsburgh, Pa. (461.3m.650kc), 6:30 p. m., dinner concert; 8, studio music; 10, WEAT; 11:05, dance program.

WCAU, Philadelphia, Pa. (277.6m-1080kc), 7:30 p. m., rectial, N. Snellenburg and company; 8, Carrolyn Thomas, soprano; 8:30, the Hood boys; 8:45, Merry ministrels; 9:30, Roy Tracy, tenor; 9:45, Chalfant aisters, harmony songs; 10, Madrigal mixed quartet.

WEAF, New York, N. Y. (491.5m-610ke), 6-12 mldnlght, dinner music; A. and P. Gypsies; grand opera; Ben Eernic and his orchestra.
WFI. Philadelphia, Pa. (394.5m-760ke), 6:30 p. m., Bellevue Stratford concert orchestra; 7, Bellevue Stratford donce orchestra; 7, Bellevue Stratford donce orchestra;

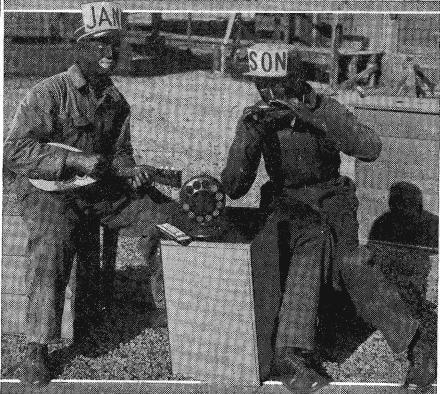
ford dance orchestra.

WGR, Buffalo, N. Y. (319m-940kc), 6:30 p. m., Knell's
Tokto dance orchestra; 9, studio program; 10:30, Harmony club quartet; 11, Viucent Lopez Hotel Statler
dance orchestra.

Ernie Golden and his Hotel McAlpin orchestra; 7:15, Ernie Golden and his Hotel McAlpin orchestra; 9:15, Hardman hour of music; 10:30, Woodmansten Inn orchestra; 11, Jack Denny's orchestra; 12, McAlpin entertainers. WNYC, New York, N. Y. (526m-570kt), 6 p. m., piano

selections.

WOO, Philadelphia, Pa. (508.2m-590kc), 7:30 p. m.,
Ritz Carlton dance orchestra; 9, WEAF; 11, dance
orchestra.



Rushey and Bill, alias "The Janitor and His Son," alias "Gloomchasers of the Lone Star State," snapped during one of their informal programs on the roof garden, WFAA.

WHAR, Atlantic City, N. J. (275.1m-1090kc), 8 p. m., program; Seaside hotel trio; 11, Follies Bergere dance orchestra.

WHN, New York, N. Y. (361.2m-330kc), 6:30 p. m., WHN Movle club; 7:30, Joe Ward's Swanne entertainers; 8, Roseland dance orchestra; 3:30, George's surprise; 9, Leverich Three and "Peter the Great"; 9:20, Leverich Three and "Peter the Great"; 10, Palisades Amusement Park orchestra; 10:30, Leroy Smith's orchestra; 11:30, Club Alabam orchestra; 12, Silver Slipper orchestra.

WIP. Philadelphia. Pa. (508.2m-590kc), 6:05 p. m., Benjaumin Franklin concert orchestra; 7, Uncle Wip's bedtime stories.

WJAR, Providence, R. I. (305.9m-980ke), 7:45 p. m., musicale; 9, WEAF; 10, WEAF.

WJZ, New York, N. Y. (454.3m-660kc), 7:55 p. m., John B. Kennedy; 8, Maxwell House Coffee ensemble; 9:30, Fireside Boys; 10:45, Harry Leonard's Waldorf-Astoria grill erchestra.

WLIT, Philadelphia, Pa. (394.5m-760kc), 8 p. m., short Agro-Waves, Charles F. Shoffner; 8:30, Starr Plano company artists; 9, Stanley theater hour; 10, Arcadia cafe dance orchestra; 10:30, vaudeville; 10:45, Bonjamin Franklin El Patlo dance orchestra.

WLWL, New York, N. Y. (288.3m-1040kc), 9:15 p. m., soprano; 9:30, violin recital; 10, ensemble.

WMCA, New York, N. Y. (340.7m-880kc), 6:30 p. m.,

Thursday, July 1

Atlantic Eastern Central Mountain Pacific
7.30 p. m. 6:30 5:30 4:30 3:30
WGY (379.5m-790ke), Book talk.

8 7 6 5 4 WJZ (454.3m-660kc), "Rainbo Riley," motion pic-

WJZ (404.3m-000ac), Arabico ture, 9.55 8.55 7.55 6.55 5.55 WLS (344.6m-870kc), Gold, Amber Andrews, 10:30 9:30 8:30 7:30 6:30 WORD (275m-1090kc), Travel talk, Clarence J. Perfitt.

### Priday, July 2

Atlantic Eastern Central Mountain Pacific 7:35 p. m. 6:35 5:35 4:35 3:35

WTIC (475.9m-630kc), "Fire Prevention." 4

WOAW (526m-570kc), Music review, Hester Bronson Copper.

Monday, July 5

Atlantic Eastern Central Mountain Pacific 10 p. m. 9 8 7 6 WRVA (256m-1170kc), Virginia Folk Lore, Dr. Freeman.

Thursday, July 8
Atlantic Eastern Central Mountain
7:30p.m. 6:30 5:30 4:30
WGY (379.5m-790ke), Outdoor talk.

Perfitt.
11 10 9 8 7
KFWB (252m-1190ke), Fishing and hunting.

WHAR, Atlantic City, N. J. (275.1m-1090kc), 8 p. m., program; Seaside hotel tric; 11, Follies Bergere dance orchestra.

WHN, New York, N. Y. (361.2m-830ke), 6:30 p. m., WHN Movie club; 7:30, Joe Ward's Swanee entertainers; 8, Roseland dance orchestra; 8:30, George's surprise: 9. Leverich Three and "Peter the Creat": 11:15, Ben Bemile Berkeloy Cartaret grill.

YTAM, Cleveland, Ohio (389.4m-770kc), 6 p. m., Hollenden hotel orchestra; 8, Willard symphony; 9, studio program; 10, Willard symphony.

## Eastern Standard or Central Daylight

Saving Time Stations
WGHB, Clearwater, Fla. (265.3m-1130kc), 8:30-10 p. m.
Homer Moore recital.

Homer Moore recital.

WGHP, Detroit, Mich. (270.1m-1110kc), 6 p. m., dinner concert; 8, Little symphony orchestra; Leona Mitchell, soprano; T. Stanley Perry, tenor; 8:30-9:30, Famous composer's hour; 9:30-10, Little symphony orchestra, soldsts; 12-1 a. m., Gerald Marks' orchestra.

WGY, Schenestady, N. Y. (379.5m-790kc), 5:30 p. m., dlnner program, Hotel Van Curler; 6:30, studio program; 8, studio program; 8, studio program.

gram; 8, studio program.

WHAZ, Troy, N. Y. (379.5m-790kc), 8:30 p. m., Trorad
mixed quartet.

WOOD, Grand Rapids, Mich. (241.8m-1240kc), 9 p. m.,
Corduory Tire Little symphony orchestra; 10:05, Sav-utime program; 10:35, Grand Rapids Radio company

GENERAL TALKS AND SPEECHES Eastern Central Mountain Pacific m. 7:15 6:15 5:15 4:15

Atlantic Eastern Central Mountain Pacific 8:15 p. m. 7:15 6:15 5:15 4:1 WTIC (475.9m-630kc). Medical talk. 11 10 9 8 7 KFWB (252m-1190kc). Fishing and hunting. Atlantic Eastern Central Mountain Pacific 7:35 p. m. 6:35 5:35 4:35 3:35 WTIC (475.9n-630ke), "Pull Over!" by a "Motor Cop." 8 7 6 5 4
WOAW (526m-570kc), Music review, Hester Bronson Copper, 10 9 8 7
WNYC, (526m-570kc), Talk, Dr. Frank Vizetelly.

Saturday, July 10

Atlantic Eastern Central Mountain Pacific 8:45p.m. 7:45 6:45 5:45 4:45

WRC (468.5m-640kc), "The Work of Congress."

8 7 6 5 4 WOR (405.3m-740ke), Current Events, H. V. Kal-WOR (495.3m-749ke), Current Eventos, E. T. Lantenborn.
8:30 7:30 6:30 5:30 4:30
WLW (422.3m-710ke), Talk on eyes, Dr. Kaufman.
10 8 7 16 WRVA (256.3m-1170ke), "True Virginia Lore,"
Dr. Douglas S. Freeman.
11:15 0:15 9:15 8:15 7:15
KFUO (545.1m-550ke), "Our Country's Past,"
Rev. F. Neebe.

WEBJ (272.6m-1100kc), R. R. talk, G. T. Geer. 9 8 7 6 5 5 20 
WKRC (422.3m-710kc), Book review, Alice B. Coy. 9:20 8:20 7:20 6:20 
WMAQ (447.5m-670kc), Architects' Small House Service talk, 9:30 6:30 5:30 
WMAQ (447.5m-670kc), "United States Government Activities in Chicago." 6 9 
WJZ (454.3m-660kc), Grand tour. 11 10 8 7 
WMAQ (447.5m-670kc), Book talks. 11:30 10:30 9:30 8:30 7:30 
KHJ (405.2m-740kc), Dogs. 3:30 7:30 
KHJ (405.2m-740kc), "Outdoors in Minnesota." Wednesday. Tuly 14

Shaw.

Shaw.

9
8
7
6
WHB (365.6m-820kc), Automotive talk.

11
10
9
8
7
KFUO (545.1m-550kc), "What Is the Sin Against the Holy Ghost," Prof. M. S. Sommer.

period; 11, Wild and Wouly Wood Workers' club, 25th Woodpile, /RC, Washington, D. C. (468.5m-640kc), 5-6:20 p. m., U. S. Navy bund. WRVA, washington, D. C. (498.311-940KC), 5-0:20 p. in., U. S. Navy bund.
WRVA, Richmond, Va. (256.3m-1170kc), 8:45 p. in., plano rectial; 9, "Edgar Allen Poe's Home," Dr. Douglas Freeman; 10:30, Hotel Richmond Summer Garden orchestra.
WSAI, Ginelmati, Ohio (325.9m-920kc), 10 p. m., musicala sicale.

WWJ, Detroit, Mich. (352.7m-850kc), 6 p. m., dinner concert; 7:30, Goldman band concert; 9, Nows or-

Central Standard Time Stations

KFAB, Lincein, Nehr. (340.7m.880ke), 5:30-6:30 p. m., dinner concert, 8:30-10:30, Old-time Time night.

KFH, Wichita, Kans. (267.7m.1120ke), 7 p. m., Gage Brewers' Hawatians; 7:40, Harold Mahaney, Velmu Varner; 8, piano playing contest.

KFNF, Shenandoah, Iowa (263m-1140ke), 7 p. m., concert, Henry Field Seed company.

KMOX, St. Louis, Mo. (280.2m-1070ke), 6:30 p. m., Jacquinot Jules, organist; 8. KMOX Radio orchestra; 9, orchestra; 9:30, Bamalogue; 10, orchestra; soloists.

KOIL, Council Bluffs, Iowa (278m-1080kc), 6:30 p. m., N. S. Naval Reserve band; 7:30, Fortnightly musical club; 9, artists' program; 10, studio program; 11, Hotsy Totsy hour.

KPRG, Houston, Texas (296.9m-1010kc), 7:30 p. m., Records' Ramblers; 8, Max E. Shippee, tenor; 8:15, dance music.

dance music.

KSO, Clarinda, lowa (241.8m-1240kc), 8 p. m., Hay
Mow Fire.

KSO. Clarinda, Iowa (241.8m-1240kc), 8 p. m., Hay Mow Fire.

(KWWG, Brownsville, Texas (277.6m-1080kc), 8:30-9 p. m., Mr. John McCleary, violinist; 9-9:30. Mrs. F. C. Retiss, contratio; Miss Bernice Hutton and Miss Beth Sewell, pianists; 12-1 a. m., novelty and jazz.

WADC, Akron. Ohio (258.5m-1160kc), 9 p. m., Roseland dance orchestra.

WAAP, Fort Worth. Texas (475.9m-630kc), 7:30-8:30 p. m., Northern Texas Traction company's speed; 9:30-11, program, Alfred Broward, director; 11-12, musicale.

WCOA, Pensaoola, Fla. (222m-1350kc), 7 p. m., Ye Olde Tyme fiddlers.

WCOA, Pensacola, Fla. (222m-1350kc), 7 p. m., Ye Olde Tyme fidders.

WFAA, Dallas, Texas (475.9m-680kc), 6:30-7:30 p. m., Ford's Texas Trumpeters; 8:30-9:30, Sears-Roebuek Agricultural Foundation program, Sears-Roebuek WHB, Kansas City, Mo. (365.6m-820kc), 7-8 p. m., Sweeney Radio orchestra.

WMC, Memphis, Tenn. (499.7m-600kc), 8:30 p. m., Hugh Sandridge, WOAI, San Antonio, Texas (394.5m-760kc), 8:30 p. m., Sunshine Laundry orchestra.

WOAW, Omaha, Nebr. (326in-570kc), 6 p. m., Hugo G. Heyn, marimba; Emil B. Hoffmann, pianist; 6:50, orchestra; 9, classical.

WRR, Dallas, Texas (245.8m-1220kc), 6-7 p. m., Edgar Norris, pianist; 8-9, Magnolia orchestor.

Norris, pianist; 8-9, Magnolia orchestra.

WSM, Nashville, Tenn. (282.8m-1060kc), 7 p. m., dinner concert; 8, Mrs. Frank Gussman, soprano; Mrs. Helen Boyd, accompanist; 10, Vito and his Radio five WSMB, New Orleans, La. (319m-940kc), 8:30-10:30 p. m., Dixola Novelty orchestra; Strand theater orchestra p. m., Diagram. Chestra. (483.6m-620kc), 8 p. m., musi-

Mountain Standard Time Stations FXF, Colorado Springs, Colo. (249.9m-1200kc), 9 p. m., Dorothy Ehler Phillips, soprano; Jos. R. Long, Jr., barltone; Tom Torrington, piano.

Pacific Standard Time Stations

KFI, Los Angeles, Calif. (467m-642ke), 7-8 p. m.,
Owen Fallon's Californians; 8-9, popular program;
9-10, program, Walter M. Murphy Motors company,
KPO; 10-11, popular program, Meiklejohn Brothers,
KFWB, Hollywood, Calif. (252m-1190ke), 7:30-8 p. m.,
program, Dr. Ralph Mitchell and Associated Dentists;
8-9, program, Sealy Mattress company; 9-10, American
Dye Works program; 10-11, Warner Brothers frolic. KGW, Portland, Ore (491.5m.610kc), 6-7 p. m., dinnor concert; 8-9, organ recital; 9-10, vaudeville entertainment; musical acts, Punch and Judy. Columbia Knit Mermaids; 10-12, Cole McElroy's dance orchestra.

#### Tuesday, July 13

Headliners Today

Atlantic Eastern Central Mountain Paoif 9:30 p. m. 8:30 7:30 6:30 5:30 WBAP (475.9m-630kc). Two Marguerites. WLWL (288.3m-1040kc), Premier male quartet. 10 9 76 KSO (241.8m-1240kc), Bakers Music Makers. WHB (365.6m-820kc). K. C. Symphonic quintet. WSM (282.8m-1060kc), Golden Echo quartet. 11:30 10:30 9:30 8:30 7:30 WHN (361.2m-830ke), Sophie Tucker's Playground.

For stations silent tonight refer to first Tuesday's list.

### Atlantic or Eastern Daylight Saving

Time Stations

WGAE, Pittsburgh, Pa. (461.3m.650kc), 6:30 p. in., dliner concert; 8, WEAF; 8:30, WEAF; 9, WEAF; 10. musicale, WGAU, Philadelphia, Pa. (277.6m-1080kc), 7:30 p. m. Snellenburg instrumental trio; 8, theater digest; 8:10, the Three Brothers; 8:25, Peter Ricci, baritone; 8:43, Higgins and Burke, song writers; 9, Kuehnle's artists; 9:30, Robert Fraser, blind gospel singer; 10, recital; 10.15, Eddie Malle and entertainers; 10:30, Cathay Garden orchestra.

Garden orchestra.

WEAF, New York, N. Y. (491.5m-610kc), 6 p. m., dinner music; 8, Grand Prize Eurekas, WEEI, WFI, KSD, WCAE, WWJ, WCSH, WSAI, WTAG, WGR, WCCO, WOC, WTAM, WJAR, 8:30, Gold Dust Twins, WEI, WFI, WCAE, WGR, WWJ, WOC, WCSH, WJAR, WCCO, WLIB, WTAM, KSD; 9, Eveready hor, WEEI, WFI, WCAE, WGR, WWJ, WOC, KSD, WJAR, WCO, WTAG, WGN, WTAM, WSAI; 10, Variety half hour; 10:30, Ben Bernie and his orchestra; 11-12, Buffalodians dance orchestra; 8, WEAF, WFI, Philadelphia, Pa. (394.5m-750ko), 6:45 p. m., Bellewe Strafford dance orchestra; 8, WEAF, WGR, Buffalo, N. Y. (319m-940kc), 6:30 p. m., Vincent Lopez Hotel Statler dance orchestra; 8, WEAF, WHAR, Atlantic City, N. J. (275.1m-1090kc), 8 p. m.

were, building it. 1. (15m1-340kc), 0.30 p. m., 7.11 cent Lopez Hotel Statler dance orchestra; 8, WEAF.
WHAR, Atlantic City, N. J. (275.1m-1090kc), 8 p. m., Seaside hotel trio.
WHN, Wew York, N. Y. (361.2m-830kc), 6:30 p. m., Everglades orchestra; 7:30, Will oakland's chateau; 8, Treasureland neighbors; 10, Universal trio; 10:15, Jiumny Clark and his entertainers; 10:30, Strand roof orchestra; 11:30, Sophie Tucker's playground; 12, Country club orchestra.
WIP. Philadelphia, Pa. (508.2m-590kc), 6:15 p. m., Benlamin Franklin concert orchestra; 7, Uncle Wip's bedtime stories; 8, Program from Marine studio; 8:30, Murphy's minstrels; 9, Chalfonte-Haddon Hull dual trio; 10:15, Emo's weekly movie talk; 10:30, rocital, Karl Bonawitz, organist; 11, Million Dollar Pier orchestra; 11:30, Silver Slipper club dance orchestra and revue.
WJAR, Providence, R. 1. (305.9m-980kc), 7:30 p. m.,
musicale; 8-10, WEAF.

musicale; 8-10, WEAF, WJZ, New York, N. Y. (454.3m-660ke), 7:05 p. m., Frank Dole; 7:20, Harry Leonard's Waldorf-Astoria roof orchestra; 3, One-up Cut-ups; 8:30, Deltah Pearl hour, WRC, WGY; 10, the Grand tour, WRC, WGY; 10:45, George Oisen's Hotel Pennsylvania roof orchestra

roof orchestra: 3, One-up Cut-ups; o.so, WRC, WGY; hour, WRC, WGY; 10:45, George Olsen's Hotel Pennsylvania roof orchestra.

WLIT, Philadelphia, Pa. (394.5m-760ke), 7:30 p. m., Ben Franklin El Patio dance orchestra.

WLWL, New York, N. V. (288.3m-1040ke), 9 p. m., studio program; 9:30, Premier male quartet; 9:45, piano recital; 10, tenor solo; 10:30, Premier mato quartet.

WMCA, New York, N. Y. (340.7m-880kc), 7 p. m., Holbrau Haus entertainers; 8:15, "Muscle Shoals"; 8:30, Time-0-Stat musical program; 9. Paul Whitenan's Piccadilly players; 9:30, Columbia Park entertainers; 10:30, Woodmansten Inn orchestra; 11, Ernie Golden and his Hotel McAlpin orchestra; 12, McAlpin entertainers.

and his Hotel McAlpin orchestra; 12, Healpin check tainers,
WNYC, New York, N. Y. (526m-570ke), 6:35 p. m.,
piano selections.
WOO, Philadelphia, Pa. (508.2m-590ke), 7:30 p. m.,
Adelphia Roof Gaden orchestra.
WOR, Newark, N. I. (403.2m-740kc), 6:30 p. m.,
Jacques Jacobs' Hotel Shelton ensemble.

#### Tuesday, July 13

## Eastern Standard or Central Daylight

Saving Time Stations

KYW, Chicago, III. (335.4m-560kc), 7-8 p. m., musical program; 9:30-10:30, classical concert; 10:30-11:30, Congress carnival.

concert; 10:30-11:30, Congress carnival.

WBBM, Chicago, III. (225.4m-1330ke), 8-12 mid., Alemite orchestra; Moss Covered melodies.

WGBD, Zion, III. (344.6m-370ke), 8 p. m., cornet quartet; Wiedman sisters; male quartet; Esther Wiedman, soprano; Chester Bagg, baritone; L. Hire, violist; Arthur Rendall, clarinetist; Mrs. Blanche Reynolds-Kesler, reader; Richard Hire, planist.

WEBH, Chicago, III. (370.2m-810ke), 7-8 p. m., Edgewater Deach hotel orchestra; Kathryn Forbes; Lydia Lociner; 9:10-10, Uptown theater; 11-12:30 a. m., Cook Sisters, orchestra; Harmony singers.

WENR, Chicago. III. (255.3m-1130ke), 6-7 p. m.,

WENR, Chicago, III. (265.3m-1130ke), 6-7 p. m., Rutland lyric tric; 8-9. Arthur Dunas, popular program; 9-10, Moody Elble Institute evening hour.

gram; 9-10, Moody Elible Institute evening hour.

WGES, Oak Park, Ill. (2'9).9m-1200ke, 5-7 p. m.,
Paradise Plane; Peggy and Esther; 8-9. Tom Wheeler,
Joie Wulsh, Brank Haves, Peggy O'Neill; 11-1 a. m.,
Bobby Lee, Peggy O'Neill; Esther Richards, Clarence
Thedors, Flo and Ray.

WGHP, Detroit, Mich. (270.1m-1110ke), 6 p. m., dinner
concert; 8, Skylark dance band; Harry Hayes, banjoist;
Gladys Sanderson and her uke; Harmony four; 12-1
a. m., Gerald Marks' orchestra.

WGN Chicago, Ill. (302.8m-990ke), 6:30.7-15 p. m.

WGN. Chicago, III. (302.8m-990kc), 6:30-7:15 p. m., Blackstone string quintet, Drake concert ensemble; 8-9, WEAF; 9-10, feature; 10:40-11, musical program, en-semble.

semble.

WGY, Schenectady, N. Y. (379.5m-790kc), 5:30 p. in., dimer program, Hotel Van Curler; 6:45, WGY studio program; 7:30, WJZ; 8, mixed quartet; 9, WJZ; 9:30, Beaver hour.

WHT, Chicago, III. (399.8m-750kc), 7 p. m., organ-cital, Al Carney; 7:40, chapei; 8:45-10:15 (283m-1260kc), Cinderella cafe orchestra; 10:50 (399.8m-750kc), Pat Barnes and Al Carney; 11, Art Becker, pianist.

planist.

WIBO. Chicage, III. (225.4m-1330ke), 6-8 p. m., dinner concert. Chester Newman, barttone; Charlotte Edwards, contralto; Eugene Wallenius; Margaret Cade, soprano; string trlo; 12, Ted Fiorito, Dan Russo, Marie Tully, Wayne Myers, Jack Goodwin, Ray Hibbler, Joe Coffee, Hanys Erocker

Wayne Myers, Jack Goodwin, Ray Hibbler, Joe Coffee, Harry Brooker.

Waz, Chicago, III. (329.5m.910ke), 9-12 mld. Chez Plerre studio program; Earl Hoffman's Chez Pierre orchestra; William Hayden, tenor; Frances Rossmary Schieb, sopramo; Henrietta Nolan, violinistes William Hayden, Lenor; Frances Rossmary Schieb, sopramo; Henrietta Nolan, violinistes, September of the Strategy of t

WAAQ Chicago, III. (447.5m.670kc), 6 p. m., Chicago theater organ; 6:30, Hotel LaSalle orchestra; 9:20, muslc.

WMBB, Chicago, III. (249.9m.1200kc), 7-8 p. m., Trlanon ensemble; Genevieve Barry Burnham; 9-11, Trlanon ortectstra; Jue Warner, Work, Chicago, III. (217.3m-1380kc), 6-7 p. m., Tlp-Top Inn; 10-1:30 a. m., Tearney's Town club ordinestra; Pershing Falace orchestra; Midway Garden orchestra; Capitol theater program, studio program.

WOOD, Grand Rapids, Mich. (241.8m-1240kc), 9 p. m., Ye Olde Tyme Songe Feste, Roy Clark, Sally Simpkins, Marian Cusser, Jim Forshey, Claude Lee; 9:30, Regent Grand orchestra; 9:15, Melissa Dvorak, pianist, 10:5, Henry Ford old-time dance.

WGI, Chicago, III. (447.5m-670kc), 7-8 p. m., Rainho Gardens orchestra; 10-2 a. m., Rainbo Gardens orchestra; Jory Sullivan; Hal Lansing; Bert Davis; Everett Georgo Ople; Harold Olson, bartione; Jla Shannabrook, suprano; Romo Vincent, boy baritone; Will Rossiter; Johnny Poat, bartione; Fla Shannabrook, Suprano; Romo Vincent, boy baritone; Will Rossiter; Johnny Poat, bartione; Tell Taylor, tenor; WRC. Washington, D. C. (468.5m-640kc), 7 p. m., Wilz; 9:30, aunounced; 10:30, Meyer Davis' Le Paradis band.

WSAI, Cincinnati, Ohio (325.9m-920kc), 7 p. m., WEAF; 7:30, muslcale; 8, WEAF; 9, muslcale.

WSMS, Chicago, III. (275.lm-1090kc), 6 p. m., Josephine Oliver, violinist; Zola Haynes, duleetone; W. A. Dyckman, bass; Terrace Gardens orchestra; 8, Cook Sisters, Jen St. Anne; Christian A. Grimm, pianist; Gus Edwards orchestra; 10, Terrace Gardens quintet; Zola Haynes; 12-1 a. m., Witching hour.

WTAM: Cleveland, Ohio (339.4m-770kc), 6 p. m., dinner concert? T. WEAF; 7:00, wears, and dinner concert? T. WEAF; 10, studio program; 11, orchestra.

utheater value of the concert: 7, WEAF.

Central Standard Time Stations

(FAB. Lineoin, Nebr. (340.7m-880kc), 5:30-6:30 p. m.,
Little symphony orchestra; 8:05-10:30, program, University of Nebraskot, Texas (315.6m-950ko), 7:30-8 p. m.,
children samparam; 8-10, orchestra
(KINF, Shemdock), 16wa (263m-1140kc), 7 p. m., oldtime music, Hay Mow Fire,
(KLDS, moterations, Movernous, Mo

Anderson, baritone; 10, cnimes; AITS. Frails Lloward, soprano.

KOIL, Council Bluffs, lowa (278m.1080ke), 6:30 p. m., Randall's Royal orchestra; 7:30, Mona Motor four; 8, Paramount program; Grace Steinberg, soprano; 11, Hotsy Totsy hour.

KPRC, Houston, Texas (296.9m-1010ke), 7:30 p. m., Billie Mack's dance orchestra.

KSO. Clarinda, lowa (241.8m-1240ke), 8 p. m., Bakera' Musle Makers.

KSO. Clarinda, Iowa (241.8m-1240kc), 8 p. m., Bakers' Music Makers.
KV00, Bristow, Okla. (374.8m-800kc), 6-9 p. m., Jimmle Wlson and his Catfish string band.
WADC, Akron, Ohio (258.5m-1160kc), 8 p. m., Miller Mid Creamery company; 9, Roseland dance orchestra; 10, Times Press hour.
WBAP, Fort Worth, Texas (475.9m-630kc), 7:30-8:30 p. m., Clyde Massengale, baritone; Mrs. Florence Massengale, pianist; 9:30-11, Two Margueriers.
WFAA. Dallas, Texas (475.9m-630kc), 6:30-7:30 p. m., Shaw-Smith collage club orchestra; 8:30-9:30, Matthews Brothers male quartet; 11-12, Jimmy Joy's orchestra.

chestra.

W6BF, Evansville, Ind. (283m-1270kc), 7 p. m., musicale: 8, Courier classical hour.

WHAS, Louisville, Ky. (399.8m-750kc), 7:30-9 p. m., the Dixio serenadors.

WHB, Kansas City, Mo. (365.6m-820kc), 7-7:30 p. m., Morrill Moore, organist; 8-9, K. C. symphonic quintet.

WMC, Memphis, Tren. (499.7m-600kc), 8:30 p. m., musicale; 11, Britling's Cafeterla orchestra.

WOAW, Omaha, Nebr. (526m-570kc), 6:20 p. m., popular song period; 6:50, orchestra; 9, program, George

nar song period; 6:50, orchestra; 9, program, George H. Lee company.

WOC, Davenport, Iowa (483.6m-620kc), 6-8 p. m.,

WERR, Dallas, Texas (245.8m-1220kc), 6-7 p. m., Jack
Gardner's orchestra; 8-9. Montgomery studio.

WSM, Nashville, Tenn. (282.8m-1060kc), 8 p. m., Golden
Echo quartet.

Mountain Standard Time Stations

KFXF, Celgrado Springs, Colo. (249.9m-1220kc), 8:30 p. m., studio program, direction of Miss Grace Casey.

Pacific Standard Time Stations (FI, Los Angeles, Calif. (467m-642kc), 7-8 p. m., Virginia ballroom orchestra; 8-9, screen artists quartet; 9-10, varied program; 10-11, Packard Radio club in popular songs.

popular songs.

FWB, Hollywood, Calif. (252m-1190ke), 7-7:30 p. m., program, Morris and company; 7:30-8, program, White Auto company; 8-9, studio program; 9-10, program, American Brake Testing company; 10-11, Warner Brothers frolic.

KGW, Portland, Ore. (491.5m-610ke), 6-7 p. m., dinner concert; 10-12, dance music, Multnomah hotel, Herman Kenin's dance orchestra; pianid.

KHJ, Los Angeles, Calif. (405.2m-740ke), 6:30-7:30 p. m., weekly visit Queen Titunia and Sandman; 8-10, Times de luxe program.

KPSN, Pasadena, Calif. (315.6m-950ke), 8-9 p. m., Star-News ensemble; George Frenger, tenor.

#### Wednesday, July 14

Headliners Today

Atlantic Eastern Central Mountain 2 2 3 WRC (468.5m-640ke), U. S. Marine band. 8:30 7:30 6:30 5:30 4:30 WJZ (454.5m-660ke), New York Philharmonic. WMCA (340.7m-880ke), Meister Homestenders. 9:30 8:30 7:30 6:30 5:30 WCOA (22m-1350ke), U. S. Air Station band. WGHB (265.5m-1130ke), Virginia Girl. WHAS (399.8m-730ke), Kentucky Night Owls. 10:30 9:30 8:30 7:30 6:30 KPIRC (296.9m-1010ke), Popular skyline studio concert. 11:30 10:30 9:20 P-20 7:20 concert. 11:30 10:30 9:30 8:30 7:30 KMOX (280.2m-1070kc), "Little Mexico."

For stations silent tonight refer to first Wednesday's list.

### Atlantic or Eastern Daylight Saving

Atlantic or Eastern Daylight Saving
Time Stations

CFCA, Toronto, Can. (356.9m.840kc), 11 p. m., Gilbert
Watson and his orchestra.

WCAE, Pittsburgh, Pa. (461.3m.650kc), 6:30 p. m.,
dinner concert, William Penn hotel; 8, WEAF; 8:39,
WEAF; 9, concert; 10, WEAF.

WCAU, Philadelphia, Pa. (277.6m.1080kc), 7:30 p. m.,
recital, Snellenburg and company; 8:10, Hotel Pennsylvania orchestra; 8:39, Miller plano period; 9, White
and Mazer, songs; 9:45, Senator Hassenplesser; 10,
recital; 10:30, Zoehrns and Herscher, popular songs;
10:45, Frank Cook, old-time songs; 11, Artie Bittong's
cheer-ups.

cheer-ups.

WEAF, New York, N. Y. (491.5m-610kc), 6 p. m., dinner music; 7:30, musicale; 8, Shinola Merrymakers, Gentlemen of the 2 in 1, WTAG, WCAE, WWJ, WJAR, KSD, WGR, WEEL, WOO, WCSH, WOC, WCCO, WCAP, WSAI; 8:30, Davis Saxophone octet, WOO, WCAE, WSAI, WEEI, WJAR, WGR, WGSH; '9, 1pana Troubadours, WEEI, WCAP, WOO, WWJ,

WLIB, WCCO, WCC, WGR, WSAI, KSD; 10, "Yeonan of the Guard," light opera company, WCAP, WJAR, WDAF, WEEI, WTAG, WCAE, WWJ, WCSE, KSD, WTIC; 11-12, Pelham Heath Inn orchestra.

WFI, Philadelphia, Pa. (394.5m-760ke), 6:30 p. m., Bellevue Stratford concert orchestra; 7, Bellevue Stratford concert orchestra.

WGR, Buffale, N. Y. (319m-940kc), 6:30 p. m., concert; 8, WEAF; 10, Harry Reld, popular program; 10:30, violinist; 11, Vincent Lopez and his Casa Lopez orchestra.

orchestra; 10, Work, N. Y. (361.2m-830kc), 7:30 p. m., Loew's Lexington orcan recital; 9, Loew's New York orchestra; 10, Roseland dance orchestra; 11:30, Silver Slipper orchestra.

WIP, Philadelphia, Pa. (508.2m-590kc), 6:05 p. m., Benjamin Franklin concert orchestra; 7, Uncle Wip's bedtime stories.

WJAR, Providence, R. I. (305.9m-980kc), 7:30 p. m., chamber musicale; 8-9, WEAF; 9, musicale; 10, tabloid musicale.

tabloid musicate, 3, 444.3m-660ke), 8 p. m., Imperial Imps; 8:30, Stadium Philharmonic concert; 10:30, Hotel Astor roof orchestra.
W.LIT., Philadelphia, Pa. (394.5m-760ke), 8:30 p. m., concert. Progress Paint company; 9, Monto artists; 10, Areadia cafe dance orchestra.
W.LWL, New York, N. Y. (288.3m-1040ke), 8:30 p. m., tearthiste Harmonizers; 8:45, studio program.
W.MCA, New York, N. Y. (340.7m-880ke), 6:30 p. m., Ernie Golden and his Hotel McAlpin orchestra: 7:30, Tappen's orchestra; 8, X-IT Hawatians; 8:30, Meister Homosteaders; 9, Mamraoneck night; 9:30, Woodmansten Inn orchestra; 10:20, Stauch's orchestra; 11, 1ack Denny's orchestra; 12, McAlpin entertainers.
WNYC, New York, N. Y. (326m-570ke), 6 p. m., plano selections.

selections.

WOO, Philadelphia, Pa. (508.2m-590ke), 7:30 p. in., Sylvania dance orchestra; 8. WEAF; 10. Fox theater program; 10:30. Ritz Carlion dance orchestra. WOR, Newark, N. J. (405.2m-740kc), 6:30 p. in., Hotel Shelton ensemble orchestra; 8. French Line program; 9. Arthur Pryor's band; 9:30, Monterey society orchestra; 10:45. Monterey concert quintet; 11:13, Ben Bernie Berkeley Cartaret grill.

#### Eastern Standard or Central Daylight

Saving Time Stations
KYW, Chicago, III. (535.4m-560ko), 7 p. m., musical
program; 9-10:30, classical concert; 10:30-12, Congress

program, 3-10-30, classical collect., 10-30-12, Congress carnival.

WBBM, Chicage, III. (225.4m-1330kc), 8-10 p. m., popular period; 12, Nutty club.

WEBH, Chicago, III. (370.2m-810kc), 7-8 p. m., Osborn's orchestra; Florence Behrend; Frank Greif, Frank Bordner; 9-10, Osborn's orchestra; Frank Bordner; Lawrence Salerno; 11-12:30, orchestra; Kay Ronayne, Florence Behrend.

WENR, Chicago, III. (265.3m-1130kc), 6-7 p. m., Rauland lyric trio; 8-10, All-American Pioneers; 12-2 a. m., midnite frolic.

WGES, Oak Park, III. (249.5m-1200kc), 5-7 p. m., Paradise plane; 8-9, Frank Sylvano, Louis Panico, Guyon's Paradise ballroom orchestra; Melody Girls; 11-1 a. m., Casey and Gervais; Ray Dean, Fay Dillon. Pat Ryan, Louis Panico, Guyon's Paradise ballroom orchestra.

orchestra.

WGHB, Clearwater, Fla. (265.3m-1130ke), 8:30-10 p. m.,
diversified program; Caroline Lee, "The Virginia Girl"
and her Spanish guitar; Bob Houts, barltone; Katherine Gauss, violinist; Mrs. Newell Turner, accompanist.

WGHP, Detroit, Mich. (270.1m-1110ke), 6 p. m., dinner
concert; 8-10, Little symphony orchestra; WGHP male
quartet; John Koneczny, tenor; Helen Fairchild, planist; 12-1 a. m., Gerald Marks' orchestra.

WGN Chicage III, (32.2m.2009k), 8:35-7 p. m., Black.

ist; 12-1 a. m., Gerald Marks' orchestra.

WGN, Chicago, III. (302.8m-990kc), 6:35-7 p. m., Blackstone string quintet; 9-10, grand opera selections; 10-10:10, Sam 'n' Henry; 10:10-10:20, studio music; 10:30-12:30 a. m., Pepper party.

WGY, Schenectady, N. Y. (379.5m-790kc), 6:30 p. m., Eastman theater program.

WHT, Chicago, III. (399.8m-750kc), 7:10 p. m., organ; 7:50, chapel; 8:30-10:13 (238m-1260kc), studio features; 11 (399.8m-750kc), Art Becker, planist; Al and Pat; 12 midnight, your hour league.

WIBO, Chicago, III. (225.4m-1330kc), 6-8 p. m., Dorothy Rae, soprano; Charles Champlin, baritone; Tevelyn Elilott, contrallo; Frank Greif, teno; trio, 10-12, Marie Tully, Wayne Myers, William Molnaire, Cramer and O'Grady; Elsie O'r; Lenore Friedman, Pearl Holtzman.

WJAZ, Chicago, III. (329.5m-910kc), 9-12 midnight, Chez Pierre studio program; Earl Hoffman's Chez Pierre orchestra; Alexander Nakutin vocal studio program; selections, piano studio of Edwin J. Gemmer; Chez Pierre Hawaiian quartet.

selections, plano studies of Edwin J. Geminer, Citez Pierre Hawaiian quartet.

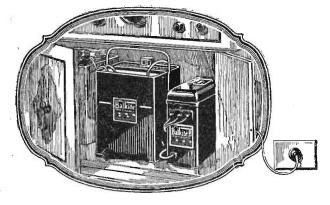
WJID, Mooseheart, III. (370.2m-810ko), 5:30-7 p. m., dinner concert; Jack Nelson; Howard Peterson, organist; symphony players, Victorians; 8-9, child artists, solos, bands; 10-11, Victorians, Isabel Defaut, R. Thomas; 12:30 a. m., Settin' Up hour.

WLIB, Chicago, III. (302.2m-990kc), 7-7:05 p. m., Million Sing; 7:15-7:30, dinner concert; 7:30-7:50, Patison Coates, baritone: Edward Barry, planist; 7:50, Aduld Sandy; 8-9, WEAF; Ambrose Larson, organist.

WLS, Chicago, III. (344.5m-870kc), 7:15 p. m. Rose Sherman, violinist; Marle Ludwig, harpist; 7:30, Ad Melgard, organist; 8:10, Cecil and Esther Ward, Hawaiian music; 8:30, Midwest quartet; 9, WLS troit, 10, Medicine show; 11, Tin Pan alley.

WMAQ, Chicago, III. (447.5m-670kc), 6 p. m., Chicago

WMAQ, Chicago, 11: (447.5m-670kc), 6 p. m., Chicago theater organ; 6:30, Hotel La Salle orchestra; 8:30, Whitney trio; 9, WMAQ players, chimes.



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#### Wednesday, July 14

WMSB. Chicago. 111. (249.9m-1200kc), 7-8 p. m., Trianon duo; 9-11. Trianon orchestra; artists. WOK, Chicago. 11. (271.3m-1380kc), 6-7 p. m., Tip-Top Inn string ensemble; 10-1:30 a. m., Tearney's Town club orchestra; Pershine Palace orchestra; Midway Gardens orchestra; Capitol theater program.
WODD, Grand Rapids, Mich. (241.8m-1240kc), 9 p. m., 16-Fingered Paul; Moke Marrin, Helen Neuman, Jim Forshey, Ruth Glaser, Pearl Knudson, Sid Goldman, Chuck Helwegor's Ramona Gardens orchestra; 19:30, Sør-u-time program; 10:05, Atwater Kent hour.
WOJ, Chicago, III. (447.5m-670kc), 7-8 p. m., Rainbo

WQ1, Chicago, III. (447.5m-670ke), 7-8 p. m., Rainbo Gardens orchestra; 10-2 a. m., Rainbo Gardens orchestra; Melodians; Joe Warner, character songs.

WRC, Washington, D. C. (468.5m-640ke), 5-6:20 p. m., U. S. Marine hand.

WRVA, Richmond, Va. (256.3m-1170ke), 9 p. m., Smithers Hawalian orchestra; 9:30, Robert J. Boadles. organist.

WSAI, Cincinnati, Ohio (325.9m-920kc), 6:45 p. m., chimes; 7, WEAF; 10, Congress Playing Card string

WSWS. Chicago. 111. (275.1m-1090ke). 6 p. n..
Josephinc Oliver, Torrace Gardens orchestra; 8. Ceril
and Esther Ward, Nol and Lucille Cook; Edward
Holt, Clinton Keithley; Terrace Gardens orchestra; 10.
Terrace Gardens quintet; Josephine Oliver, Lucille Darmond; Joe Coffec; Dave Darcie, ballads; Osborne
Sisters; 12, Witching hour.

WTAM. Cleveland, Ohio (389.4m-770kc), 6:15 p. m.. Hotel Cleveland orchestra; 7:30, WEAF; 8, Public Auditorium program.

Auditorium program.

WWJ. Detroit, Mich. (352.7m-850kc), 6 p. in., dinner concert; 7, WEAF; 7:30, danee orchestra; 8 danee program; 9, Detroit News orchestra.

Central Standard Time Stations FAB, Lincoln, Nebr. (340.7m-880ke), 5:30-6:30 p. m. dinner concert; 8:30-10:30, orchostra entertainment. KFH. Wichita, Kans. (267.7m-1120kc), 7 p. m., saxo phone octet; 7:30, Jimmie White and Clovis Miller. KFNF, Shenandoah, Iowa (263m-1140kc), 7 p. m., con-

KMA, Shenandoah, Iewa (252m-1190kc), 9-II p. m. popular musicale.

popular musicale.

KMOX, St. Louis, Mo. (280.2m-1070ke), 6:30 p. m., Jacquinot Jules; 7-8:30, Marguerite Schmidt, planist; 8:30-9:30, song cycle; 9:30-11:30, "Little Mexico." Houston, Texas (296.9m-1010kc), 7:30 p. m., ington Hall dance orchestra; 8:30, popular skyline

studio concert.

KSO. Clarinda, lowa (241.8m-1240kc), 8 p. m., North
Page Canaries; 8:20, mixed program, Vern Fisher.

KVOO, Bristow, Okla. (374.8m-800kc). 6-8 p. m., Radlo
trlo; Mascho, Cunningham, Mascho.

WADC, Akron. Ohio (258.5m-1160kc), 9 p. m., Roseland
dance orchestra.

dance orchestra.

WCOA, Pensacola, Fla. (222m-1350kc), 7 p. m., First
Preshylerian church choir; David Lloyd, tenor; Mrs.
Henry S. Brown, contratto; John D. Thomas, ptanist,
Churchill and Fillingim, Hawaiian melodies. WGBF, Evansville, Ind. (263m-1270kc), 7 p. m., dance musicale, A. L. Maxwell company; 8, auto tonr; 11, DX club.

WHAS, Louisville, Ky. (399.8m-750kc), 7:30-9 p. m. Jake Seligman and his Kentucky Night Owls. WHB, Kansas City, Mo. (365.6m-820kc), 7-8 p. m., Harry Lani and his uke.

WOAI, San Antonio, Texas (394.5m-760kc), 8:30 p. m., Army night program.

Army night program.

WOC, Davenport, Iowa (483.6m-620kc), 6-7:30 p. m., WEAP; 9:30-10:30, organ recital.

WSM, Nashville, Tenn. (282.8m-1060kc), 7 p. m., dinner concert; 8, Frances Helcerson, reader; Mrs. Blanche Bingham Campbell, mezzo-sorano; Elizabeth English, accompanist; 10, Mrs. Eva Thompson Jones, contralto; Eleanor Horn, planist.

WSMB, New Orleans, La. (319m-940kc), 8:30-10:30 p. m., Schilling's society serenaders, Marcus show.

Pacific Standard Time Stations

(FI. Los Anyeles, Calif. (467m-642ke), 7-7:30 p. m., popular program; 7:30-8, Nick Harrls detective story 8-9, program, California Petroleum corporation; 9-10, classic hour; 10-11, Chas. Beauchamp, tenor.

(FWB, Hellywood, Calif. (252m-1190ke), 7:30-8 p. m., program, Corduroy Tire stores; 8-9, program, A. V. Shotwell corporation; 9-10, program, Pacific Development company; 10-11, Warner Brothers frolic.

KGW, Portland, Ore. (481.5m-610ke), 6-7 p. m., dinner concert; 8-9, concert; 9-10, vocal and instrumental concert. KHJ, Los Angeles, Calif. (405.2m-740kc), 6:30-7:30 p. m., Uncle John and the children; 8-10, Tower studio presentation.

**NEWS BULLETINS** Daily Except Sunday Atlantic Eastern Central Mountain Pacific 10:45 a. m. 9:45 8:45 7:45 6:45 KDKA (309.1m-970kc).

fp. m, 12 n, 11 f0 9 CFCA (356.9m-840kc); KDKA (309.1m-970kc); KPRC (296.9m-1010kc).

5:30 4:30 3:30 2:30 1:30 WCAE (461.3m-650ke); WFAA (475.9m-630ke).

8 KOlL (278m-1080kc); WOC (483.6m-620kc). 8:15 7:15 6:15 5:15 4:15 WMAK (265.6m-1130kc); WOAI (394.5m-760kc).

Sunday

2 (491.5m-610ke); KNX (336.9m-890ke)

8:35

10:30

11:15

1:45

4 4:30

6

7:30

6:15

7:35

9:30

12:45

6:30

7:45

Pacific 5

5:15

II 10 8 WGN (302.8m-990kc). 11:35 10:35 9:35 WCCO (416.4m-720ke),

12 (1 (1 WOAI (394.5n1-760ke),

1:30 12:30 11:30 WCAE (461.3m-650kc).

2:15 1:15 12:15 WOAI (394.5m-760ke).

4:45 3:45 2:45 WHAS (399.8m-750ke).

7 6 5 CFCA (356.9m-840ke). 7:30 6:30 5:30 WPG (299.8m-1000ke).

9 8 7 WMCA (340.7m-880kc).

10 9 8 WSAI (325.9m-920kc). 10:30 9:30 8:30 KPO (428.3m-700kc).

11 10 9 KLX (508.2m-590ke). 11:45 10:45 9:45 WEBH (370.2m-810kc),

Atlantic Eastern Central 9 p. m. 8 7 WMAK (265.6m-1130kc).

9:15 8:15 7:15 WEBH (370.2m-810kc),

10 9 8 WPG (299.8m-1000kc). I a. m. 12 n. II KFWB (252m-1190kc).

5 WCX (516.9m-580kc).

#### CLASSICAL CONCERTS INDEX

Sunday Atlantic Eastern Central Mountain Pacific 7:20 p. m. 6:20 5:20 4:20 3:20 WCAE, WCAU, WEAF chain, WJAR, WJAZ, WWJ. 8:30 7:30 6:30 5:30 4:30 KOA. 9 8 7 7 6 WAMD, WBZ, WCAU, WHAR, WJAZ, WHT, WNYC, WQJ. 10 9 8 7 6 KFDM, KPRC, WBZ, WCBD, WCCO, WGY. 9:15 8:15 WEAF chain. 7:15 9:45 8:45 WEAF chain. 7:45 5:45 II 10 9 KFAB, KHJ, KNX, KTHS, KYW, WCCO, WFAA, WOC, WSOE. 12 m. 11 10 9 8 KHJ, KNX, KPO, KTHS, WKRC, WOC. 1 a. m. 12 m. 11 KHJ, KNX, WOC. 1 12 n 12 m 10° 2 KNX.

Monday

Atlantic Eastern Central Mountain Pacific 7 p. m. 6 KGO, WCX, WEAF, 5 WOK, WREO, WWJ. 7:30 6:30 5:30 4:30 3:30 KFAB.

8 7 6 5 4

KMA. WBBR, WCCO. WEAF, WEAR, WHAR, WHAD, WHT, WJR, WMBB, WOAW, WTAG. 9 8 7 6 KFNF, KSD, WBZ, WCX, WLW, WTIC. 5 9:30 8:30 7:30 KOA. 6:30 KOA.

10

9

8

7

6

WEAF chain, KFAB, KGO, KHJ, KPRC, WCCO, WBZ, WHAD, WHO, WLW, WORD, WOS, WDAF,

11

10

9

KMA, KOA, KPO, KPRC, KSD, KTHS, WAMD, WCCO, WHAD, WOAW, WSAI, WSUI.

11:15

10:15

9:15

8:15

7:15 11:15 KOA. 12 m. 11 10 9 KGW, KHJ, KMA, KSD, KTHS. 1 a. m. 12 m. KGW, WBAP. 9 10 кнј.

Tuesday

Atlantic Eastern Central Mountain Pacific 7 p. m. 6 5 4 3 3 WEZ, WCZ, WREO, WWJ. 7:30 6:30 5:30 4:30 3:30 KFAB. KFAB. 8 7 6 5 4
KGO. KMA, WEAF, WHAD, WJR, WMAQ, WOAW, WOK, WSAI, WTIC, WWJ. 8:30 7:30 6:30 5:30 4:30
WSAI, 9 8 7 6 5 8:30 WSAI. 9 8 7 6 5 KENF. KSD. KYW. WEZ. WCAE, WCX, WHT. WLS, chain. 930 8:30 7:30 6:30 5:40 KOA.

10
9
8
KFDM, KGO KHJ, KYW, WCAE, WCBD, WCCO, WEAF, WEEI, WGR, WHAS, WJAR, WLAW, WMAQ, WOC, WORD, WSAI, WTAG.

11
10
8
KFDM, KFDM, KFUO, KMA, KNX, KPRC, KTHS, WCAE, WCCO, WEAF, WEEI, WLW, WMCA, WOC, WSOE, WTAG.

12 m, 11
10
10
12 m, 12 m, 11
11
10
11 m, 12 m, 11
11
10
11 KFO, KYW, WHO, WMC.

Wednesday 8 7 6 5 4 KGO, WHAD, WJR, WMAQ, WOK, WTIC.

Atlantic Eastern Central Mountain Pacific 10 9 8 7 6 KGO, KPRC, KSD, KYW, WBZ, WCCO, WDAF, WEEI, WGR, WHAD, WHAS, WJAR, WMAQ, WOR, WOS, WORD. 11 10 8 8 7
KMA, KNX, KTHS, WAMD, WCCO, WEAF, WEEL WGR, WHAD, WJAR, WLS, WMAQ, WNYC, WOC, WSOE. 12 m. 11 10 9 KGO, KGW, KMA, KPO, KTHS, WCAE, WLS, WLW, WOC, WSAI. la.m. 12 m. 11 10 KGW, KPO, WHAD, WLW. Thursday

Atlantic Eastern Central Mountain Pacific 7 p. m. 6 5 4 WBZ, WCX, WIP, WREO, WWJ. 9 W WBBR, WBZ, WCAU, WCCO, WCX, WEZI, WGR, WHAR, WHT, WLS. WLW, WMBB, WOAW, WTAG, WTIC. 9.30 8.30 7.30 6.30 5.30 KOA. 0 0 0 7.30 6.30 7.30 KOA.

KOA.

10 9 8 7 6

KHJ, KLDS, WBAP, WCAE, WCAU, WCBD, WCCO, WEAF, WEEI, WGR, WHAR, WHAS, WJAZ, WNYC, WOC, WORD, WRC. WSAI, WSB, WTAG.

11 10 9 8 7 KNX, KPRC, KTHS, KYW, WAMD, WGR, WGY, WHAD, WJAZ, WMC, WOAW, WOC.

WSAL 12 m. 11 10 8 8 8 KGO, KPO, KTHS, WBAP, WJAZ, WKRC. 1 a.m., 12 m. 11 10 9 KGW, KPO, WHO, WKRC.

Friday Atlantic Eastern Central Mountain Pacific 7 p. m. 6 KGO, WCX, WMCA, WREO, WWJ. 7:30 6:30 5:30 4:30 KFAB. 7
KGO, WEBJ, WGY, WHAD, WJR, WMAQ, WOK, WOR, WQJ, WTIC.

8
KYW, WAHG, WAMD, WBJ, WCAU, WCX, WEBJ, WEEL, WHT, WLS, WWJ.
9330 8:30 7:30 6:30 5:30

KOA. 10 9 KOA. 6:30 7:30 6:30 5:30

KOA. 9 8 87 6

KFDM, KFNF, KGO, KHJ, KSD, KYW, WBAP, WBZ, WCAU, WDAF, WEEL, WHAD, WJAR, WMAQ, WSAI.

11 10 9 8 7

KFAB, KFDM, KOA, WCCO, WHAD, WMAQ, 12 m, 11 10 9 8

KPA, KNX, KPO. 12 m, 11 10 9

KPO.

Saturday

Atlantic Eastern Central Mountain Pacific 7 p. m. 6 4 3 3 3:30 

KFAB. 6:30 5:30 4:30 3:30 KFAB. 430 330 430 830 KFAB. 7 KFAB. 8 GO. KYW. WENR, WMAQ, WNYC, WOAW. WOK, WRC. 8 KFAC. KSD. 6 KYW. WBBR, WGN, WMBB, WNYC, WOAW, WQJ. 10 8 KFAC. KHJ. KYW. WHAS, WIP, WLW. WORD. WSAI. WSOE. 10 KNX. KYW. WEAF, WMAQ, WMC, WOAW, WOC. WORD. WOC. WORD. 12 m. 11 10 9 8 KGO.

10

12 m. KGO.

1 a. m. 12 m. 11 WOAW.

KFH, Wichita, Kansas, surprised fans recently by giving the opera "Martha." This production was so credible, plans are being made for a series of concerts. The artists in costume, above, are from left to right, Roy Campbell, tenor; Sybil Johnson, soprano; Sue Futton, contralto, and Lester Weatherwax, baritone. J. L. Fox, announcer, is standing in the center of the group.

#### New Schedule for Baseball Scores Announced by WJZ

NEW YORK.—The sports loving element in Station WJZ's audience are warned of a change which has occurred in the time of broadcasting of the final sport returns.

The station has found that it will be possible to give the final baseball returns to the fans half an hour earlier than has to the fans half an hour earlier than has been the practice during the early part of the season. In other words, WJZ will broadcast their sports final at 7 o'clock Eastern daylight time every day, including Sunday. The early sports broadcasts will be given at intervals every day except Sunday, starting at 4 o'clock, followed by a more complete return at 4:30. Then there will occur a lapse of one hour until there will occur a lapse of one hour until 5:30 when a third report, which should include complete returns on all baseball games played under Eastern daylight saving time. The fourth sports report which will be given at 6 p. m. each week day will include the complete returns on all major league games played under Eastern daylight saving and standard time.

light saving and standard time.

The final report at 7 o'clock will cover all baseball games and other major sporting events of the day. If by chance any major event has not been completed by 7 p. m. the returns on that event will be given a supplementary report as reon persons. given a supplementary report as soon as the report is received.

Radio Fish Stories, True Or Not So True, Published

MINNEAPOLIS.—A booklet entitled "Fish Lies and Liars" has just been published by the Minnesota division of the Izaak Walton league. It contains the prize fish stories entered in the Radio contest sponsored by the league during the Tues-day night talks from the Gold Medal sta-tion, WCCO. The fly leaf of the booklet carried the very pertinent question, "Does Fishing Make Men Liars or Do Only Liars Fish?"

Fish?"
The first letter published in the booklet is purported to come from one "Ananias," whose address is given as "Hades." Mr. Ananias admits that after listening to these fish stories told from WCCO, he is hopelessly outclassed and that he is ready to relinquish all claims and tearfully hand over his grown to the Irack Welten learn. over his crown to the Izaak Walton league champion.

The prize story was written by H. B. Haskell of White Bear, Minn. It is written in the Swedish dialect, and describes the capture of a blue catfish.

The booklet was compiled by Deane Rundlett and Miles Durkin, Minneapolis officials of the league.

#### MARKETS AND WEATHER

Daily Except Sunday

Atlantic Eastern Central Mountain 10:30 a.m. 9:30 8:30 7:30 WOAW (526m-570kc), Markets. 8:45 7:45 6:45 11 10 9 8 7.30
WILS (344.6m-870kc), Livestock, grain.
11 10 9 8 7
WLS (344.6m-870kc), Livestock, markets, fruit.
WOS (440.9m-680kc), Hogs.
11:30 10:30 9:30 8:30 7:30
WFAA (475.9m-630kc), Markets. 10:45 9:45 8:45 11:45 10:45 9:45 8:45 7:45
WCCO (416.4m-720kc), Markets.
WHO (526m-570kc), Opening grain quotations.
New York and Chicago stock exchange. Livestock, weather, rends.
WMC (199.7m-600kc), Weather, markets. 11 10 12 n. 11 0 9

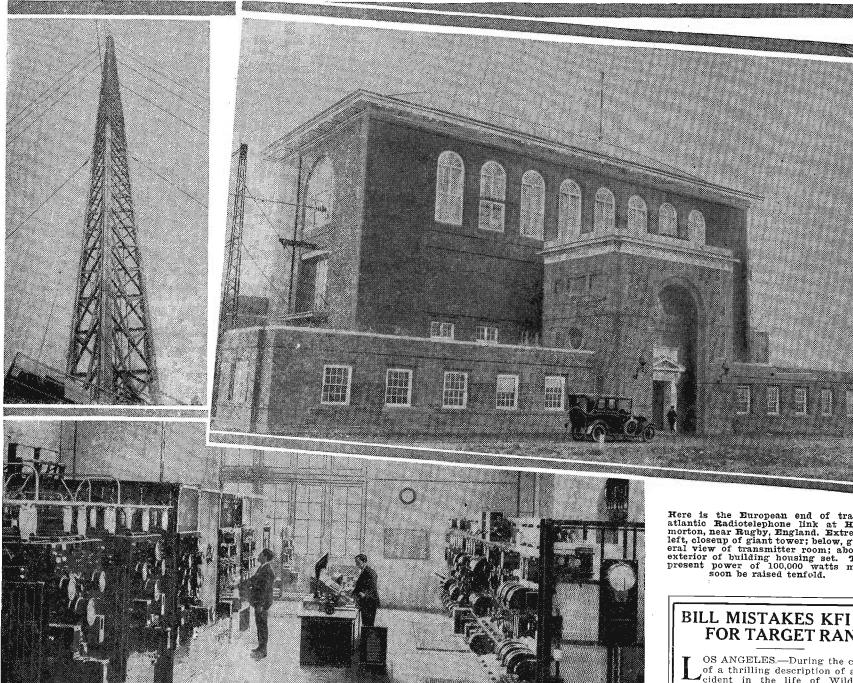
WOS (440.9m-680kc), Weather, hogs.
12:15p.m. 11:15 10:15 9:15

WTAG (268m-1120kc), Markets, woather.
12:30 11:30 10:30 9:30

WCCO (416.4m-720kc), Markets. 8:15 1 12 n. 11 10 9

KDKA (309.1m-970kc), Weather, livestock, grain, WBAP (475.9m-630kc), Weather, eatile, grain, WLS (344.6m-870kc), Poultry, datry, hoss, sheep, WOS (440.9m-680kc), Livestock, poultry, eggs. 1:30 12:30 11:30 10:30 9:30 1:30 12:30 11:30 10:30 9:30 WEAR (384.4m-780kc), Markets, weather. WFAA (475.9m-630kc), Markets.
2 1 12n, 11 10 WBAP (475.9m-630kc), Markets. WHO (526m-570kc), Livestock, receipts, Weather, roads. WOS (440.9m-680kc), Livestock, weather. 2:30 1:30 12:30 11:30 10:30 7 (374.8m-800kc), Livestock, weather. WOAW (526m-570kc), Markets, weather. 1:45 12:45 11:45 10:45 (322.4m-930kc), Weather, roads, livestock, 3 2 1 12 n. 11 WOC (483.6m-620kc), Weather, grain, livestock, WHO (526m-570ke), Livestock, Chicago and St. Louis closing cash market quotations, Chicago Board of Trade, N. Y. Stock exchange, WLS (344.6m-870ke), Livestock, grain, dairy, WLS (344.6m-870kc), Livestock, grain, dairy, fruit, vegetables.
WOS (440.9m-680kc), Livestock, markets, grain. WOS (440.9m-680kc), Livestock, markets, grain.
4:30 3:30 2:30 1:30 12:30
WFAA (475.9m-630kc), Markets.
4:50 3:50 2:50 1:50 12:50
WWJ (352.7m-850kc), Weather, markets.
5 4 2 1
WCCO (416.4m-720kc), Markets.
WFAA (475.9m-630kc), Markets.
9 8 7 6 5
KOA (322.4m-930kc), Sheep, markets, livestock, poultry.

# "HELLO AMERICA, EUROPE CALLING"



## Fifty Years After Telephone's Debut Words from It Wing Across Atlantic

By J. G. Forrest

EW YORK.—Fifty years to the day after the first patent was issued for the telephone—considered the most valuable patent ever issued by the United States patent office—two-way Radiotelephonic communication was established across the Atlantic ocean.

For four hours voices flew back and forth across the ocean, while newspaper men on both sides of the Atlantic marveled at the clearness with which they could hear each other. The speakers might have been a block away instead of 3,400 miles apart, for the audibility was better than that in an ordinary telephone communica-

The demonstration was the result of years of experimenting on the part of the American Telegraph and Telephone company, the Radio Corporation of America and the British General post office, to determine the feasibility of commercial service between this country and London. While experts have conversed before, this time that a definite of conversation between groups has been

#### Londoners Ask About Prohibition

The tests here took place in a large room on the second floor of the telephone company's building at 24 Walker street. The room was furnished with chairs; a pair of ear phones being placed at each chair. In one corner of the room a booth—similar to a telephone booth—was equipped with transmission from Rugby, England, was the apparatus used for ordinary telephonic communication. Here the visitors went when they spoke to the parties in London. While the person in the booth was talk-

ing, the others in the chairs could hear him carrying on the conversation. Several persons in London asked if it were possible to get liquor here. It was quite the popular joke. A young woman was in the booth when one such question was sked. She replied that it was impossible. Some of the men sitting in the chairs smiled in reply.

#### Route Conversation Took

In transmitting from America, the speech followed a different path from that coming from London. From this city, sound was sent over the telephone wires to the Radio transmitting station of the Radio Corporation at Rocky Point, L. I., a distance of seventy miles, and from there it was transmitted by Radio 3,300 miles to a receiving station of the British General post office at Wroughton, England From this point it was carried over telephone circuits a distance of about seventy miles to London. Coming from London to America, the

speech was carried over telephone wires a schedule distance of seventy miles to the Radio station at Rugby, England, and thence by Radio a distance of 2,900 miles to a re-ceiving station at Houlton, Me. From distance of 2,000 lines to a fe-ceiving station at Houlton, Me. From Houlton the speech was carried over telephone circuits a distance of 600 miles

#### 100,000 Watts Power Used

The transmission from Rocky Point was

nvolved, it is not possible at the present time to make any statements regarding the date when transatlantic Radio tele-phone service can be made available regularly to the public. About all that can be said is that the tests thus far carried out are encouraging. Complete service may

When that time arrives, a 'phone sub-scriber in San Francisco will be able to talk to anyone in Europe.

Here is the European end of transatlantic Radiotelephone link at Hillmorton, near Rugby, England. Extreme left, closenp of giant tower; below, general view of transmitter room; above, exterior of building housing set. The present power of 100,000 watts may soon be raised tenfold.

## FOR TARGET RANGE

OS ANGELES .- During the course of a thrilling description of an incident in the life of Wild Bill Hickock, at KFI here, Bill Hart, the screen's famous two-gun man, "fanned" twelve shots so fast it sounded like a tornado ripping a circus tent. To the best of its knowledge, KFI believes this to be the first time that an expert has made a shooting gallery out of a broadcasting studio.

For the benefit of bloopers a new terror has been introduced by the British post office. This is an automobile, fitted with a receiver and the latest type of direction finder, to be used for patrolling London areas and hunting down radiating

# elevocal Q

### Dependable and a Technical Triumph



RADIO TUBE that is nonmicrophonic — won't short. Sold in matched units; tested, balanced and plainly marked detector, radio frequency or audio frequency.

Ask your dealer for this new and better radio tube that costs no more. If he can't supply you with Televocals, send us his name and address on attached coupon.

DEALERS AND JOBBERS - WRITE US

Televoca1

Deale	rs Namo	
City	******************************	. State
Your	Name	

#### The Reader's View

(Continued from page 15)

I do not know what I will do—unless it will be to thank you."—CHIEF OF THE WDAF NIGHTHAWKS.

Anyway, Digest, the old Hired Hand is a blamed good announcer, and to prove I mean it, enclosed you will find my ballot for him. The Nighthawk Chief knows talent when he sees it, whether it be in the matter of singing, announcing, or polling votes, and assures the world that in another year he will know better

that in another year he will know better how to conduct his campaign.

Call the old Hawk a jealous bird if you want to, but let me tell you what the Hlred Hand did. The Kansas City Star, home of the Nighthawks, was recently advertised for sale, in compliance with the will of its founder, william Rockhill Nelson. This Tevan wind in to the want. Nelson. This Texan wired in to the managing editor his bid, offering for the newspaper a green top, his two "snotty" agates and a ball Babe Ruth gave to him, and adding the line (this is what got ine) "with or without the Nighthawks." I haven't gotten over that last crack yet.—H. D. F., Kansas City, Mo.

#### B SUBSTITUTE IS GOOD

(Continued from page 11)

screw. This screw is cut with a minute micrometer thread which affords extremely fine resistance graduations. There is no reason for removing the plunger carrying this thread, but if you do, then be very certain in replacing it that you start absolutely true in its housing. If you do not do this, you will wreck a wonderful resistance and you alone are

As complete assembly and operating instructions are included in the cartons containing the parts used in this eliminator, exhaustive construction data pears as superfluous. It's a real eliminator-better build it.

#### WGHP IS "AD" STATION

(Continued from page 6)

Even the purposeful business of advertising, cleverly done, is an art requiring fitness and sympathetic treatment. No one understands this truth better than Mr. Phelps who skillfully balances the scales to a hair's breadth so that the message is accepted as wholesome and not rejected as unpalatable. Listeners who tune in the WGHP programs are invariably pleased because the artistic part comes clean and untainted. At the conclusion of the program the names of the advertising clientele are announced for the first time as the sponsors of the entertainment. It is a matter of reciprocity to the public. Buyers have been good to the firms; the firms respond with a serenade, as it were.
"We make no secret of the fact that

"We make no secret of the fact that we are advertising agents," said a representative of the Phelps organization, "and, frankly, WGHP is an organ of our concern. But advertising by Radio requires an infinite appreciation of the listener's viewpoint. He must not be offended or more harm is done than good. To interlard the program numbers with bald advertising would be comparable to smearing a proud mountain neak with a smearing a proud mountain peak with a glaring sign. The effect would be ruinous; for the scenic effect would be fullous; for the scenic effect would be destroyed and the observer would bitterly resent the presumption of the owner of the sign. The beauty of an artistic rendition by Radio would be smudged and the listener would resent the cause of the smudging."

That the WGHP policy is a success seems to be confirmed by the fact that after six months it has expanded into larger quarters. There is a new broadcasting station just outside the suburb of Mt. Clemens and an enlarged studio in the new building erected as the permanent home of the organization at Jefferson

and Joseph Campau avenues.

This building stands apart unique as a business block. It is distinctly Italian in architectural design, an old Roman castle with courtyard, abounding shrubbery and a fountain. The whole effect is an appeal to the artistic and an inspiration to those who come there to broadcast.

William D. Lauries has been delegated as managing director and it was through his personal efforts that the station has been launched according to the ideas and ideals outlined by Mr. Phelps. Harry C. Browne, station director and announcer, comes from the theater where he established a name for himself over the footlights from one end of the country to the other. This talent and experience is being used to advantage in presenting programs according to the ethics and demands of good showmanship. He has devised a number of unique and note-worthy features which have established character and individuality with the WGHP station.

T. Stanley Perry, musical director, has also contributed largely to the distinction of this new station. His voice was a

favorite with Radio listeners throughout the Detroit area long before the estab-lishment of WGHP. One of the rigid demands of this station has been that its music must be interpreted with authority and understanding so that the most fastidious listeners might consider the technique above reproach. The Little Symphony orchestra, under the leadership of Dirk Van Emmerik, represents a selection of artists from the Detroit Symphony orchestra. phony orchestra. All are soloists on their respective instruments. Twice each week they present a two hour program of the favorite classics. Two dance bands provide the daily menu of modern music. One is the Gerald Marks Hotel Tuller orchestra and the other, the Skylark Dance band. Among the favorite feature numbers is the Motortown trio, Bert Hall, Frank Turner and Harry Reid. Sometimes they are joined by Miss Gladys Sander-

son and her ukulele.

Madame Gizi Szanto, concert pianist, is one of the special soloists heard each week with the Little Symphony orchesweek with the Little Symphony orchestra. Included in the operatic group are Miss Leona E. Mitchell, soprano; Albertine Schmittke, soprano; Mildred Carner Johnson, contralto; Mona Perkins, contralto; T. Stanley Perry and Richard Rolph, tenors; William A. Kerr and John L. Dickinson, baritones, and Tom Perry, juvenile. The WGHP Frolickers are Harry C. Browne, Mr. and Mrs. Eddie McGrath, "Heck" and "Mack".

The dinner hour and evening program artists are: Marvelle Payette, Winifred

artists are: Marvelle Payette, Winifred Huntoon, Ann Patterson, Vivian Downey, Fredericka Sims Hull, sopranos; Charles Hargreaves and C. Herbert Peterson, tenors; Hubert Haussler, Chas. Hutton, Chas. Coates, baritones; Wm. F. Bartels, basso. The studio accompanists and pianists are Wayne Frary, Loraine Lancey, Helen Fairchild and J. Franz Miller. The WGHP entertainers who enact the playlets are drawn from the light operation. lets are drawn from the light opera group. The WGHP male quartet is composed of T. Stanley Perry, John Koneczny, tenors; Archibald C. Jackson, baritone; O. Henry Albert, basso. On the light quartet is John occasion of the opening of the new studio, DeWolf Hopper, Charles Hart, Lieut. Gitz-Rice, Frank Moulan, Lilliebelle Barton, Adele Marcus and Mary C. Browne were brought from New York. They presented a program especially arranged in honor of the event.

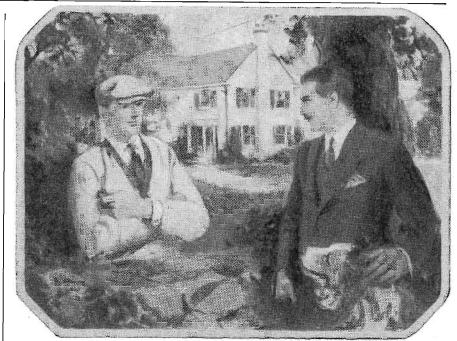
Such is the standard set by this new broadcasting station in Detroit. Mail returns have indicated that there is a rapidly growing audience of listeners not only in the Detroit area but throughout the United States. Automobiles doubtless will continue to bear aloft Detroit's fame for many years to come but they will have to share part of the honors with Radio—the hum of the antenna a pleasing obbligato to the song of the motors.

#### To Show Historic Receivers

NEW YORK.—Radio equipment used in the Byrd and Wilkins airplane expeditions to the frozen North will be displayed at Grand Central Palace, New York city, on September 10, when the Radio show opens

WJZ's massive structural steel antenna towers are insulated at the base to prevent them from absorbing even a small amount of the energy radiated by the antenna.





"We give our sets about the same amount of use, but your 'B' batteries always last longer than mine. What's your secret?"

"WHY, there's really no deep, dark secret about it. It's simply knowing what are the right size batteries to buy for your set."

"Yes, but what do you mean

by right size?"
"The right size depends on the number of tubes in your set. The more tubes you have, the bigger the 'B' battery you need to give you long, economical service. Just follow the rules laid down by Eveready and you can't make a mistake." These are the rules and the results:

On all but single tube sets—Connect a "C" hattery\*. The length of service given below is based on its use.

On 1 to 3 tubes—Use Eveready No. 772. Listening in on the average of 2 hours daily, it will last a year or more. On 4 or more tubes-

Use the Heavy-Duty"B" Batteries, either No. 770 or the even longer-lived

\*Note: A "C" battery greatly increases the life of your "B" batteries and gives a quality of reception unobtainable without it. Radio sets may easily be changed by any competent radio service man to permit the use of a "C" battery.

Eveready Layerbilt No. 486. Used on the average of 2 hours daily, these will last 8 months or longer.

The above rules will give you the maximum "B" battery life and economy. Of course, if you listen in more than 2 hours a day, your "B" batteries will not last quite so long, and if you listen less they will last longer. Ever-eady "B" Batteries give the pure, steady, noiseless current that is absolutely essential if you prize pure tone.

Send for booklet, "Choosing and Using the Right Radio Batteries," sent free on request. There is an Eveready dealer nearby.

Manufactured and guaranteed by NATIONAL CARBON Co., Inc. New York San Francisco Canadian National Carbon Co., Limited Toronto, Ontario

Tuesday night means Eveready Hour —8 P.M., Eastern Standard Time, through the following stations: WEAF-New York WJAR-Providence WEEI-Boston WSAI-Cincinnati WTAM-Cleveland

WIAN-Cleveland
WWJ-Detroit
WGN-Chicago
WOC-Davenport
WCCO { Minneapolis
St. Paul WTAG-Worcester WFI-Philadelphia WFI-Fnace... WGR-Buffalo WCAE-Pittsburgh WCCO KSD-St, Louis



## **NEW WEBH MUSIC IS** PLEASANT SURPRISE

BEST MUSICIANS ENGAGED TO FILL VOID OF ORIOLE

Famous Russo-Fiorito Orchestra Leaves for Aragon Ballroom and WIBO-On Air August 1

CHICAGO.—The new Edgewater Beach hotel orchestra, every member of which is a master musician, is the pleasant sur-prise which greeted WEBH listeners re-

prise which greeted WEEH listeners recently in place of the famous Russo-Fiorito Oriole orchestra, whose strains have made the "Voice of the Great Lakes" one of the most popular stations on the air.

The Oriole left WEBH and the hotel to take a long time contract with the new Andrew Karzas "Aragon" ballroom, a gigantic dance palace which is to open here August 1. At that time the Oriole orchestra will again be on the air broadcasting through WIBO, the Russo-Fiorito Orchestras and Nelson Brothers station.

Orchestras and Nelson Brothers station.

The void was expected and for months past the country has been scoured to find the best musicians in the world to replace the famous Oriole. No money was spared in the attempt, and it is now claimed that the new musical organization of the Edgewater Beach hotel is paid higher than any other orchestral body in the world.

"We are proud to introduce the new Edgewater Beach hotel orchestra to our listeners," announced Robert D. Boniel, WEBH director. "We will leave the audience to judge for itself."

#### Introducing Its Members

Members of the new orchestra are as follows:

Joseph Gallichio, director, for six years concertmaster for Balaban & Katz theaters, conceded to be one of the greatest violinists in the country. For five years he was with the Tip-Top Inn sextet, two years with the Minneapolis Symphony or-chestra and two seasons with Chicago

grand opera.

Roy Bargy, pianist, recently returned from an extended tour abroad with Isham Jones' orchestra; organized the famous Benson Victor Recording orchestra; a favorite of two continents when at the Kit Kat club in London and internationally known also as a Brunswick recording art-

Frank Siegrist, trumpet, introduced the stage form of entertainment for a jazz band, hails from the Pacific coast, where, band, halls from the Pacinic coast, where, prior to the war, he was an orchestra leader. He is the only man in the world to successfully play above high "C," a range higher than any human voice.

Frank Quartell, trumpet, late of Isham Jones orchestra, conductor of own orchestra at the other parts cafe. Okeh record atternate that the other parts cafe.

tra at Montmarte cafe, Okeh record artist, with Paul Biese six months and the Oriole orchestra one and one-half years.

Charles Wagner, drum and tympany, late star of Al Short's orchestra at the

Capitol theater. Ed Vito, harpist, will play first harp for the Cleveland Symphony orchestra next season, has been with the Chicago theater orchestra since the opening of that play-

Al Armer, string bass, tuba and bass sax,

#### AT-LAN-TAH GAWJUH LOOKS OVER RECORD



Here's "Colonel" Lambdin Kay, WSB's famous director and announcer, examining a phonograph record of his voice made in New York by Francis R. Hoyt, inventor. Mr. Hoyt just tuned in WSB one night, waited till Mr. Kay was announcing, and turned on his Radio-phonograph recorder. Result—"Colonel" Kay heard himself talking to himself when he visited New York.

during concerts in Aeolian and Carnegie

halls, New York.

Louis Sarli, violinist, eleven seasons with Minneapolis Symphony orchestra, two with the St. Louis Symphony orchestra and once with Victor Herbert.

C. R. Heidke, saxophone, formerly with Isham Jones, Roy Bargy and Arnold Johnson orchestras; a favorite in New York.

Emerson J. Both, saxophone and clari

net, formerly of the Chicago and Tivoli theater orchestras and of the Arnold Johnson and Charley Straight orchestras. David Bennett, sax, clarinet, flute and

piano accordion, a recording artist with Fred Hamm and Art Kahn orchestras and former member of Gus Edwards' Terrace Garden orchestra.

L. D'Amico, accordion, vaudeville star member of Rainbo Gardens orchestra up to joining Edgewater Beach hotel orchestra

Bernard Sigert, cellist, first cello at Riviera, four seasons with Philadelphia Symphony orchestra and engaged for next season by the Chicago Symphony orches-

Orville Rennie, vocalist, lately in the 'Student Prince' singing leading role. Harry Perkins, viola, with Chicago Symphony orchestra for five years.

Charles Barbera, trombone, just closed season with famous Brown orchestra at Louisville, Ky,

E. Robertson, first trombone, late of the Gus Edwards orchestra, and of Olson's orchestra, recording artists with great New York reputation.

#### WGBF Erects New Antenna

EVANSVILLE, Ind.—The Finke Furniture company station here, WGBF, has reformer principal bass in Akron Symphony orchestra under Edouard Perrigo, and later with Victor Herbert's orchestra, member of Paul Whiteman's orchestra pected. The wave length is 236.1 meters.

#### SHORT WAVES

By Marcella-

(Continued from page 14)

"O'Flannigan and O'Hara," otherwise Jerry Sullivan, WQJ's director, and Harry Geise, his assistant, are doing their turn again since Harry is back at the Calumet-Rainbo Gardens station. Listen in for new "Howdy, Hello" song. Same old Jerry and Harry.

"Is Ruth Etting of WLS single, and if not why?" asks Eugene. No, because she was too pretty and nice to stay single. I'll ask Ruth (if she ever gets single soon again) how she would like to gamble her blue-eyed, blonde little 112-pound self on a "fat and bald-headed man."

Lew Farris, "The Eiffel Tower of Radio," is a roaming balladist traveling for the Ted Brown Music company of Chicago. He is liable to turn up most anywhere, a facility permitted by the long strides of his nearly 7 feet of anatomy. Will give a more intimate sketch of this young giant later, "Louella," just as soon as I can put my finger on him.

No, "A. F. C.," Travis Hale and Juanita Collins are not WDAF announcers. Travis hale is heard frequently with his banjo on the Nighthawks program. He is a popular WDAF entertainer and is noted particularly for his rendition of "A Cowboy's Lament." Juanita Collins is really boy's Lament." Juanita Collins is really Mrs. H. Dean Fitzer, wife of the announcer, who sings and plays with him in popular jingles from WDAF. The announcement always is, "Juanita Collins and the Announcer." And next issue, my friends, I shall tell you all about H. Dean Pittan himself. Fitzer himself.

Another dandy collection of "inside stuff" to appear next issue is that regarding the entertaining Ernest Rogers of WSB, alias "Willie the Weeper," Old King Tut, the Radio Nut." Y WSB. alias You see I have covered so much space this time that I am afraid I will wear out my wel-come. I said recently that Ernest was single and "looking around." His six-months bride almost took a train from Atlanta to make me retract this error.

Ernie, Willie or King Tut—take your choice—tells me that Warner's Seven Aces are now trumping, I mean trumpet—do my best to answer here. MARCELLA.

#### ARNOUX TOPS CUP RACE

(Continued from page 2)

order since last publication, and but few votes have been added. Miss Lillian Shaw, of CKY, who has maintained the lead since the start, is now convalescing

from an operation for appendicitis, a note from Winnipeg informs. The standing is:

1. Lillian Shaw, CKY (1)........1,676

2. Bert Hooper, CKCK (2).........682

3. H. C. Fricker, CKCL (3).......653

4. Geo. A. Wright, CNRY (4)......396

5. C. W. Darling, CFCF (5).........104

Lunovasance of Saving Ballots

Importance of Saving Ballots
As a reward for saving consecutively numbered ballots and casting them at one time for the same candidate, a bonus vote, with size depending on the number in consecutive order, is credited to that candidate.

Each of these ballots will count for one vote when sent in separately. You can hold these ballots until you have four that are consecutively numbered and when they are sent in, a bonus of eight votes or total of twelve will be granted.

The larger number of consecutive ballots submitted, the greater is the bonus allowed. Eight consecutive ballots receive a bonus of twenty votes. Twelve consecutive ballots receive a bonus of thirty votes, or a total of forty-two votes. For a complete series of ballots, including one from each issue from March 27 to September 1, a bonus of fifty votes will be allowed.

#### Pikes Peak to Denver Link First in Rocky Radio Chain

DENVER.—The first link in a Rocky Mountain broadcasting chain was recently formed by the hooking up by land wire of stations KLZ, (500 watts, 266 meters) Reynolds Radio Co., Inc., at the Shirley-Savoy hotel, Denver, and KFXF, (500 watts, 250 meters) the Pikes Peak station at Colorado Springs.

While only seventy-five miles apart, neither station has been heard consistently in the other city due to some peculiar geographic condition.

ing regularly at the Peabody hotel of Memphis, Tenn.



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By special arrangement, Radio Digest is able to offer its readers a great opportunity to secure fine photogravures of their favorite Radio stars at practically no cost. Radio Fans will be able now, by this very special offer, to have pictures of their favorite artists and announcers before them when they listen in.

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- Select Your Favorites from

  1 Wendell Hall, king of ukulele ditties
  2 Graham McNamee, 1925 Gold Cup announcer
  3 Jack Little, popular wandering balladist
  4 Billy B. Van, the Sunshine Man
  5 Coon-Sanders' Original "Nighthawks'"
  6 George Hay, 1923 Gold Cup announcer
  8 Ford and Glenn, Lullaby Boys of WLS
  9 "Roxy" Rothafel of WEAF chain fame
  10 The Hired Hand, famous "Substitute Announcer" of WBAP
  12 Bob Emery, Big Borther of WEEI
  13 "Bill" W. G. Hay, ex-EFKX, now of WLIB
  14 Happiness Boys, jovial singers of WEAF
  15 Lambdin Kay, "Little Colonel" of WSB
  16 Lee Filzpatrick, "Merry Old Chief." WJR
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30 Jean Sargent, the original, now at WHT
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This coupon entitles the holder to one photogravure selected from the Radio Digest Gallery of Radio Stars when accompanied by ten cents to pay the cost of mailing and postage. Three consecutively numbered coupons entitle the holder to three photogravures when accompanied by 25 cents. Remittance must accompany the coupon. Cash at your risk. Add 5 cents to personal checks for exchange.

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#### "BIG RABBIT"

(Continued from page 9)

nosis; he had played a part until he came to think it real. I feared his vengeance. Keenly sensitive, like most half-breeds, he hated those who were his superiors.

AJOR Gaskill made arrangements for the special car when Trimble told him they were suspected, in it. Trimble dared not act and was in it. Trimble dared not act until he was beyond the reach of help. When the trail led to Florida I suspected the source of his wealth was stolen timber. A thousand negroes, scattered over miles of timber land, each stealing a few logs, could escape detection. It was no wonder Danforth could not find the thief."

Borton stopped to light the cigar and

I stumbled upon the trail by overhearing two negroes talking on the boat of a big meeting. There was no use to try to employ force. A regiment could not have captured them in the swamps. Trimble, I learned was playing the part of Big Rabbit, cunningly combining super-stition and business. The rabbit was the stition and business. The rabbit was the figure of power. But Trimble overlooked a bet. There is a zootheistic being higher than the rabbit—the terrapin. Among many of the African tribes, es-Guinea coast tribes, the turtle is the judge, the law giver, and is set above the other zootheistic gods. I determined to play terrapin and checkmate Trimble's rabbit, relying upon surprising him and rabbit, relying upon surprising him and then placing him in a position where he dared not defy me openly. I went to Jacksonville, had a big turtle shell built of canvas and wires—The rest you know." "I apologize, Dick," I said. "But don't blame me for doubting. No one would have believed unless he knew negroes." "There is one thing I'd like to know."

"There is one thing I'd like to know," said Danforth, "how did you ever manage to escape from the stage?"

Borton grinned happily.
"Easy, he said. "I made a lot of signs "Easy, he said. "I made a lot of signs, told them I would have to think for a moment, pulled my head into the shell, then crawled out of the shell, crept to the door and dropped down to the ground They waited five minutes for me to start again—by that time I was in the woods. You should have heard them yell when they learned the turtle was empty.

THERE were legal formalities to be complied with, arrangements to be made for the inquest. The sheriff and coroner dispensed with many formalities—and permitted us to go. I did not see Miss Tonneson until the following morning.

Borton and Danforth had engaged a yacht to convey our party to Jacksonville, and we left Palatka early.

The little white yacht with her varnished cabin, her shining brass work, her pennant and flags flying in the soft breeze curved away from the dock, and sailed down the lotus hemmed channel of the wide river. The sun was shining from a cloudless sky. Orange blossoms, jasmine and magnolia scented the sweet, soft air. The river rippled and danced to the music

I huddled myself in the cabin, taking

refuge behind a Jacksonville paper. The sunshine offended my eyes. scent of orange blossoms was an insult to my sense of smell. The soft lapping of little waves against the vessel wearied I was enjoying a man sized grouch against fate and the world in general. The murmur of conversation from the forward deck where Miss Tonneson, Borton and Danforth were seated did not help dispel my gloom.

Presently the door opened and Borton, grinning as usual, stuck his head in.

"Miss Tonneson ordered all hands forward: you're not an exception," he said.

"Sunlight makes my head ache," I

'Balky as a mule, he confessed he was,

Borton called back to those on deck.

"Bray a couple of times for us," he taunted grinning at me.

I swore under my breath and tried to

continue reading. 'Not loud enough," he said. outside couldn't hear you. Bray again.'
I swore some more, but arose and went to join them. Borton would have kept it up all the way to Jacksonville if I had not. It always is easier to do what he wants done.

E FOUR sat on the little forward deck, Miss Tonneson in a steamer chair wrapped in a rug. Borton did most of the talking. Finally as the yacht was passing Doctors Inlet he stood

up and stretched his big frame.
"Come on Dan," he said, "let's tramp
a bit. I'm getting stiff. Need exercise. An hour in that turtle shell cramped my muscles.'

I tried to signal him, but we were left alone. Roberta looked at me seriously but her eyes were smiling and a little mysty. I shifted uneasily,

"I'm afraid Mr Borton is right—about—about your mulishness," she said.

do not quite understand.'

She made a little gurgling sound, her yes danced and she broke into a nervous

Excuse me," she said, still laughing, "but you are SO funny when you try to be dignified. I'm going to have a fine time

'I'm afraid there will not be much opportunity for indulging in that amuse-ment," I replied, trying to smile. "I shall go through to New York—and I fear we will not meet often."

"Oh!" she exclaimed, her eyes widening s if in consternation "I—we—Aren't—?" She hesitated, and flushed as if con-used. For an instant she said nothing, then she spoke naturally; or unnaturally naturally as only she can do.

'What was it you were saying about 'now that you are poor' yesterday when the telegram came?" she asked.

She dropped her eyes demurely and looked innocent. I stared at her.

Her eyes refused to meet mine and she seemed to be gazing guilelessly at the

"Roberta Lee Tonneson," I demanded "Roberta Lee Tonneson," I demanded sternly, "are you deliberately trying to goad me into proposing to you—when you know you are rich—and that I'm a poor dub of a reporter—"

"Well," she said, her voice shaking, "if a man is such a big goose, he will not tall a girl hember he loves her that her

tell a girl he—he—he loves her just be-cause of some hateful money—"

"Oh Wen, don't! Not now. The man at e wheel may see—"

But I did. Just then Borton came round the corner of the wheel house talking to Danforth.

"Yet his ears do not show any signs of getting longer," he said as if to his companion. "In fact he sometimes shows signs of intelligence."

He grinned his most maddening grin as he swung the little detective about face and marched him back along the deck.

Just for that I had a notion not to ask

him to be our best man this fall were it not for the fact Bob (that is Miss Tonneson) insists upon it, and her word is law. He'll be grinning when we are at he altar.

THE END

#### FLOATING WRMU

(Continued from page 4)

Massachusetts: the triangular event from Sheepshead Bay Yacht club-Jones Inlet-Scotland Light Ship, and various events near Philadelphia in con-junction with the Sesquicentennial cele-

cover these feature events, the new MU-1, with Station WRMU built for greater efficiency and range, will be ready o serve the aquatic sport loving broadcast listeners.

"The marine broadcasting station WRMU was the first and is the only broadcasting proadcast transmitter of this type in the country at the present time. It has done nuch to delight the sport world by cover-ing events which heretofore it has been

impossible to broadcast.

"The broadcasting apparatus for this work has been carefully designed incorporating features not found in the equipment on last year's yacht and from the experience obtained it has made possible the construction of equipment many imes more efficient and powerful. Rugged features so necessary for marine installation, plus refinements for high quality broadcast transmission, have been in-corporated. The transmitter has been de-signed with greater power output than that which ordinarily will be used to in-sure reliable transmission over good distances under extremely adverse conditions."

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45 volts, \$5.25; 90 volts, \$10.00; 112½ volts, \$12.50; 135 volts, \$14.75; 157½ volts, \$16.80. Truly the biggest buy today. Easily charged on any current including 32-volt systems. Any special detector plate voltage had. Tested and approved by leading authorities such as Popular Radio laboratories. Over 3 years sold on a non-red tape 30-day tral offer with complete refund if not thoroughly satisfied. Further guaranteed 2 years. Knockdown kits at great savings. Complete "Hawley" "B" battery charger, \$2.75. Sampel cell, 35c. Order direct—send no money—simply pay the expressman cost on delivery. Or write for my free literature, testimonials and guarantee. Same Day shipments. B. Hawley Smith, 817 Washington Ave., Danbury, Conn.

"I beg your pardon," I said stiffly. "I | magic procession, one more phase in the attainment of speed in gathering and conveying news to a waiting world. The pageant moves on. What will the next step show? Out of the limbo of mystic future it is being moulded. Fame and Fortune hold a crown.

#### OLD JUDGE LIKES WSM

(Continued from page 5)

sleep and drinking black coffee to keep him awake. His voice range with pathos as he told of the afflictions the tornado had wrought in the homes of hundreds of families and at the close of the Radio relief drive, WLS had raised more than

quarter of a million dollars. But a few months ago, Hay's longing for the Southland caused him to return to Tennessee and he accepted the position of director and chief announcer of WSM. Although Hay is known everywhere as "The Solemn Old Judge," because of the quaint dialect stories he wrote for the Commercial Appeal under that name, he really a most personable young man, with clear-cut features and eyes that show he is thinking about people, as well as Radio and that he never fails to find a ot of fun in everything that anyone else

Hay's popularity is not due alone to his originality and human appeal. His favororiginality and human appeal. His favorite slogan, "Broadcast personality plus a smile, if you would win your way into the hearts of a Radio audience," tells the rest of the story. It helped him win the first annual Radio Digest cup award as the most popular announcer in 1924, presented to him at the first Radio World's Fair in Medison, Source Corden, New York city. Madison Square Garden, New York city, and it is what makes him popular with the Radio fans now who listen in on WSM. Hay has his third whistle—a steamboat "tooter" which he calls "Old Hickory" for Andrew Jackson and Nashville

Our next WSM contribution is by Mr. Hay, himself. You can fairly hear his voice passing on these observations about his associate director, Mr. Jack Keefe, especially famed as a sports announcer but no relation to the big leaguer by the same name made famous by Ring Lardner.

Judge Hay Introducing Jack Keefe

Jack Keefe, one of Nashville's most popular young men, combines with his daily practice of the ancient profession of law the gentle art of the newest profession, that of Radio announcing and en-

tertaining.
Mr. Keefe has made thousands of friends since he began his career at WSM, the station owned and operated by the National Life and Accident Insurance company of Nashville, Tennessee. He is one of the most versatile men in the Radio game today. Here is a little background of his career:

After graduating from Harvard university, he held a chamber of commerce position in the West. His ability to make friends proved a great asset to him. Even in the early days of his career, the call of the stage soon caused him to enter that profession, in which he was engaged for many years. Mr. Keefe also served as a

chemist before taking up the study of law.

His handling of the microphone during the football season was very unusual. His running fire descriptions of the Van-derbilt games brought much favorable nention from the Radio fans of the South.

Very often when he is not announcing,

he steps up to the piano and sings a group (Continued on page 29)

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#### OLD JUDGE LIKES WSM

(Continued from page 28) of character songs which prove to be one of the big drawing cards of the WSM

#### Judge Hay Presenting Uncle Dave

"Whoop 'em up Cindy, and cook that possum brown, 'cause Old Dan Tucker is comin' to the log cabin in the lane, and we'll bile the cabbage down."

Uncle Dave Macon has been pickin' the banjo for nearly a half-century. His programs in the studio of WSM, the National Life and Accident Insurance company's station, Nashville, Tennessee, include the old-time songs of the South, still very much beloved by the older generation, and interesting to the younger people who listen to the barn dance programs on Saturday night. Uncle Dave is one of the many picturesque characters of the Tennessee hills.

From his farm every fall after the harvest, goes Uncle Dave with three banjos tucked under his arm, his wide-brimmed, tucked under his arm, his wide-brimmed, soft, felt hat, chin whiskers and side burns, the veritable wandering minstrel. He sings and plays at the cross-roads and in the theaters. If he has an enemy in the world he doesn't know it. At any rate, he radiates sunshine and good will. Uncle Dave has been a big feature of the programs broadcast by WSM during the past winter.

Born on a farm in Warren County, Tennessee, in 1870, he learned the tunes of the darkies. When he was thirteen his parents moved to Nashville where his father bought the old Broadway hotel, famous during the Civil war, which catered to troupers and theatrical folk. Added to his native ability to sing and plunk the banjo, came training from wandering min-

strels.

In 1884, Sam Jones held a tent meeting at Eighth and Broadway; then came Sam McFlynn with a ten-cent circus. There were twenty-eight men and four women in the company and they all put up at the Broadway hotel. In the company was one Joel Davidson. Uncle Dave, was then referred to as Davie was who was then referred to as Davie, was immediately struck with the idea of the minstrelsy. His mother bought him a banjo and he started out. While his avocation has been entertainment, he has made good as a farmer and operates a model place in Rutherford County, Tennessee. Being a born minstrel, he cannot refrain from singing and playing

whenever the spirit moves him. He has to be rude. I've enjoyed the lunch imappeared in some of the large theaters of the South and lately has been doing a out." She extended her hand. "Good great deal of broadcasting.

#### **\$**: "Mr. Tom Parkes-"

"Let's put the old pile of iron on the air and let her ride," says Tom Parkes as he refills his pipe at 7 o'clock every evening in the station of WSM, the National Life and Accident Insurance company's station, Nashville, Tennessee.

Tom has had wide experience in Radio and has brought that training to WSM where he serves as chief engineer. He has been around the world many times as a Radio operator on merchant ships. He is thoroughly familiar with Radio as it has developed today. Through his efforts and constant care WSM has remained on the air without a single break for the first seven months in its history.

#### "SURE FIRE STUFF"

(Continued from page 8)

OR such an expert dancer, Sheila Shambaugh seemed in many ways quite foreign to the stage. Few words from the vaudeville dictionary came readily to her tongue, and there was an innate refinement about her that spoke subtly of other things.

Johnny Clavering was in no sense a woman's man. He had followed a set policy to "let 'em alone." Matrimonial entanglements had wrecked too many professional careers, he knew, and long since he had made up his mind to steer clear of the shoals. A good pal—yes, he'd be that to any nice girl; but when cupid began to hover around Johnny sought the

first opportunity to make his get-away.

But in all his career he had never met a girl just like Sheila Shambaugh. A desultory conversation finally resolved itself into but an occasional remark, and before the end of the meal silence reigned supreme.

supreme.

Johnny paid the check and helped Sheila on with her wrap. "Now I'll call a taxi and take you to your hotel." "No—please!" she protested. "No trouble; plenty of time; the night is young."

"It's impossible—that is—I—I am staying but a short distance away—and I'll enjoy the walk."

"Then I'll walk with you" he persisted.

"Then I'll walk with you," he persisted as they went outside.

"Mr. Clavering, please do not force me

mensely. It was nice of you to bring me out." She extended her hand. "Good night."

Johnny watched her trim figure until it turned the corner a half-block down the street. Then he snorted:

"They're all alike. Peeved at you if you please 'em; peeved at you if you don't. That's the so-called gentler sex in a nutshell. Well, give me peace—peace at any price!"

After that Sheila avoided Johnny except when they chanced to meet back stage. Once or twice he noticed little things about her act that could be imthings about her act that could be improved, and stopped long enough to offer suggestions. She yielded to these overtures, was apparently agreeable and thankful—but the note of frigidity always intruded itself, if ever so slightly.

NE evening Johnny left the theater at the same time as the Great Ganton, magician, whose act followed Johnny's and closed the bill. "I notice you've taken quite an interest in the Shambaugh kid," he said as they walked up the street. bill. they walked up the street.

"Oh, I've made a suggestion or two," Johnny returned, not anxious to pursue

the subject.

"I'm glad of that. I guess she needs all the help she can get."

"What do you mean, Ganton?"
The magician raised his eyebrows in mild surprise. "Oh, I thought you knew. She's supporting an invalid husband—at

"Is that right? No; I hadn't heard."

"The story is that they were doing a double on the small time. Called them-

double on the small time. Called themselves the Dancing Shambaughs. He was an acrobatic stepper and a clever one; lots of new stuff. They were grooming the act for the big time, when Bobby came out of an automobile crash with a broken hip. Been laid up ever since, and doubtful if he'll ever walk again, much less dance. It's a tough game sometimes, Johnny." Johnny.'

'Yes; it is."

The end of the week drew near. Johnny was descending to his dressing room after the Saturday matinee. It had been an unusually cold audience. He had worked hard and was perspiring freely when he

The passage between the dressing rooms downstairs was deserted. Ganton was

upstairs doing his act. As Johnny was passing No. 5 he heard voices. The door was closed, but the transom was open. Blended with Sheila's shrill notes was a man's bass tones. Johnny stopped and listened. Yes, there was no mistaking that voice; it could belong but to one individual—Barnes Jadwyn.

"VOU'RE a sensible girl and you're not going to pass up a chance like

this," he heard the agent say.

"I'd like to head your act, Mr.

Jadwyn—but I can't—I just can't do what
you ask of me," came Sheila's voice in

Once Johnny's hand was almost on the knob. Then he shook his head and started on. None of his affair. He couldn't afford to play knight errant to every girl who crossed hls path. Too many of them; and, anyway, the girl must sooner or later learn that vaudeville was a rough road for those not "in the know."

"I'll leave you to think it over; but I must have a negitive answer by Tuesday." Once Johnny's hand was almost on the

must have a positive answer by Tuesday night," he heard Jadwyn say.

A sudden ruse occurred to Johnny. He hurried back to the end of the passage, waited until the door of No. 5 went shut, then turned the corner in time to meet Jadwyn in the passage.

"Hello, Johnny Clavering!" was the agent's effusive greeting.

"Howdy, Jadwyn!"
"Understand you're the usual riot here
this week." Soft soap. Jadwyn's stock in trade.

The agent was a man of forty-five or more, but looked younger, his careful grooming giving him the appearance associated with youth. His face was smooth shaven, and on close inspection lines of dissipation showed under the eyes and chin.

Johnny's eyes narrowed slightly. "What brings you here? Some of your artists on this bill?"

"Oh, yes—Sheila Shambaugh." Jadwyn winked. "Clever girl, el, boy, what?"
He gave Johnny a playful dig in the ribs. Johnny's first impulse was to hand the agent a clip behind the ear. But that would only defeat his purpose. So he hid his resentment under his usual smile as he replied:

"Clever is right. If she keeps on at this gait, some production manager will be snapping her up."
"They may try, Johnny, but they'll not

(Continued on page 30)

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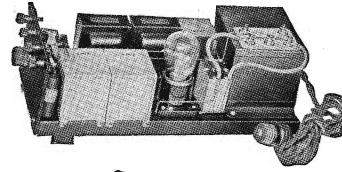
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Portable Super-Het Actual Size Template for 8-tube Super using 199 type tubes. Complete building instructions appearing in First and Second June issues of Radio Digest. 25 cents for template—30 cents for copies containing instructions. Book Dept., Radio Digest, 510 North Dearborn Street. Chicago. Street, Chicago.

Complete instructions for building the Simplest Possible Super-Het. 16-page booklet containing instructions for building and an exact size template for drilling panel and base. How to build a loop. 35 cents. Book Dept., Radio Digest, 510 N. Dearborn St., Chicago.

We still have a limited number of the actual size templates and blue prints for the following sets which have been described in Radio Digest; Super-Torodyne, 8-tube super-het: Fireside, 6-tube radio frequency; Grand Prix, 8-tube super-het; Counterphase, 6-tube radio frequency; DX Seven, 7-tube super; 4 Filter Super and the Straight-8, an eight tube super-het. Each set, 25 cents. Book Department, Radio Digest, 510 N. Dearborn St., Chicago.

#### DOGS

Beautiful registered bull pups, \$15. Bulldogs, 501 Rockwood, Dallas, Texas.

#### FOR SALE OR EXCHANGE

Have about \$100 of radio apparatus. Will exchange or sell. What have you? E. H. Ives, 2625 Hollywood Ave., Chicago.

#### FOR SALE

Here is your opportunity to obtain a real good buy on ¼-HP, 110-volt, 60-cycle, single phase, AC, enclosed dust proof new electric grinders and buffers, 6-inch emery wheel on one side and 6-inch buffer on the other, with cord and plug, at a low price of \$15.75 each. Special price on brand new I-KW or 1000-Watt, 32-volt, 1150 speed, late design, Westinghouse light and power generators with pulley, ready to run at \$48.00 each. Largest dealers in new and used motors and generators in the Northwest. Send us your inquiries. General Distributing Co., Security Storage Bldg., Duluth, Minn.

#### **MISCELLANEOUS**

Photos of Your Favorite Radio Stars. Ten cents and coupon appearing on another page of this issue will entitle you to one of the photos from Radio Digest gallery of stars. Radio Digest, 510 North Dear-born Street, Chicago.

#### PATENT ATTORNEYS

PATENT ATTORNEYS

PATENTS. Booklet free. Highest references. Best results. WATSON E. COLEMAN, Patent Lawyer, 644 G Street, Washington, D. C.

#### **RADIO**

customers already. Don't require any bat-Write today. Picture e. Crystal Radio Comteries nor and particu tubes unlare Tree pany, Wichita, Kansas.

All makes radios bought and sold. Gilbert Terrell, Hapersfield, N. Y.

Closing out all of my Radio stock. 200-ohm potentiometer with sliver knob and dial, 10 cents; Howard rheostats 6½, 6¾ or 25-ohm, 75 cents; Filkostats, 50 cents; set eight lettered binding posts, 25 cents; variable condensers with dial and vernier, 13-plate, \$1; 23-plate, \$1.5; 4-inch black dials, 3—50 cents; 3-inch, 3—35 cents. Bronsteins Pharmacy, 4600 Lincoln Ave., Chicago.

#### "SURE-FIRE STUFF"

(Continued from page 29)

succeed. Got her sewed up tight. Contract! For two years. I know talent when I see it."

"You must be getting something besides the usual percentage?"

Proud little Sheila, too independent to let her friend know the heavy financial strain that kept her spirits down, began to feel the web of Spider Jadwin winding about her. Her unapproachable manner made it impossible for Johnny to understand the situation. The story ends next week and Bobby will give you a surprise.

#### OLD STATIC'S FUNERAL

(Continued from page 10)

which we are about to construct comprises approximately a sheet of No. 10 gauge copper 3 by 2 feet planted 3 to 4 feet underground and as close to the building housing the receiver as possible. In digging the hole leave ample room in its dimensions so that a good job of tamping the earth may be done when the hole is filled again. Prepare a salt solution containing about two pounds of salt in a bucket of water, and in this dissolve shredded bits of newspapers until the en-tire mass is a pulpy, semi-thick mass. Next place a sheet of building paper in the bottom of the hole and allow it to lap toward the top 6 to 10 inches. Over this paper place the newspaper mixture to a depth of about 3 inches. Upon this mixture is laid the copper plate to which has previously been soldered the connecting wire which goes to the antenna post of the receiver. With the plate in place another 3-inch covering of the newspaper mixture is laid and over this is covered a layer of building paper. The hole is now ready to be filled, and it is important in filling that the earth be kept moist so

that it can be packed quite solid. The connecting wire should be lead-covered cable, encasing a single strand of No. 12 or 14 solid copper wire, this wire being rubber insulated from its lead sheath. This may be procured from most dealers in electrical supplies or they will dealers in electrical supplies or they will secure it from the jobber for you.

Your present antenna should now be disconnected and the wire from the under-ground sheet connected to the antenna post of the receiver. The diagrammatic view also shows a ground connection which can be the present ground you are using, although in most cases one will find that no ground will be needed with the underground entenne connected to the receiver ground antenna connected to the receiver. In other words, the ground post of your receiver need possibly have no connection made to it. With some makes of receivers better results will be had if the underground antenna lead-in is connected to a .0001 mfd. fixed condenser and the remaining terminal of the fixed condenser attached to the antenna post of the receiver.

Of all of the underground schemes tried, the one described here has proven gen-

### ale GROUND HOG DOUBLES POWER AND DISTANCE

Marveleus newly-invented ground gives 100% improved reception. Doubles power and distance. Stops leakage. Reduces static. Stops langling even in mid-summer. Results never before equalled, users say. Satisfaction Guaranteed. Proven absolutely essential to clear, powerful distance reception. Draws and holds moisture indefinitely. Highly sensitive to radio energy. SEND NO MONEY—To introduce, we offer to those who act at once, regular \$5.00 size for only \$2.00. Sond name today and pay \$2.00 plus 170 postage on delivery. Or send only \$2.00 with order and save postage. FREE—Full description of Ground Hog and big money making agent's offer on request—write today. Yale Specialty Supply Co. 123 W. 5th St., Kansas Giy, Mo.

### FOR CLEAR, QUIET "B" POWER



600 Mile Radio \$2.95. 200,000 satisfied 24 Volts Lasts Indefinitely—Pays for Itself Approved and listed as Standard by leading Radio Authorities, including Pop. Radio Laboratories, Pop. Sci. Inst. Standards, Radio News Laby, Lefnx, Inc., and other important institutions. Equipped Kitch Laboratories, Pop. Sci. Inst. Standards, Radio News Laby, Lefnx, Inc., and other important institutions. Equipped Kitch Laboratories, Inc., and the Pop. Laboratories of the Sci. American Laboratories of the Sci. Institution of the Sci.

is recoived. Extra offert 4 batterles in series (96 volts), \$10,00. ray expressment offer examining batterles. 5 per cent discount for cash with order. Mail your order now!

1219 So. Wabash Ave., Dept. 76 Chicago, Ill. Makers of the Famous World Radio '1' Storage Battery. Prices: 6-volt, 100 Amp. of the State of the

you that neither success nor failure can be promised in advance. Soil conditions, magnetic earth currents, and the type of receiver used and its efficiency have much effect on the degree of your success. The author has given to you the benefit of others' experiments as well as his own research, and giving all is the most anyone can do.

#### R.R. IS FOR TRAVELERS

(Continued from page 7)

announcements as compared with the former method, which involved train callers who used megaphones. When it became apparent, as the result of experiment, that greatly improved service could be provided for travelers, arrangements were made immediately to install a regular broadcasting apparatus. Instead of being hooked up with an aerial, like a Radio broadcasting station, this equipment is connected by wires with the various loud speakers throughout the station.

The chief features of the apparatus are

a microphone, amplifying mechanism, and a total of twenty-seven loud speakers, which are distributed in clusters on four pillars in the concourse and also in the waiting rooms and the dining room, compartment, glass-enclosed and containing the microphone and other necessary transmission apparatus, was built for the announcer between the doors to the main waiting room in the center of the concourse. The apparatus builds up and amplifies the human voice and, as a result, the announcer's words can be heard distinctly in the concourse and in all other parts of the station covered by loud speakers.

Although the use of the broadcasting system for train announcing is an in-novation in itself, a popular feature in regard to the way it is used also has been developed. The announcer does more

than merely recite the time table. He "talks to the public" immediately following the announcement of specific trains, and in addition broadcasts weather reports and news items relating to Pennsylvania Railroad affairs or to important current events.

He also frequently tells passengers boarding a particular train about historical places or scenic spots through which the train will pass. The announcer is constantly in touch with the chief dis-patcher, and in case of interruptions in the service he immediately passes the information on to waiting patrons.

Besides, the announcer puts a personal or humorous touch in his remarks when the chance offers. A wedding party inspired this greeting: "To the bride and

### Beat the Summer Static

Use Your Radio as an Electric Phonograph

Results equal to the new high-priced Electric Phonographs now appearing on the market.

We tell you how to do it at a small cost. Send \$1.00 for complete plans.

Mogle & McClelland 1024 MAIN, WINPIELD. KANSAS

erally most satisfactory, but in conclu- bridegroom at gate No. 12, about to start sion I would not be fair did I not caution on their honeymoon, we extend our hearty congratulations. You are starting right in starting over the Pennsylvania Railroad. May your other journeys through life be made with the same wisdom."

The announcing system is in operation daily from 8 a. m. until midnight, and is under the general supervision of W. R. Jones, Station Master. J. O. Hackenburg, Superintendent of the Philadelphia Terminal Division, conceived the idea of broadcasting train announcements and put it into effect.

#### Improve Tube Manufacture

CHICAGO.—Recent laboratory investi-gations by the metallurgical laboratory of the Peoples Gas Light and Coke company, here, have resulted in a better Radio tube The work done involves tubes in which the nickelplate in the grid of the tubes is degasified.

Nickel absorbs vagrant gases. When the necessary vacuum is pumped, the gases will come out of the nickel. This renders the tubes very unsatisfactory.

The gas company has perfected a process wherein these vagrant gases are driven out of the nickel before the vacuum is pumped. A hydrogen reduction furnace solved the problem.

The transmitting station of WJZ at Bound Brook, N. J., is entirely enclosed in a copper shield built into the walls so that energy radiating from the transmit-ter's oscillator and modulator tubes and circuits will not cause disturbance in neighboring receivers.



# A&B Battery \$2 Charger ONLY

Satisfaction Guaranteed



R. B. SPECIALTY COMPANY Dept. Y-1, 308 East Third Street, Cleveland, Ohio



# EINITE Low Loss Interference Eliminator

No Radio Set Complete Without It

Select stations at will. With music and voices crowding the air the average set fails to bring in the desired stations properly. The Steinite Interference Eliminator shuts out local and other interference. You get one station at a time, the one you want, and tune in loud and clear. Operates on any set—attach to aerial wire and to set—no changes—no extra tubes or batteries, Greatest Dollar Value in Radio Today.

OVER 300,000 SOLD

Fred W. Stein.

Improved Results With Tube or

Crystal Tryentirely at my risk the wonderful improvement this inexpensive little device will make in the reception of your set. Improves results on both crystal and tube sets that use any kind of aerial except loop antenna. Clears up reception wonderfully, increases volume, and partially absorbe static. MONEY-BACK GUARANTEE.

Mfrs. Famous 1,500-Mi. Steinite 1-Tube set \$6. Long distance Crystal Set, \$6. Steinite Crystals, 50c—3 for \$1. Write for complete illustrated literature on all Steinite Radio Products.

STEINITE LABORATORIES,



Put this interference eliminator on your set and note amazing improvement. No tools needed—install in a moments time. Connect with set and follow simple instructions. Money back promptly if not delighted. \$1.00 postpaid anywhere in U.S. when eash with order.

References: Exchange National Bank, Atchison Savings Bank. Order today—a dollar bill will do. Postpaid If you are not delighted with results you get your dollar back

261 Radio Bldg., ATCHISON, KANSAS

# Radiophone Broadcasting Stations

## Corrected Every Issue-Part V

State, City, Call Alabama: Auburn, WAPI Birmingham, WBRC Montgomery, WIBZ Arizona:

Flagstaff, KFXY Phoenix, KFAD, KFCB

Arkansas: Fayetteville, KUOA Hot Springs National Park, KTHS California:

California:
Alma, KFQU
Avalon, KFWO
Bear Lake, KFXB
Berkeley, KRE
Burlingame, KFOB
Chico, KFWH
Fresno, KMJ
Hollywood, KFQZ, KFWB, KNX
Long Beach, KFON
Los Angeles, KFI, KFPR, KFSG,
KHJ, KNTFR, KNRC, KTBI
Oakland, KFUS, KFUU, KFWM,
KGO, KIS, KLX, KTAB, KZM
Oxnard, KFYKF
San Diego, KFBC, KFSD
Sacramento, KFBK
San Diego, KFBC, KFSD
San Francisco, KFRC, KGTT,
KJBS, KFO, KUO
San Jose, KFAP, KQW
San Pedro, KFVD
Santa Barbata, KFHJ
Santa Maria, KSMR
South San Francisco, KFWI
Stockton, KWG
San Bernardino, KFWC
Colorado:

Colorado: Colorado:
Colorado Springs, KFUM, KFXF
Denver, KFEL, KFXJ, KFUP,
KLZ, KOA
Greeley, KFKA
Gunnison, KFHA
Trinidad, KFBS

Connecticut:
Hartford, WTlC
New Haven, WDRC
Stores, WCAC

Delaware: Wilmington, WDEL

District of Columbia: Washington, WCAP, WMAL, WRC, WRHF

Florida: Florida:
Clearwater, WGHB
Fulford-by-the-Sea, WGBU
Jacksonville, WJAX
Miami, WQAM
Miami WQAM
Miami Beach, WIOD, WMBF
Pensacola, WCOA
St. Fetersburg, WHBN, WJBB
Tampa, WDAE
Winter Park, WDBO

Atlanta, WDBE, WGST, WSB, Macon, WMAZ Savannah, WEBZ

**Idaho:**Boise, KFAU, KFDD
Kellogg, KFEY

Illinois:
Batavia, WORD
Cambridge, WTAP
Carthage, WTAD

State,

State, City, Call

Illinois (Continued)
Chicago, KYW, WAAF, WBBM,
WBBZ, WBCN, WEBH, WENR,
WFKB, WGN, WHBL, WHBM,
WHZ, WKB, WGN, WHBL, WHBM,
WHZ, WKBG, WLIB, WLS,
WLYS, WMAQ, WMBB, WOK,
WPCC, WQJ, WSAX, WSBC,
WSWS

Decatur, WBAO, WJBL
Evanston, WEHS
Galesburg, WFIJZ, WRAM
Harrisburg, WEBQ
Joliet, WCLS, WJBA, WKBB
La Salle, WJBC
Mooscheart, WJJD
Oak Park, WGBS
Plainfield, WWAE
Reckford, KFLV
Rock Island, WHBF
Streator, WTAX
Sycamore, WJBN
Tuscela, WDZ
Irbana, WRM
Zien, WCBD

Indiana:

Indiana: ndiana:
Anderson, WEBD, WHBU
Culver, WCMA
Evansville, WGBF
Fort Wayno, WHBJ, WOWO
Kokomo, WJAK
Indianapolls, WFEM
Laporte, WRAF
Lugansport, WIBW
South Bend, WSBT
Seymour, WFBE
Valparaiso, WRBC
West Lafayette, WBAA

Ames, WOI
Anita, KFLZ
Boone, KFGZ
Boone, KFGZ
Burlington, WIAS
Cedar Rapids, KWCR, WJAM
Clarinda, KSO
Council Bluffs, KOIL
Davenport, WOC
Des Moines, WHO
Fort Dodge, KFJY
Iowa City, KFQP, WSUI
LeMars, RWUC
Marshalltown, KFJB
Muscatine, KTNT
Oskafoosa, KFHL
Shenandoah, KFNF, KMA
Sioux City, KFMR, WEAU
Kansas: Iowa:

Kansas: Independence, KFVG
Junction City, KFJC
Lawrence, KFKU
Manhattan, KSAC
Wichita, KFH, KFOT

Kentucky: Louisville, WHAS, WLAP

Louisiana:

Kennonwood, KFDX, KWKH

New Orleans, WABZ, WBBS,
WCRE, WJBO, WOWL,
WSMB, WWL

Pineville, KFWU

Maine: Bangor, WABI Orono, WGBX Portland, WCSH

Maryland:
Baltimore, WBAL, WCAO,
WCBM, WFBR
Takoma Park, WBES

City,

State, City, Call

Massachusetts:
Boston, WBZA, WEEL, WNAB,
WNAC, WSSH
Fall River, WSAR, WTAB
Medford Hillside, WARC
New Bedford, WIBH, WNBH
South Dartmouth, WMAF
Springfield, WBZ
Taunton, WAIT
Webster, WKBE
Worcester, WTAG

Wordesce
Michigan:

Tov City, WSKC

Tovings, WEMC Michigan:
Bay City, WSKC
Berrien Springs, WEMC
Dearborn, WWI
Detroft, WCX, WGHP, WJR,
WMBC, WWKAR
Essat Lansing, WKAR
Escanbe, WRAK
Flint, WFDF
Grand Rapids, WBDC, WOOD
Houghton, KFMW, WWAO
Lansing, WREO
Mt. Clemens, WABX
Owosso, WSMH
Petoskey, WBBP
Port Huron, WAFD
Royal Oak, WAGM
Ypsilanti, WJBK
Winnesota:

Ypsilanti, WJBK

Minnesota:
Collegevillo, WFBJ
Fairmont, KFVN
Minneapolis, KFDZ, WAMD,
WCCO, WGGY, WHDI, WLB,
WRHM
Northfield, KFMX, WCAL
St. Cloud, WFAM
St. Paul, AV7, KFOY
Sihtlpok, KIAF

Mississippi:
Coldwater, WREC
Oxford, WCBH
Missonri:

Oxford, WCBH

Missouri:
Cape Girardeau, KFVS
Carterville, KFPW
Columbia, KFRU
Independence, IXLDS
Jefferson City, WOS
Kansas City, KWKC, WDAF
WHB, WOQ
KIrksville, KFKZ
Moberly, KFFP
St. Louls, KRQA, KFUO,
KFWF, KMOX, KSD, WEW,
WIL, WMAY, WSBF
University City, KFVE

Montana: Havre, KFBB Missoula, KUOM

Missoula, KUUM

Nebraska:
Clay Center, KMMJ
David City, KFOR
Hastings, KFKX
Lincoln, KFAB, WFAY
Norfolk, WJAG
Oak, KFEQ
Omaha, KFOX, KOCH, WAAW,
WNAL, WOAW
University Place, WCAJ

New Hampshire: Laconia, WKAV

New Jersey:
Atlantic City, WHAR, WPG Camden, WCAM Elizabeth, WIBS Glouester City, WRAX Lambertville, WTAZ Newark, WAAM, WNJ, WOR North Plainfield, WEAM Paterson, WODA

State. City, New Jersey (Continued)
Red Bank, WJB1
Trenton, WOAX

New Mexico: Albuquerque, KFLR, KFVY State College, KOB

New York:
Bay Shore, WRST
Buffalo, WEER, WGR, WPDQ,
WSVS
Canton, WCAD

WAYS
Canton, WCAD
Cazenovia, WMAC
Flushing, WIBI
Freeport, WGBB
Ithaea, WEAI
Jamestown, WOCL
Kingston, WDBZ
Lockport, WMAK
New York, WBBR, WBNY,
WEAF, WEBJ, WFBH, WFRL,
WGBS, WGCP, WHAP, WHN,
WJY, WJZ, WLWL, WMCA,
WISG, WNYC, WOKO, WQAO,
WRMU, WRNY, WSDA
Richmond
Hill, WAHG, WBOQ,
WGMU,
Rochester, WABO, WHAM,
WHEC
Schenetady, WGY

WHEC Schenectady, WGY Syracuse, WFBL Tarrytown, WRW Tondi, WONK Troy, WHAZ Utlea, WIBX

North Carolina:
Asheville, WABC
Charlotte, WBT, WJBG
Fort Bragg, AT9
Greensboro, WNRC
Raleigh, WRCO

North Dakota: Bismarck, KFYR
Devils Lake, KDLR
Fargo, WDAY, WPAK
Grand Forks, KFJM

Ohio:

Akron, WADC
Bellefontaine, WHBD
Canton, AQ6, WHBC
Cincinnati, WAAD, WKRC, WLW,
WSAI
Cleveland, WDBK, WEAR, WHK,
WTAM Columbus, WAIU, WEAO, WMAN WMAN
Dayton, AW5, WSMK
Hamilton, WRK, WSRO
Pomeroy, WSAZ
Springfield, WCSO
Toledo, WABR, WTAL
Wooster, WABW
Yellow Springs, WRAV

Oklahoma:
Bristow, KVOO
Chickasha, KOCW
Norman, WNAD
Oklahoma City, KFJF, KFXR,
WKY
Tulsa, WLAL

Oregon: Pregon:
Astoria, KFJI
Corrallis, KOAC
Portland, KFEC, KFJF, KFJR,
KFWV, KGW, KOIN, KTBR

Pennsylvania:
Allentown, WCBA, WSAN
Altoona, WFBG
Elkins Park, WIBG

City,

State, City, Call
Pennsylvania (Continued)
Grove City, WSAJ
Harrisburg, WABB, WBAK,
WHBG, WPRC
Haverford, WAEQ
Johnstown, WHBP
Lancaster, WGAL
Lewisburg, WJBU
OII City, WHBA
Parkesburg, WQAA
Philadelphia, WABY, WCAU,
WFI, WHBW, WIAD, WIP,
WLIT, WNAT, WOO
Pittsburgh, KDKA, KQV, WCAE,
WJAS
Reading, WRAW
Scranton, WGRI, WQAN
State College, WPSC
Wikes-Barre, WBAX, WBRE

Rhode Island: Cranston, WDWF Providence, WCBR, WEAN, WJAR, WLSI

South Carolina: Charleston, WBBY

South Dakota: Brookings, Kfl)Y Rapid City, WCAT Vermillion, KUSD Yankton, WNAX

Tennessee:
Chattanoga, WDOD
Knoxville, WPBC, WNOX
Lawrenceburg, WOAN
Memphis, WGBC, WHBQ, WMC
Nashville, WBAW, WDAD, WSM

Nashville, WBAW, WDAD, WSM

Texas:
Auarillo, WDAG, WQAC
Austin, KUT
Beaumont, KFDM
Beeville, KFRB
Brownsville, KWWG
College Station, WTAW
Dalla's, WFAA, WRR
Dublin, KFPL
EI Paso, KFNH, WDAH
Fort Worth, KFPB, KFIJZ, WBAP
Galveston, KFLX, KFUL
Greenville, KFPM
Houston, KFVI, KFYJ, KPRC
San Antonio, WCAR, WOAI
San Bentlo, KFLU
Texarkana, KFYO
Waco, WJAD

Utah:

Utah: Logan, KFXD Ogden, KFUR, KFWA Salt Lake City, KDYL, KFOO, KFUT, KSL Vermont:
Burlington, WCAX
Springfield, WQAE

Virginia:
Norfolk, WBBW, WTAR
Radio, NAA
Richmond, WBBL, WRVA
Roanoke, WDBJ

Moanoke, WDBJ

Washington:
Everett, KFBL
Lacey, KGY
North Bend, KFQW
Olympia, KFRW
Pullman, KWSC
Seattle, KFOA, KJR, KOMO,
KTW
Snokane, KFOA KTW
Spokane, KFIO, KFPY, KHQ
Tacoma, KMO
Walla Walla, KOWW
Yakima KFIQ

City, State. Call West Virginia: Weirton, WIBR

Wisconsin: Wisconsin:
Beloit, WEBW
Camp Lake, WCLO
Eau Claire, WTAQ
Fond du Lae, KFIZ
Madison, WHA. WIBA
Marshfield, WGBR
Milwaukce, WHAD,
WSOE
Omro, WJBR
Poynette, WIBU
Sisibt, WBAR
Stevens Point, WLBL
Superior, WEBC
West De Pere, WHBY
Wyoming:

Wyoming: Laramie, KFBU Alaska:

Anchorage, KFQD Juneau, KFIU Hawaii: Honolulu, KGU

Philippine Islands:
Bagulo, KZUY
Manila, KZIB, KZKZ, KZRQ

Porto Rico: San Juan, WKAQ

San Juan, WKAQ

Canada:
Burketon Junction, CKCW
Burnaby, CJTAC
Calgary, CFAC, CFCN, CNRC
Charlottetown, CFCY, CJCA, CNRE
Hamilton, CFCK, CJCA, CNRE
Hamilton, CFCU, CHCS, CKOC
Iroquois Falls, CFCH
Kingston, CFMC, CFRC
London, CJGC
Moncton, CJGC
Moncton, CJGC
Moncton, CFCA, CHTC, CKAC,
CNRM
New Westminster, CFXC, CFYC
Ottawa, CHXC, CKCX, CNRO
Regina, CHWC, CKCX, CNRO
Regina, CHWC, CLCX, CNRC
CNRS
Thorold, CFKC
Toronto, CFCA, CHIC, CHNC,
CIEC, CCD, CJSC,
CKCL, CKNC, CNRT
Unity, CHSC
Vancouver, CFCA, CFDC, CKCD,
CKFC, CNRC
Victoria, CFCT
Winnipes, CKY, CNRW

Cnba: Canada:

amaguey, 6YR, 7AZ, 7BY, 7CX, 7DW, 7SR

7DW, 7SR
Santa Clara, 6BY, 6DW, 6EV,
6GR, 6GT, 6HS, 6JQ
Colon, 5EV
Havana, PWX, Q2LC, 1AZ, 2AB,
2BB, 2BY, 2CG, 2CX, 2EP,
2HP, 2JL, 2JP, 2LR, 2MG,
2MK, 2OK, 2OU, 2FK, 2RK,
2RM, 2RY, 2SZ, 2TW, 2UF,
2WW, 2XX
Mantanzas, 5AZ, 5BY
Santiago, 8AZ, 8BY, 8FU, 8IR,
8JQ

8JQ Tuinucu, 6XJ, 6KW Tunucu, SAJ, SKW

Mexico:
Chihuahua, CZF
Mazatlan, CYR
Mexico City, CYA, CYB, CYG,
CYH, CYL, CYX, CYZ, CZA,
CZE, NDA
Monterey, CYS
Oaxaca, CYF

#### STATION SCHEDULES

(Continued from last issue)

(Continued from last issue)

CHIC, Toronto, Can. 356.9m-840kc. 500 watts. Northere Electric Company, Ltd. Announcer, R. W. Lowman. Mon, 8-10 pm. Sat, 10-12 mid. Sun, 5-6 pm. Eastern daylight.

CHNC, Toronto, Can. 356.9m-840kc. 750 watts. Toronto Radio Resoarch society.

CHSC. Unity, Sask., Can. 356.9m-840kc. 250 watts. Horaco N. Stovin. Slogan, "A Good Town in a Good District." Daily ex Sun, 5-6:30 pm. Wed, 8-12 mid. Sun, 9-10:30 pm. Mountain.

CHUC, Saskatoon, Sask., Can. 329.5m-910kc. 50 watts. International Bible Students' association. Announcer, G. B. Nash. Tues, Thurs, 8-10 pm. Sun, 8:30-10:30 pm.

pm.

CHWC, Regina, Sask, Can. 296.9m-1010kc. H. Williams & Co.

CHXG, Ottawa, Ont., Can. 434.5m-690kc. 250 watts.

J. R. Bootb, Jr. Fri, 8:30-1 am.

CHYG, Montreal, Que., Can. 410.7m-730kc. 850 watts.

Northern Elec. Co., Ltd. Announcer, N. S. Richards.

Wed, 7-8 pm, 8:30. Sun. 11 am, 7 pm.

Grams occasionally. Fastern daylight.

CJBG, Toronto, Can. 356.9m-840ke. Jarvis St. Baptist

CJBC, Toronto, Can. 308.9m-8408c. Jarvis St. Baptist. Church.
CJCA, Edmonton, Alta., Can. 516.9m-580kc. 500 watts. Edmonton Journal, Ltd. Announcer, R. A. Rice. Slogan: "The Sunnlest Spot in Sunny Alberta." Daily ex Sup, 12:30 pm, news, markets. Thurs, 6-8 pm. Mom, Tues, Wed, Sat, 7:30-8 pm. Mom, 8:30-10 pm. Wed, 9-11 pm. Sat, 10-12 mid. Sun, 7:30-9 pm. Mountain

Mountain.

GJCD, Toronto, Ont., Can. 356.9m-580kc. 50 watts. The
T. Eaton Co., Ltd.

GJGC, London, Ont., Can. 829.5m-910kc. 1,000 watts.
London Free Press. Daily ex Sun, 1-2 pm. stooks.
music. Tues, Wed, Thurs, Fri, 7-9 pm. Fri, 11-12
midnight. Sun, 11 am, 1-3 pm, 7, church services.
Eastern.

music. Tues, Wed, Thurs, Fri, 7-9 pm. Fri, 11-12 midnight. Sun, 11 am, 1-3 pm, 7, church services. Eastern.

CIRC, Burnaby, B. C., Can. 410.7m-730ko. 500 watts. Pyramid Temple society.

CISC, Toronto, Can. 356.9m-840kc. 500 watts. The Evenling Telegram.

CIWC, Saskatoon, Sask, Can. 329.5m-910kc. 250 watts. Wheaton Elec. Co. Announcer, M. Bowes. Daily ex Sun, 12-1 pm. Mon, 8-10. Tues, Thurs, 6-7 pm. dinner. Slogan, "The Voice of Saskatoon." Mountain.

CIYC, Toronto, Can. 201.1m-1030kc. 500 watts. DeForest Radio Corp., Ltd.

CKAC, Montreal, Que, Can. 410.7m-730kc. 3.300 watts. La Presse. Announcer, Jacques Cartier. Mon, Wed, Fri, 1-45 pm, orchestra. Daily ex Sat, 4 pm, weather, markets, stocks, reports. Tues, Sat, 7 pm, safety talker, 10:30, dance. Sun, 2:45 pm, Capitol theater; 4:30, first three Thurs of month, CNRM. Last Thurs, Frontenae Breweries studio. Eastern.

CKCD, Vancouver, B. C., Can. 410.7m-730kc. 750 watts. Vancouver Daily Province. Announcer, William Rose. Slogan, "Canada's Western Gateway." Daily ex Sun, 8:30-0:30 pm, music, news, entertainment. Pacific.

CKCK, Regina, Sask., Can. 312.3m-960kc. 500 watts. Leader Pub. Co. Announcer, A. W. Hooper. "The Queen City of the West." Daily ex Sat, Sun, Tues, 9:45-10:30 am; 12:15-1 pm; 7:30-9:30 pm. Sat, 9:15-10:30 am; 12:15-1 pm. Sun, 8 pm, service. Mountain.

CKCL, Toronto, Can. 356.9m-840kc. 5.000 watts. The Dominion Battery Co. Ltd.; Duily ex Sat. Sun. 10:30 am. 10:38, time. Mon. Wed. Fri. 7 am. 7:15, 7:45, exercises; Mon. 11:20 am. markets; 3:30-4:30 pm. Thurs. 3-4:30 pm. Fri. 11 am. 11:20 am. markets; 3:330-4:30 pm. Thurs. 3-4:30 pm. Fri. 11 am. 11:20 am. arakets; 3:15-4:30 pm. Thurs. 3-4:30 pm. Fri. 11 am. 11:20 am. arakets; 3:15-4:30 pm. Thurs. 3-4:30 pm. Fri. 11 am. 11:20 am. arakets; 3:15-4:30 pm. Sat. 7-8 pm. Sun. 3-4 pm. Eastern. CKCO, Ottawa, Ont., Can. 434.5m-690ke. 100 watts. Dr. G. M. Geldert (Ottawa Radio Asan.) Announcer, Dr. O. K. Gibson. Stogans, "Ottawa's Radio Voice." The Community Voice of Canada's Capital." The; 8-10 pm. Sun, 7 pm, services; 9, sacred concert. Eastern. CKCW, Burketon Junction, Ont., Can. 329.5m-910kc. 5,000 watts. Canadian Broadcasting Corp. CKFC, Vanecouver, B. C., Can. 410.7m-730kc. 50 watts. United Churches of Canada.
CKNC, Toronto, Ont., Can. 356.9m-840kc. 750 watts. United Churches of Canada.
CKNC, Toronto, Ont., Can. 330.7m-880ke. 50 watts. Wentworth Radio Supply Co., Ltd. Announcer, F. May. Slogan: "In the Garden of Canada." Mon. Sat. 6:15-7:15 pm, organ. Tues, Wed, Thors, 5:30-6:30 pm. Fri. 6-7 pm. Sat, 4:30-5:30 pm. Sun. 2-3 pm. Eastern.
CKY, Winnipeg, Man., Can. 384.4m-780ke. 500 watts. Manitoba Tel. System. Announcer, D. R. P. Coats. Slogan, "Manitoba' Own Statlon" Daily ex Sun. 10:50-11 am. time, weather; 12:30-1:30 pm, music, markets, lectures; 4-5, music, news, kiddles Story. Mon. Thurs, Sat. 8:30 pm, CRRW program. Sun, 7 pm. Central. CNRA, Moncton, N. B.. Can. 312.3m-960kc. 500 watts. Canadian National Railways. Announcer, J. S. McArthur. Thurs, 9 pm. Eastern daylight. Canadian National Railways. Thurs, 7 pm, bedtine story; 9-11. Mountain.
CNRE, Edmonton, Alta., Can. 415.6m-750ke. 500 watts. Canadian National Railways. Thurs, 7 pm, bedtine story; 9-11. Mountain.
CNRS, Manitonal Railways. Thurs, 7 pm, bedtine story; 9-11. Mountain. CNRE, Edmonton, Alta., Can. 416.7m-730kc. 1,000-1.650 watts. Canadian National Rail

tain,
CNRS, Saskatoon, Sask., Can. 329.5m-910ke. 500 watts.
Canadian National Railways. Daily, 2:30-3:30 pm.
Mountain.
CNRT, Toronto, Ont., Can. 356.9m-840ke. 500 watts.
Canadian National Railways. Announcer, E. W. Jackson. Fri, 6:30-12 mldnight. Eastern daylight.
CNRV, Vancouver, Can. 291.1m-1030ke. 500 watts.
Canadian National Railways. Announcer, G. A.
Wright.

Canadian Vacional Veright.

CNRW, Winnipeg, Man., Can. 384.4m-780kc, 500 watts.

Canadian National Railways. Wed, 8:30 pm, bedtime story; 8:50, markets; 9, program. Central.

Cuba

PWX, Havana, Cuba. 400m-750kc. 500 watts. Cuban Telcphone Co. International Tel. & Teleg. Corp. Mon, Tues, Sat, 8:30-11 pm. Wed, Sun, 8-10 pm, music. Eastern.

2AB, Havana, Cuba. 255m-1277ac. 10 watts. Bernardo Barrie.
2BY, Havana, Cuba. 315m-952kc. 100 watts. Electrical Equipment Co. of Cuba. Mon, Thurs, 7-8 pm. Eastern 2CG, Havana, Cuba. 350m-857kc. 15 watts. Humberto Giquel.
2CX, Havana, Cuba. 320m-937kc. 10 watts. F. W. Rorton.

2CX, Havana, Cuba. 320m-937kc. 10 watts. F. W. Borton.

2EP, Havana, Cuba. 355m-845kc. 400 watts. El Pais. 2HP, Havana, Cuba. 295m-1016kc. 100 watts. Credito y Construcciones Co. 2ll., Havana, Cuba. 270m-1110kc. 20 watts. Jose Leiro. 2lP, Havana, Cuba. 235m-1277kc. 10 watts. Jose Lara. 2MG, Havana, Cuba. 280m-1070kc. 20 watts. Manuel Y. Gullermo Salas Music Store. Announcer, Roger Morales. Dully, 3-4 pm, music. One day each week, 8-11 pm. Eastern.

2MK, Havana, Cuba. 360m-833kc. 100 watts. Mario Garcia Velez.

20L, Havana, Cuba. 360m-833kc. 100 watts. Mario Carcia Velez.

20L, Havana, Cuba. 195m-1538kc. 10 watts. Columbus Cycle Radio Co.

2PK, Havana, Cuba. 320m-937kc. 100 watts. Raoul

2PK, Havana, Cuba. 199m-1588c. 10 watts. George A. Lindeaux. 2RK. Havana, Cuba. 320m-937kc. 100 watts. Raoul Karıman. Casa De La Porte. 210m-1430kc. 10 watts. Rogelio Morales. 2RY, Havana, Cuba. 170m-1764kc. 5 watts. Salvador de la Torre. 2SZ, Havana, Cuba. 180m-1777kc. 10 watts. Homero Sanchez. 2TW, Havana, Cuba. 230m-1304kc. 20 watts. Roberto E. Ramirez. 2UF, Havana, Cuba. 282m-1060kc. 15 watts. Roberto E. Ranirez. 2XX, Havana, Cuba. 225m-1,833kc. 5 watts. Antonio A.

Salchez.

2TW. Havana, Cuba. 230m-1304kc. 20 watts. Roberto E. Ramirez.

2UF, Havana, Cuba. 282m-1060kc. 15 watts. Roberto E. Ramirez.

2XX, Havana, Cuba. 225m-1,333kc. 5 watts. Antonio A. Ginard.

5AZ, Mantanzas, Cuba. 200m-1500kc. 20 watts. Ernesto V. Figueroa.

5BY, Mantanzas, Cuba. 190m-1580kc. 10 watts. Leon Gonzalez Velez.

5EV, Colon, Cuba. 360m-833kc. 10 watts. Leopoldo V. Figueroa. Sun, 9-11 pm. Eastern.

6BY, Santa Clara, Cuba. 260m-1153ke. 200 watts. Jose Ganduse.

6DW, Santa Clara, Cuba. 255m-1233kc. 10 watts. Eduardo Terry.

6EV, Santa Clara, Cuba. 250m-1200kc. 10 watts. Luis del Castillo.

6GT Santa Clara, Cuba. 250m-1200kc. 10 watts. Santa Rama, Cuba. 250m-1200kc. 10 watts. Santa Clara, Cuba. 250m-1200kc. 10 watts. Gl. Santa Clara, Cuba. 250m-1200kc. 10 watts. Santa Clara, Cuba. 250m-1200kc. 10 watts. Santa Clara, Cuba. 250m-1200kc. 10 watts. Gl. Santa Clara, Cuba. 250m-1200kc. 10 watts. Santa Clara, Cuba. 250m-1200kc. 10 watts. Santa Clara, Cuba. 250m-1200kc. 10 watts. Gl. Santa Clara, Cuba. 250m-1200kc. 10 watts. Santa Clara, Cuba. 250m-1200kc. 10 watts. Santa Clara, Cuba. 250m-1200kc. 10 watts. Gl. Santa Clara, Cuba. 250m-1200kc. 10 watts. Servelata Gl. Santa Clara, Cuba. 250m-1200kc. 10 watts. Servelata Gl. Santa Clara, Cuba. 250m-1200kc. 10 watts. Gl. Santa Clara, Cuba. 338m-890kc. 4,000 watts. Frank H. Jones. Slogan, "It was sundand Clara Cuba. 338m-890kc. 4,000 watts. Gl. Santa Clara, Cuba. 338m-890kc. 4,

Q2LC, Havana, Cuba. 250m-1200kc. 50 watts. Luis Casas. IAZ, Havana, Cuba. 275m-1090kc. 30 watts. Antonio Sarasola. 2AB, Havana, Cuba. 235m-1277kc. 10 watts. Alberto S. 248, Havana, Cuba. 235m-1277kc. 10 watts. Alberto S. 248, Havana, Cuba. 250m-1270kc. 10 watts. Alberto S. 250m-1270kc. 20 watts. Diege 100 vra. 250m-1200kc. 20 watts. Diege Jones 6YR. Camaguey, Cuba. 200m-1500ke. 20 watts. Diege 1borra. 7AZ. Canaguey, Cuba. 225m-1333ke. 10 watts. Pedro Nogueras.

Nogueras.
PSY, Cannaguey, Cuba. 235m-1277kc. 20 watts. Eduardo V. Pigueroa.
V. Pigueroa. 85m-8528kc. 10 watts. Leonard B. Fox.
7DW, Caunaguey, Cuba. 90m-3333kc. 10 watts. M. L. Quintana.
7SR, Cannaguey, Cuba. 300m-1000kc. 500 watts. Shador C. Rionda. Slogan, "Cuba, the Land of Sunshine. Sugar and Tobacco." Mon, Tues, Thurs, 8:30 pm. Eastern.

Sugar and Tobacco." Mon, Tues, Thurs, O. 90 Phys. Eastern. AZ, Santiago, Cuba. 240m-1250kc. 20 watts. Alfredo

Brooks. 8BY, Santiago, Cuba. 250m-1200kc. 100 watts. Alberto Ravelo. 8FU, Santiago, Cuba. 225m-1333kc. 15 watts. Andres Vinent. Vinent. 81R, Santiago, Cuba. 190m-1580kc. 20 watts. Ceferino Ramos. 81Q. Santiago, Cuba. 275m-1090kc. 20 watts. Jose Fernandez Heredia.

#### Mexico

CYA, Mexico City, Mex. 265m-1130ke. 500 watts. Mon, Fri, 6:45-8 pm. Sun, 4-6 pm. Partido Liberal Avanzado. Mexican.

CYA, Mexico City, Mex. 200mi-11000c. 500 watts. El Event Theorem Communication of the Cyberral Avanzado. Mexican.

CYB, Mexico City, Mex. 270m-1110kc. 500 watts. El Buen, Tonn. Tues, Thurs, Sat, 7:30-9 pm, concert. Mexican.

CYF. Oaxaca, Oax., Mex. 260m-1153kc. Federico Zorrilla. The Voice from South of Mexico." Tues, Thurs, 7-8 pm. Sun, 8:30-10 pm. Mexican.

CYG, Mexico City, Mex. 300m-1000kc. 1,000 watts. Secretara de Guerra y Martina.

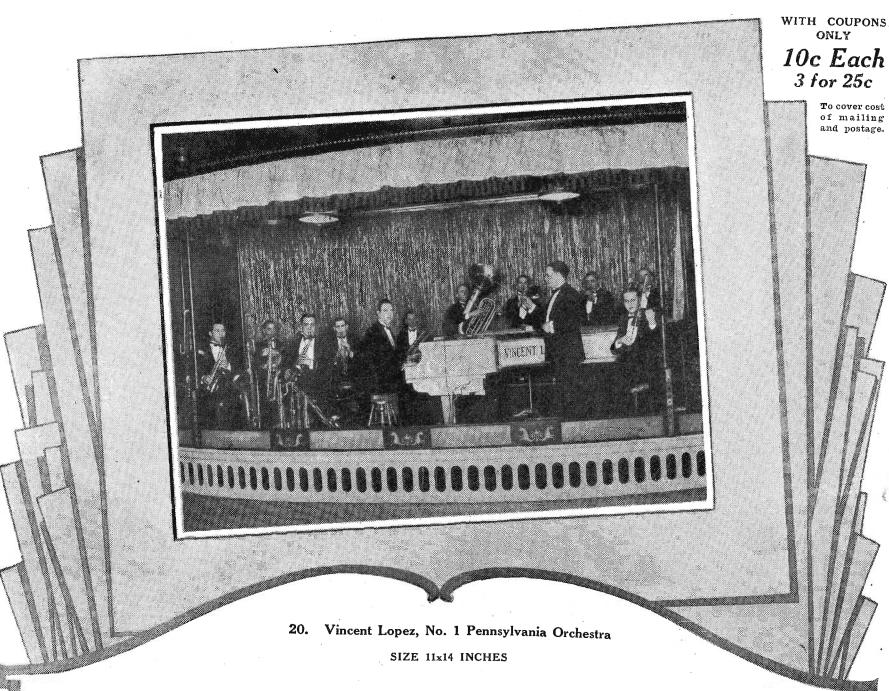
CYH, Mexico City, Mex. 325m-923kc. 100 watts. High Lific. Slogan, "Los Proveedores del Caballero Que Viste Bien." Announcer, Jorge Chulin Mallet. Fri, 8:30-10 pm. Mexican.

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- 21 E. L. Tyson, pleasing voice at WWJ
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- 25 Harry Ehrhart, "Dream Daddy" at WLIT
- 26 Correll and Gosden of "Kinky Kids Parade" fame and Sam 'n' Henry at WGN.
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- zak, Blues Singer of Twin Cities, wcco
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- 33 Pat Barnes, vaudeville announcer at WHT
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