

All Wave Length Changes Up-to-Date

Radio Digest

TWICE
A MONTH

PROGRAMS

FIFTEEN
CENTS

AUGUST NUMBER, 1927

Vol. XXII No. 1



Columbia Broadcast System; Marconi Eliminates Code; Twenty Gold Cup Candidates; 2LO in N. Y. Chain; Royalty in Radio Debut; Radio Saves Missionaries; Australian Stars

NUMBERS
11 and 12

OFFICIAL BALLOT

Announcers' Contest

RADIO DIGEST FOURTH ANNUAL GOLD CUP AWARD

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

Please credit this ballot to:

..... of Station.....
 (Announcer's Name) (Call Letters)
 Signed.....
 Address.....
 City..... State.....

8-1-15-27

Pat Barnes, WHT, Leads Cup Race

Fans Eliminate All But Twenty from
160 Nominations—Uncle
Joe Second

Who will win the Fourth Annual Radio
Digest Gold Cup Award?

Pat Barnes of WHT, Chicago, is leading
the race to be acclaimed the world's most
popular broadcast announcer.

Over 160 names were submitted in the
nominations. An avalanche of votes fol-
lowed the call for ballots to eliminate all
but twenty. Pat Barnes, who won the
1926 silver cup, will find here that his
fans are determined to get a better start
this year and have sent in 5,921 votes,
which include the bonuses allowed for
accumulated ballots.

Uncle Joe Faassen of KSO, Henry Field
of KFNF and Dean Cole were alternately
leading as the checking sheets began to
show up with the "five and tally" during
the count. It looks like a close race be-
tween the leaders. And there always is
the possibility that a dark horse may sud-
denly forge to the lead from some of the
strong Eastern stations.

One More Ballot

One more ballot will appear in the Sep-
tember issue. And then comes the big
count. The Radio Digest annual gold cup
is one of the most coveted prizes in the
broadcast world. It is fashioned in the
shape of a microphone and presented to
the announcer whose friends send in the
greatest number of ballots as shown at
the top of this page.

Owing to the fact that this summer the
Radio Digest combined the monthly issues
of July 1-15, and August 1-15, these two
ballots count the same as four.

If you have a favorite announcer and
would like to do him a great honor, help
him to win the Gold Cup for 1927. The
last chance to vote will be with the ballot
that appears in the September issue; don't
fail to get it and add to the ones you
already have.

Gold Cup Finals

1. Pat Barnes, WHT.....5921
2. Uncle Joe Faassen, KSO.....5772
3. Henry Field, KFNF.....5680
4. Dean Cole, WHO.....5464
5. Bill Hay, WGN.....4336
6. Lester Palmer, WOW.....4301
7. Peter MacArthur, WOC.....4279
8. Milton Cross, WJZ.....3615
9. Gayle Grubb (Gloomy Gus), KFAB.....3291
10. A. S. Kyne, KMMJ.....2940
11. Edgar L. Hill, WLS.....2717
12. Phillips Carlin, WEAJ.....2456
13. Norman Brokenshire, WPG.....2413
14. Carl Menzer, WSUI.....2325
15. D. D. Richards, WLS.....1848
16. Hired Hand, WJAP.....1737
17. Clyde R. Randall, WSMB.....1720
18. Quin Ryan, WGN.....1699
19. C. D. Tomp, WCN.....1536
20. E. L. Tyson, WWJ.....1483

Following are the leading Canadian an-
nouncers who had votes of more than 100:

1. Billy Ward, CJRM.....315
2. Andy Ryan, CNRO.....264
3. G. A. Wright, CNRV.....257
4. R. H. Combs, CKNC.....135
5. H. P. Rutherford, CJGC.....111

Bosch Entertains Dealers

NEW YORK.—Over 500 Radio dealers of
the metropolitan district of New York
journeyed with their families to Briarcliff
Lodge for an outing as guests of the
American Bosch Magneto corporation. The
motor cavalcade consisting of busses and
private cars presented a merry spectacle,
probably the largest event of its kind ever
held in connection with the Radio industry.
A typical plebe day had been arranged
with novelty races, golf, tennis, swimming
events and baseball. Those less strenu-
ously inclined enjoyed dancing in the
Casino from 4 until 6.

GERTRUDE LANG TO STAR ON BROADWAY

GERTRUDE LANG, the demure lit-
tle miss on the Radio Digest cover
this August day is none other than the
very Gertrude Lang of Roxy's gang.
Sounds almost poetic, doesn't it?

Little Gertrude Lang
Oh how she sang!
Gertrude Lang of Roxy's Gang
Oh how she sang!
Anyway, she sang so good from WJZ
and affiliated stations of the National
Broadcasting company that a great
producer said she was good enough to
feature in the new musical comedy,
Half-A-Widow.

KTNT Receives Many Visitors at Muscatine

Crowds Curious to See Mark
Twain's River Haunts

In describing a recent KTNT visiting
day, of a Sunday afternoon, Mr. N. Baker,
the owner and manager, sends Radio
Digest the following report:

"Over 16,000 visitors called at Station
KTNT between 8 o'clock in the morning
and 6 o'clock in the evening. The station
is located on one of the highest bluffs in
the city of Muscatine on the edge of the
Mississippi river, towering 165 feet above
the water level, and is located just ten
blocks from the park of the city.

"The grounds comprise practically two
blocks square on top of the hill. Auto-
mobiles were parked on both sides of all
the main streets and side streets for prac-
tically a mile from the station. Motorists
came from as far as St. Louis and Min-
nesota in answer to the station's special
invitation to come for a visit and to be-
hold the view from the lookout point.

"This is a point facing the river on the
station grounds where Mark Twain oft-
times sat and where he undoubtedly
obtained the inspiration of his graphic
description of the beautiful sunset at Mus-
catine, Ia. The great humorist at one
time worked on the local Muscatine paper
and fished along the river's edge at the
site of KTNT.

"Over seven truck loads of refreshments
were served to the hungry guests on this
pleasant visiting day."

Broadcast Talent Wanted

WASHINGTON.—Robert L. Buell, U. S.
vice-consul at Calcutta, reports that the
Indian Broadcasting company is advertis-
ing for broadcast artists for stations at
Calcutta, Bombay and Madras.

SHORT WAVES

By Marcella

WHO Announcer Against Permanent
Waves; Ralph Prefers Brass Rivets;
Mischievous-Eyed Bobby; Ed Roh
Builds Ships; WSUI Elaine Also Fair.

CAN YOU imagine anyone, girls, who
would hate curly hair? When I think
how expensive waves are and how
many one needs in the summer! Then this
Jaek Whitney of WHO comes in here with
the loveliest waves you ever saw and he
hates them. His father, who came in with
Jaek, told me so. He says the WHO sheik
does everything to get rid of his curls.
Anyway, Jaek's awfully nice. It seems he
was touring the Radio stations and visit-
ing important people and, of course, Mar-
cella. And, he knows everything about
Radio, absolutely everything.

Miss West Milton, I waited a whole
month for the information about Ralph
Hilburton of WLW and might be waiting
yet, but Miss Giddings, former-
ly of WBBM, went down to Cincinnati to work for the
Crosley station and found my
letter. Here's her answer. "Ralph Hilburton,
one of the staff announcers
of Crosley, WLW, can be
found on the air every morn-
ing from 10 to 11 a. m. He

announces at other times as well, but the
morning program is his own—and the let-
ters from feminine admirers of the station
indicate that they are not at all averse to
hearing his voice. Marcella will be glad
to know that he prefers 'em blonde. He
also prefers them put together with brass
rivets, which, as he informs the unenlight-
ened publicity department, means that
they must be beautiful. Ralph himself has
brown eyes—large brown eyes—and curly
black hair. He's young, and, best of all for
the evil designs of Marcella, unmarried.
His principal worry is house hunting, and
his present ambition is to find an apart-
ment that can be completely furnished
with his pair of antique candle scones, a
quantity of books and an end table." I'll
bet we'll get an announcement one of these
days.

W. H. Wood, about whom South Rich-
mond asks, is the most modest and retiring
man I ever met with by mail. Listen to
what he says. "As your letter states that
a young lady is inquiring, I suppose the
most appropriate way to start is to say
that I am free, single, disengaged. My
complexion belongs to the brunette class
with dark hair and eyes. I won't go into
details in regard to my features, because
if I did this young lady would never tune
in on WMBG again. (You can't see by
Radio, you know.) Whenever I talk to the
young ladies in person, they all seem to
have a hurried engagement somewhere,
but when I'm in front of Mike I shine, that
is, for a while anyhow, until television
comes in. If a young lady ever falls for
me, it will be a case of love at first sight,
because if she ever took a second look I'd
be ruined." Can you imagine anyone like
that? Please, please, South Richmond, run
up to WMBG and see what W. H. really
looks like and write me a very private
letter.

It has just been too hot to stay in the
office these days. On one of the hottest,
when Marcella was kicking a mean leg in

Lake Michigan, I came
Bobby Brown. Now wasn't
that too bad, Bob and Bob-
by? However, I got this
much description. He is
of medium height, with light
hair and blue eyes—the most
mischievous and also flirta-
tious seen in the office for a
long time. He was bound to
see me and, of course, I was out. Do you
know, you two lads, that Mr. Brown has
been a Radio artist for almost five years?
Way back when WDAP was operating, he
began. Then surely you remember him as
one of those roguish gloom chasers of
KYW. After that he was so popular he
went on a theatrical tour and only reported
back last spring to WGES. I have it on
good authority that he does not look his
twenty-nine years. But that is easily ex-
plained—he is happily married. No, no
children.

Oh! Patricia, you have me all on tiptoe
to know the secret you speak about in your
last letter. Write me just as soon as you
can. Don't tell me you have fallen in love
with some announcer and are just about
to marry him? Before you do, here's the
answer to your question about Arthur
Fiddler of WHAS. "Sir Arthur," "The
Canary," "Vest Pocket Edition" as his
Radio friends have dubbed him, may be
only 5 feet 2 1/4 inches tall, but he is very
potent. Witness the many invisible friends
he has who have admired his baritone
voice. He is another one of the blondes,
and more important—a bachelor. But he's
so terribly intellectual, studying law, phil-
osophy and religion. Where'd he find a
(Continued on page 4)

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Looking Ahead

Come to Our Party; Radio Digest will come to you next month all dressed up in colors and fine paper stock. Just had to do it, been growing so fast we had to get new clothes and take our position in the high class magazine field. Oh, do you know we have a certified circulation net of 131,228, as compared to 94,821 a year ago? Yes, sir—see our September issue!

McNamee's Name Woven in History, an intimate close-up view of the famous 'New York' announcer who has "vocalized the vision" for millions of listeners in all parts of the Western World. See the story in our Big September Radio Digest.

News for Set Builders and Technical Bugs—Radio Digest is going to run special articles of interest to those who are intrigued by the "what-makes-it-work" phase of Radio. Many readers will be interested in this "Looking Ahead" announce-ment.

Special Articles by Famous Personages—arrangements have already been made to publish a series of contributions by men and women who have become renowned in the realm of Radio. See the new Radio Digest.

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

Newsstands Don't Always
Have One Left

WHEN YOU WANT

Radio Digest

YOU WANT IT!

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lars (Four Dollars for One Year's Subscription
to Radio Digest, Illustrated.)

Name.....

Address.....

City.....State.....

COLUMBIA LAUNCHES RIVAL CHAIN

NEW TRANSMISSION ELIMINATES CODES

MARCONI MAN DEVELOPS FACSIMILE RECEPTION

Contemplates Sending Complete Newspaper Pages Across Ocean by Radio

(By Radio Digest Staff Correspondent)

LONDON.—Complete revolution in the transmission of telegraph messages, rendering the dot and dash code obsolete, is promised as the result of a new Radio device now being perfected in the Marconi laboratories at Chelmsford, England.

It is expected that within a short time the system will be perfected whereby whole newspaper pages may be instantly rendered in facsimile from one side of the ocean to the other.

Already the effect has been achieved by G. M. Wright, a Marconi company research worker, over a distance of a few miles. So successful have been the results from this experimental stage that the work is now being rushed to put it through on a much larger scale. The details have been held in great secrecy, and it was only with difficulty that the Radio Digest correspondent has been able to obtain this much information. The experiments have been conducted over a period of 18 months.

Revolutionize Telegraphy

The system is declared easily adaptable to the present Radio, telegraph and telephone lines and will doubtless come into world-wide use as soon as the process and production have been perfected to make such an adaptation possible.

Those who have witnessed operations of the new Marconi device describe the results "amazing!" The person preparing the message conveys the message as he writes without second handling. His own handwriting is transmitted instantly to the distant receiving station and mechanically recorded in facsimile. It has been pointed out that an observer in an airplane during a war operation would be able to make notes or sketches of enemy activity, and they would be transmitted automatically to headquarters without his having to tap out Morse or speak by telephone—as simple as the automatic writing machines used in hotels.

Fingerprints of a suspected person arrested in some distant city would no sooner be taken than they were being studied at police headquarters. The fashions of Paris would automatically be broadcast.

Boon to Newspapers

Even more remarkable are the possibilities with reference to newspaper production. Tests that have been made show that in the simplest way each page can be flashed from one office to another, which means we are within reach of the time when London papers can be flashed across to New York and New York papers to London and reproduced regularly as an ordinary edition for those cities.

As pictures can be transmitted in the same way, noteworthy events in various parts of the world would be recorded photographically from far distant points. Radio pictures are already possible, of course, but the new system promises through its speed and clarity to supersede all others. The tests over short distances have been so successful that no doubt is entertained of the system being extended over great distances in a short time.

U.S. Radio Goods Best in Antipodes

New Zealanders Prefer Appearance and Efficiency of American Receivers to British

WASHINGTON.—American Radio apparatus obtained the first foothold in New Zealand and continues to hold sway in spite of the surge of British made goods to supersede it. The London Times points this out by saying:

"American material and American ideas dominate the wireless community, and they are entrenched behind a margin of prices and a distinct preference for the appearance of the American product.

"It is a regrettable fact that dealers who have endeavored to foster the use of British Radio goods have found that receivers they have imported do not suit the buyers; in the past, at all events, they have been found lacking in selectivity, a point in which the average American receiver is far superior.

"The characteristic appearance of the 'all-enclosed' American set also appeals to the New Zealand enthusiast, and the average home constructor almost invariably chooses that type of construction."

BAIRD MARKETS HIS TELERADIO FOR \$45

(Special Radio Digest Correspondence)

LONDON.—A telerradio receiving set, by which broadcasting can be heard and seen simultaneously, will cost \$45. The first public demonstration of this perfectly synchronized set, developed by J. L. Baird, the young Scottish inventor, will be given in London shortly.

Transmit Fan Messages

With a record of successful delivery of Radio messages to Europe, Africa, Australia, Asia and Honolulu, the Chicago Radio Traffic association has inaugurated a summer schedule of broadcast in cooperation with the Radio department of The Chicago Daily News.

The amateurs make no charge for the service, and while delivery is not guaranteed, every attempt is made to deliver the message to the proper destination. Messages may be mailed or delivered in person to The Daily News Radio department for handling.

IMPORTANT NOTICE TO OUR READERS

IN keeping with the rapid advance in broadcasting and facing the most marvelous season for reception and programs, Radio Digest will spend thousands of dollars in improving the magazine. Beginning September first it will be issued monthly in a bright new color cover with forty-eight pages or more crowded with interesting and absorbing material about Radio.

The progress of the station directors in arranging their schedules far enough in advance permits us in the new Radio Digest, in its bright new dress on regular magazine paper throughout, to publish complete programs for the month of September—profusely illustrated with pictures of the broadcast artists. The new arrangement will also give us the opportunity of publishing each month a COMPLETE CALL BOOK AND LOG which, heretofore, has appeared serially in six numbers. All the latest changes in wave lengths and power by the Radio-Commission will be given each issue. Schedules of operation, including slogans, announcers' names, etc., will be published in this OFFICIAL CALL BOOK AND LOG which will appear in its entirety in each monthly issue. By printing on the latest and fastest rotary presses and by paying thousands of dollars for express instead of the cheaper and slower freight, permitting the magazine to go to press only ten days before it appears on the news stands, the new Radio Digest will be able to furnish you the latest revised and most up-to-date directory of stations and their time schedules of operation that is published. Our now famous "CHALLENGE" of a dollar for every mistake will still hold good—thus proving it the best CALL BOOK AND LOG on the market at any price.

The new big September Radio Digest, in addition to the regular features, news and views of the stations and artists, will contain a review of the new sets, accessories and the latest circuits for the set builders. The index program schedules for Women, Farmers, Dancers, Football Devotees, etc., together with the popular "Evening at Home With the Listener In" Table revised and in improved form, will be continued as a part of the newer and better Radio Digest.

The first monthly issue of Radio Digest, the September number, will appear on the news stands in the United States and Canada, Wednesday, August 31. Mail subscribers, as usual, will receive their copies in advance. The news stand price will be twenty-five cents. The subscription price by mail will remain the same—three dollars yearly in the United States and possessions and Canada. Foreign postage will be one dollar additional.

E. C. RAYNER,
Publisher Radio Digest.

"Director Wanted for Radio Dept.,"—U. S.

Department of Agriculture Needs
Broadcast Chief

WASHINGTON.—Uncle Sam is looking for a Radio director. He has his eye on the State agricultural colleges, probably, because the job requires a person capable of taking hold of the Radio service of the department of agriculture.

Following is the notice:
"The United States civil service commission announces a vacancy in the position of chief of Radio service of the department of agriculture, Washington, D. C. Applications for the position will be received by the commission until August 9. The entrance salary is \$3,800 a year. Advancement depends upon individual efficiency, increased usefulness, and the occurrence of vacancies in higher positions.

Outline of Duties

"The duties will be to supervise the distribution by Radio of educational information from the department of agriculture. The chief of the Radio service will be expected to make and execute comprehensive plans for the educational use of Radio by all offices and bureaus of the department, and to arrange for the preparation of material and assist in its adaptation to the needs of broadcasting.

"Competitors will not be required to report for examination at any place, but will be rated on their education and experience, and on a thesis and published manuscripts or lectures.

"Full information may be obtained from the United States civil service commission, Washington, D. C., or from the secretary of the United States civil service board of examiners at the post office or customhouse in any city."

Mexico Relays KDKA

MEXICO CITY. (R. D. F.)—Mexico City is enjoying its first rebroadcasting programs from a United States station. For several weeks the radio department of the Westinghouse Electric International company here has been picking up the 62.5-meter waves from Station KDKA, Pittsburgh, and sending them out with sufficient power to be heard within a radius of 50 to 75 miles.

Although there are several high-grade stations in Mexico City, none of them has ever attempted rebroadcasting. Despite the three-hour difference in time between Pittsburgh and the federal district capital, Mexico City listeners are able to get an hour of KDKA's evening programs and on Tuesday and Friday three and four hours with the late programs.

Celler Still Peeved

NEW YORK.—Emanuel Celler, representative to Congress from New York, is still disgruntled because WEAJ "tampered" with his speech, which was considered derogatory to the great national hero, George Washington. Celler has drawn up six points on which he believes he has a basis for the government to hire censors to compel broadcasters to open their stations to unrestricted speech. A censor bureau would create a great number of political jobs.

TO COMMAND WORLD WIDE FACILITIES

Phonograph Co. Broadcast
System Will Cover Nation
East of Rocky Mountains

First Program on Sept. 4

Inaugurates New Ideas in Presenting
Syndicate Programs—
Sixteen Stations Signed Up

By Verne W. Bailey
Special to Radio Digest

NEW YORK.—A new type of radio hour continuity is being developed, contracts are being signed with musical and entertainment celebrities, foreign offices have been opened, and the task of actual program testing is well under way in the new Columbia Broadcasting System's preparation for its broadcasting schedule, which will start Sunday, September 4th.

The Columbia chain includes sixteen carefully selected Radio stations at strategic points, insuring reliable reception in practically every nook and corner of the United States east of the Rocky mountains.

The selection of the cities and stations is the result of a two-year survey, which overcame the effect of blind spots which shut out whole districts from hearing certain stations close at hand, and also which took into account the queer tricks of heterodyning.

The Columbia Broadcasting System is under the direct control of the Columbia Phonograph company, of which Louis Sterling and H. C. Cox are, respectively, chairman of the board and president.

Established on Big Scale

The Columbia Broadcasting System's offices have been established in the entire thirtieth floor of the new Paramount building, Times Square, New York. Program builders, technical experts, and others are busily completing the details for the actual transmission of the programs over the chain, which will start in just a little more than thirty days.

Major J. Andrew White, known far and wide among Radio fans for his vivid fight and sporting event broadcasts, but better known in Radio inner circles as a man who has stored away in his mind a vast wealth of technical Radio lore, and a bag of Radio technical tricks that are only his own, is in charge of the technical affairs of the Columbia Broadcasting System.

Major White says that with the first program there will be an attempt to develop a new type of Radio showmanship, which will include, among other things, the development of a technique which will put by means of sound, the color and mood-inspiring background which in other forms of entertainment have heretofore been supplied visually.

Arthur Judson, who manages a large list of American musical celebrities, including Challaph, Martinelli, Cortot and others, and who achieved a part of his fame with his management of the Philadelphia and Philharmonic orchestras, is in charge of the programs of the Columbia chain.

Mr. Judson, with his highly perfected organization for placing foreign singers on their American tours, and with his handling of the affairs of so many American musical activities, brings to the Columbia chain a priceless musical understanding, and a number of opportunities to accomplish things impossible except in an affiliation of this sort.

Each of the stations in the chain was selected not only with reference to its position in the network and the territory in which it is reliably heard, but also because of perfect technical equipment, following and good will, which has been built up in every case by conscientious service in its respective area.

The stations in the network, in addition to WOR, are: WEAN, Providence; WNAC, Boston; WKRC, Cincinnati; WAIU, Columbus; WADC, Akron; WMAQ, Chicago; KMOX, St. Louis; WMAK, Lockport; WGHP, Detroit; KOIL, Council Bluffs; WCAO, Baltimore; WFBL, Syracuse; WCAU, Philadelphia, and WJAS, Pittsburgh.

Radio Set Saves Whites in China

Missionary Writes of Warnings Being Broadcast as Wires and Mail Fail in War Zone

Press reports of the disturbance in China frequently mentioned that the Radio was used to warn Caucasians in the interior to leave for the protection of the American and European compounds. Few specific instances of how these messages were received have been reported. However, one letter received by Mr. and Mrs. Q. L. Clark of Clarkton, N. C., relates the harrowing experiences of Mr. and Mrs. J. E. Wayland, who visited in Clarkton last summer, which was published in the Wilmington Star:

"Little did we dream when we left you last summer," writes Mr. Wayland from Tusan, Korea, "that before another summer rolled around we would be in the land of Korea, or Chosin, as the Japanese call it. . . . Let me go back to Saturday, the 26th of March. We heard over the Radio that Taichon Station and Kingyan Station were ordered to be on the Yangtse river bank by daylight the next morning. So we pictured Taylor, who had so lately left our station for Taichon, hurriedly traveling across country that night in order to be ready to be picked up by gunboat No. 345.

News by Air

"We had heard of the Nanking outrages by Radio and we had made arrangements in preparation for messages ordering us out, but no message came. We know now that the telegraphic communications between our station and the south had been cut off. We didn't like to leave our station until we heard something definite from our consul. Nothing was heard on Sunday nor Monday, but we could hear by Radio all kinds of alarming messages and hurry calls ordering other foreigners out of the interior. So naturally we were vainly expecting some order and on Thursday there came a regular letter over the Radio to the Southern Presbyterians listening in at Tsingkiangpu:

Orders by Radio

"You are ordered to evacuate immediately, on advice of Gen. Cheng, Sutsien, Halchan, Hsuehoner, Nan Hsueh and Hwai Qun. Advise try Hsuehoner, the Yanchow exit uncertain." So you see you can imagine what a plight we were in. We immediately began to settle accounts at schools and hospitals and made arrangements for boats and packed hurriedly, leaving all our possessions behind not knowing whether we would see them again.

Child Takes Toys

"I took my college and seminary diplomas out of their frames, we got our silver and linen and most of our clothes packed into two steamer trunks. It was pathetic to see little Cora Antrim choosing out of her toys a few that she held dear and asking that we take them.

"All the white Chinese were coming in to say farewell. I went to the Bank of China and the manager let us have all the money we needed in exchange for Shanghai checks, escorted me to the outside door. I said, 'Don't be polite,' and he said, 'I don't know whether I shall ever be able to do it again.' The Chinese were afraid enough before we left, but when the foreigners left, well, they knew there was something up.

Cross Battle Area

"We got on some little tiny boats and got our baggage aboard and were going to make our trip through battle territory. We had to take money enough to pay our way to we knew not where. Our first section was composed of Dr. Woodbridge's family, the three single ladies, Miss Lucy Sprunt Hall and Miss Jess and the Waylands.

"When we stopped for the night we were asked if we wished a guard of soldiers. Well, about 12 o'clock, we heard the shots begin to ring out on both sides of our boat. Poor Rose put her diamond on her toe and everybody, I suppose, felt that we were being attacked by bandits.

Tremble in Beds

"We lay in our beds with our knees literally shaking against each other momentarily expecting to be robbed, but time passed by and we finally knew that it was the guards firing their guns to let the robbers know they were on guard.

"We got to within about ten miles of Halchon on Saturday night and received a telegram to rush our baggage on to the place where we took a steamer for Tsingtao. After we started and had gotten about a mile we were told that autos from Halchon were waiting to take us there (we have a station there). We got to the McLaughlin's home and spent Sunday and Monday.

Search for Boat

"In the afternoon Mr. Grafton and I climbed the mountain and looked out upon the river with our field glasses to see if the steamer which was due had arrived at the port some ten miles away. We didn't see any signs of it and were sure that it would not get in, so we prepared to spend another night in Halchow, but about eight o'clock word came that it was in and, as the military were trying to commandeer it, we decided to let the three single ladies and two of us men go down and get in and try to hold it. This we did and am glad to say after quite a bit of palaver got by with it, and the next day the families got on.

AWARD CASH AND SET TO SICK FAN

Sylvia Murphy Thinks Second Whozit Combination Prize from WLW Is Just the Thing

Whozit prizes continue to go into well deserving hands as indicated by the letters of acknowledgment. Sylvia May Murphy, who received a check from Radio Digest to make up the balance of difference due her in excess of the market price of the Crosley set which she won from WLW, writes as follows:

"Received your letter enclosing check for \$133.25 for the second prize that has been awarded me by the Radio Digest through Station WLW, Crosley Radio Corporation. I have also received the beautiful console from WLW station, and I am very thankful for these gifts.

"I will make good use of your check, and as an invalid, I will enjoy the Radio very much while I am lying in bed."

Miss Murphy lives on Rural Route No. 3, Hamilton, Ohio.

Several other interesting letters of acknowledgment were received. Those who will receive their prizes in August are as follows:

Station KMOX, St. Louis, Mo.

First Prize, \$500.00 Gold—Mrs. Charles L. Lovesey, 645 Tuxedo Blvd., Webster Grove, Mo.

Second Prize, \$300.00 Valley Tone Console—Elmer J. Wohlgenuth, 6009 Odell Ave., St. Louis, Mo.

Third Prize, \$200.00 Silver Fox Choker—Dorothy Pauline Finley, 1209 W. 17th St., Topeka, Kan.

Station WSM, Nashville, Tenn.

First Prize, \$500.00 Gold—Mary Bright Douglass, 1144 Greenfield Ave., Nashville, Tenn.

Second Prize, Zenith Set—Emma Mellin, 1014 Sixteenth Ave., Moline, Ill.

Third Prize, Zenith Set—J. G. Broderick, 141 Herkimer St., Hamilton, Kan.

Station KJR, Seattle, Wash.

First Prize, \$500.00 Gold—Mrs. Louise Baker, 185 Massachusetts Ave., Lexington, Mass.

Second Prize, \$300.00 Federal Radio Set—Charles M. Bellman, 1014 South 41st St., Tacoma, Wash.

Third Prize, \$200.00 Howard Receiver—Vida A. Page, Mukato, Kan.

Another list of prize winners will be published in September.

"We had thirty-two, including children, and were packed like sardines, but the purser was so nice trying to get us all that we couldn't help but feel happy and grateful."

SHORT WAVES

By Marcella

(Continued from page 2)

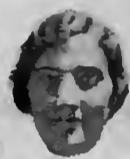
girl who could talk to him? He must be kind of sweet, though, because he says his ambition is to scatter sunshine. Now, Patricia, if you don't know where Gene Rouse is by this time, I'm not going to tell you. Bobby Griffin was at WBCN, but is not on the air at present.

Kit, Hilt and Miss seem more than interested in this pleasing songster Ed Roh of WREO, Lansing. Let Eddie speak for himself. "What do I look like? I might say that the picture is self-descriptive. You, perhaps, have heard the saying, 'A face that only mother could love.' That seems to cover my case. I must say that I am five feet eleven inches tall, weighing one hundred and sixty-eight

pounds, have a dark complexion giving way to brown hair and dark brown eyes. I feel quite fortunate in being single, having seen twenty-three years on Mother Earth. I do nothing but sing (making a terrible attempt). I play at four or five instruments, but never publicly. I am intensely interested in athletics and indulge frequently. I enjoy outings, love to fish and also play a game of golf occasionally. One of my favorite pastimes is building miniature model ships of which I have made up to and including ten sailed affairs. My next ship is going to be a thirty-nine sailed model."

I think a lot of fellows are bashful about writing in, Bob. I am glad you wrote me and please do so again. Here is the low-down on Elaine Bair, organist at WSUI. Carl Menzer says there is no need to be jealous of the announcer, because he does not happen to be the lucky man. No, she's not married. Carl says she is an exceptionally pretty girl whose pictures do not flatter her; just the right height, five feet four inches, and the right age, nineteen or twenty years old. She has the snuggest brown eyes in the world. Her sunny disposition is certainly reflected in her playing, because ninety-five per cent of all the letters received at WSUI are for her.

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



WOMAN'S PROGRAM INDEX (Daily Unless Indicated)

Household Economics, Women's Hour, Etc.

Atlantic	Eastern	Central	Mountain	Pacific
9:10 a. m.	8:10	7:10	6:10	5:10
WLS (344.6m-870kc), Home question box.				
10:30	9:30	8:30	7:30	6:30
WIP (508.2m-590kc), Meau, Tues, Thurs, Sat.				
WGBS (349m-860kc)				
10:30	9:30	8:30	7:30	6:30
WTAG (1283.3m-1040kc), ex Sat.				
WWJ (374.8m-800kc), Tonight's dinner.				
10:45	9:45	8:45	7:45	6:45
WBZ (333.1m-900kc), Radio Chef.				
11	10	9	8	7
WBAR (270.1m-1110kc), Modern Housekeeping hour; less work in the American home.				
WCSH (361.2m-830kc), ex Sat.				
WFAF (491.5m-610kc)				
WLAN (428.3m-700kc), Woman's hour.				
11:15	10:15	9:15	8:15	7:15
KDKA (315.6m-950kc), Homekeepers' period, Tues, Thurs.				
WCAE (516.9m-580kc), Household hints, Ann Page.				
11:30	10:30	9:30	8:30	7:30
WJF (422.3m-710kc), National Radio Home-Makers' club.				
WRC (468.5m-640kc), Mon.				
12	11	10	9	8
WENH (365.6m-820kc), Prudence Penny.				
WMAQ (447.5m-670kc), Calumet talk.				
12:35	11:35	10:35	9:35	8:35
KYW (1526m-570kc), Table talk.				
12:45	11:45	10:45	9:45	8:45
WHAI (293.9m-1020kc)				
WMAK (545m-550kc) Food talk.				
1:30	12:30	11:30	10:30	9:30
KFWI (267.7m-120kc)				
KYA (309.1m-970kc), Shopping service, Mon, Fri.				
2	1	12	11	10
KGW (491.5m-610kc), Household helps.				
KJR (348.6m-860kc), Prudence Penny.				
KPI (422.8m-710kc), Tues, Thurs.				
KTHS (340.7m-880kc)				
2:05	1:05	12:05	11:05	10:05
WJZ (454.3m-660kc), Daily menu, Mon, Fri.				
2:20	1:20	12:20	11:20	10:20
KFI (468.5m-640kc), Mon, Wed, Fri.				
WSM (340.7m-880kc)				
2:30	1:30	12:30	11:30	10:30
KEN (239.9m-1250kc)				
KOMO (305.9m-980kc), Totem Cooking school.				
WGY (379.5m-790kc), Economics talk.				
2:40	1:40	12:40	11:40	10:40
KJR (348.6m-860kc), Shopping service.				
3	2	1	12	11
KOIN (319m-940kc), Housewives' hour.				
WGNP (319m-940kc), Home hour.				
3:05	2:05	1:05	12:05	11:05
KJR (348.6m-860kc), Prudence Penny.				
3:15	2:15	1:15	12:15	11:15
KOIL (277.6m-1080kc), Shoppers' aid.				

Atlantic	Eastern	Central	Mountain	Pacific
3:30 p. m.	2:30	1:30	12:30	11:30
KPNF (370.1m-1110kc), Kitchen Klatter.				
WUY (379.5m-790kc), Cooking lesson, Mon, Fri.				
4:15	3:15	2:15	1:15	12:15
WIP (508.2m-590kc), Market hints for housewives, menus, Mon, Tues, Fri.				
5	4	3	2	1
WGC (352.7m-850kc), Aunt Jane.				
6	5	4	3	2
KFOA (447.5m-670kc), Daily ex Sun, Mon.				
7	6	5	4	3
KOA (325.9m-920kc), Question box, culinary hints, Tues, Fri.				
9:45	8:45	7:45	6:45	5:45
WHI (319m-940kc), Home economics.				
10:30	9:30	8:30	7:30	6:30
KOB (394.5m-760kc), Housekeepers' chat, Mon.				

"Aunt Sammy"

Atlantic	Eastern	Central	Mountain	Pacific
11 a. m.	10	9	8	7
WICA (370.2m-810kc)				
11:30	10:30	9:30	8:30	7:30
WNSR (361.2m-830kc), WHO (535.4m-560kc).				
11:50	10:50	9:50	8:50	7:50
WMC (516.9m-580kc), Mon, Thurs.				
12 n.	11	10	9	8
WEO (282.8m-1060kc), WOS (394.5m-760kc).				
WES (352.7m-850kc)				
WNSB (475.9m-630kc)				
12:30 p. m.	11:30	10:30	9:30	8:30
WOS (394.5m-760kc)				
12:40	11:40	10:40	9:40	8:40
WAMD (241.8m-1230kc)				
1	12	11	10	9
KOV (352.7m-850kc), Mon, Wed, Fri.				
KTHS (384.4m-770kc)				
WAMD (226m-1330kc)				
WRVA (254.1m-1180kc), Wed.				
KQW (296.9m-1010kc)				
2:45	1:45	12:45	11:45	10:45
WDAF (370.2m-810kc)				
3	2	1	12	11
KOIL (277.6m-1080kc)				
WASH (256.3m-1170kc)				
4:30	3:30	2:30	1:30	12:30
WIK (265.3m-1130kc)				
5	4	3	2	1
WRCN (283.3m-1040kc)				
WOC (352.7m-850kc)				
5:30	4:30	3:30	2:30	1:30
KOIL (277.6m-1080kc)				
WOS (468.5m-640kc), Thurs.				
7:15	6:15	5:15	4:15	3:15
WBZ (333.1m-900kc), Wed.				
7:30	6:30	5:30	4:30	3:30
KMA (270.1m-1110kc)				

Women's Clubs

Atlantic	Eastern	Central	Mountain	Pacific
10:30 a. m.	9:30	8:30	7:30	6:30
WNAE (516.9m-580kc), Women's club.				
WHT (416.4m-720kc), Women's club.				
7 p. m.	6	5	4	3
KNX (336.9m-890kc), L. A. Dist. Federation Women's clubs, Fri.				

Fashions and Sewing

Atlantic	Eastern	Central	Mountain	Pacific
2:20 p. m.	1:20	12:20	11:20	10:20
WJZ (454.3m-660kc), "Personality in Dress," Fri.				
2:35	1:35	12:35	11:35	10:35
KIO (422.3m-710kc), Fashion critic, Fri.				
6	5	4	3	2
WOS (468.5m-640kc), Wed.				
7:45	6:45	5:45	4:45	3:45
KOA (325.9m-920kc), Fashion review, Tues.				

Health and Beauty

Atlantic	Eastern	Central	Mountain	Pacific
10:15 a. m.	9:15	8:15	7:15	6:15
WCAE (516.9m-580kc), Health talk.				
10:30	9:30	8:30	7:30	6:30
WNAE (265.3m-1130kc), Care of the hair.				
WTAG (516.9m-580kc), Talk to mothers, Thurs.				
11	10	9	8	7
WEEI (447.5m-670kc), Mon, Thurs, lesson in beauty.				
11:45	10:45	9:45	8:45	7:45
WTAM (399.8m-750kc), Tues.				
2:30 p. m.	1:30	12:30	11:30	10:30
KFON (241.8m-1240kc), Physiology of beauty.				
KVA (288.3m-1040kc), Diet and Health, Tues.				
3:30	2:30	1:30	12:30	11:30
KJR (348.6m-860kc), Health talk.				
4	3	2	1	12
WENH (365.6m-820kc), Health talk, Dr. Bunsden.				
4:40	3:40	2:40	1:40	12:40
KGA (260.7m-1150kc), Dietetic talk, Wed.				
9:20	8:20	7:20	6:20	5:20
KGHZ (212.6m-1410kc), Care of the hair, Mon, Wed, Fri.				
9:30	8:30	7:30	6:30	5:30
WRRL (232.4m-1290kc), WEO (282.8m-1060kc) Care of the hair, Tues, Thurs, Sat.				
KLZ (267.7m-1120kc), Care of the hair, Mon, Wed, and Fri.				
11	10	9	8	7
WHD (225.4m-1330kc), Care of the hair, Tues, Thurs.				

AUSTRALIAN RADIO STARS HEARD IN AMERICA



These famous broadcast artists of 3LO have friends in Europe, America and Australia. Left to right: Percy Grainger, concert pianist; Miss Nora Wilcox and Bernard Manning, singers; and Billie Lockwood, singer and story lady.

NATIONAL TO LINK 2LO IN N. Y. CHAIN

ENGLAND AND AMERICA TO EXCHANGE PROGRAMS

Aylesworth Tells Ad Men Problem Is Solved—Will Submit Plan to B. B. C. Soon

DENVER.—With the transatlantic telephone now firmly established on a commercial basis Merlin Hall Aylesworth, president of the National Broadcasting company, presented the logical prospect of a Radio chain hook-up between America and Europe at a meeting of the International Advertising association here.

Sir John Keith, director-general of the British Broadcasting corporation, is expected to attend the ceremonies planned for the formal opening of the new N. B. C. building in New York. A conference has been planned for that time at which the proposal will be made to establish reciprocity programs.

It was pointed out that Europe has much to offer in the way of musical entertainment not available on American soil and America is famous for its innovations that have proved popular in Europe. Besides that, there always will be the appeal of listening in to voices heard across the ocean.

Build Up Signals

Engineers have been working on the problem practically ever since the telephone system has been inaugurated for transatlantic calls. Would the beam signals be strong enough to build up and re-broadcast with reasonable volume and quality? Experiments have been made and the answer is believed to be in the affirmative. Then came the question of the difference in time, and that, too, has been met on a tentative basis, it was stated.

"And now we feel that we have made sufficient progress," said Mr. Aylesworth, "to submit a definite plan of cooperation to the British Broadcasting company. I believe the idea is entirely feasible and that we will be able to come to some sort of a mutual agreement for an exchange of programs."

Radio Helps Build Railroad

SAN FRANCISCO.—"George," the box car poet who contributes now and then in the Indi-Gest column of Radio Digest, would be interested to know that Radio receivers helped tie the railroad bonds between this city and Portland, Ore. Over 70 isolated camps along the \$39,000,000 right of way were equipped with sets, which proved very beneficial to the morale of the workers, who were thus kept in constant touch with the outside world. It is planned to extend this service along other lines.

Coast Show This Month

First of the big Radio shows of the season is announced for San Francisco with the Pacific Radio Show scheduled for the week of August 20th to the 27th. Much stress has been placed on the claim that California has first class Radio reception the year around, and is, therefore, always keenly alive to Radio affairs.

SEVERAL broadcasting stations recently have sent out special programs for listeners in Australia. The fact has aroused considerable interest in America as to what might be heard from an Australian broadcaster. The Broadcasting Company of Australia sends Radio Digest the above pictures and a little description of the artists, all of whom have been heard in America.

At the left is Percy Grainger, noted pianist and composer, who was born at Brighton, Victoria. He recently gave a series of concerts through Australia and was a guest of 3LO at Melbourne. His mother was a brilliant musician and his father an architect of renown. Young Grainger's genius became manifest at the age of 12 and he was sent to Germany for six years of study. He returned to South Australia, where he lived for many years.

Although he distinguished himself in England his greatest triumphs have been scored in America, where he has never failed to fill a musical hall where he was scheduled to appear.

"A Dusty Tramp"

In 1924, unknown to all but his most intimate friends, Mr. Grainger returned to Australia. During his short stay he quite literally carried his swag from Tallim Bend to Keith, 80 miles across the South Australian desert. It was not done from any desire for publicity; he simply walked because he liked walking and because he wanted to visit some relatives and because he wanted to seek inspiration for his compositions in the quiet of the country. A quaint story is told of the suspicion with which this dusty tramp was regarded by the hostess of the small hotel in Tallim Bend and how he played for his country audience on the rickety saloon piano. Since then Grainger has spent another two years in America.

Grainger's works are said to be more frequently performed than those of any other English composer. His famous

"Country Gardens" has become a best seller, of its class, and last year 25,000 copies were sold.

All the money Grainger receives in royalties is banked and spent purely in the interests of music.

The great musician is a fluent and interesting speaker and said that he was delighted by the number of congratulatory letters he received from listeners after his talk from the 3LO Melbourne studio.

(In the center of the panel are Miss Nora Wilcox and Bernard Manning of the Gilbert and Sullivan Opera company, artists familiar to 3LO audiences and perhaps heard by some of the American DX hounds. Our correspondent seems to have overlooked Miss Wilcox in his report.—EDITOR.)

Bernard Manning, who has lately been singing for 2LO, Melbourne, is a principal of the Gilbert and Sullivan Opera company playing at His Majesty's theater. His roles have included Sergeant Merryll in "The Yeoman of the Guard," the Pirate King in "The Pirates of Penzance," the title role in "The Mikado" and Dick Dead-eye in "H. M. S. Pinafore."

Billie Lockwood a Favorite

Had the 3LO director searched the length and breadth of Australia for an artist to give "kiddie" numbers he could not possibly have hit upon anyone better qualified to handle this class of entertainment than little Billie Lockwood (right), the clever young Australian artist who has just returned from a world tour.

Scarcely more than a girl herself, and for this reason having a very lively idea of the sort of things that children love, Miss Lockwood has a fund of little songs and stories tucked away in her wallet that keeps her young listeners tippy-toe, wanting to hear more.

(More will be told of Miss Billie's adventures, in her own words, in a later issue of Radio Digest.)

KFRC Blossoms Forth In New Studios, Power

KFRC, San Francisco, often called the largest little station in America, because of its 50-watt power, became a big leaguer on July 6 when the new Western Electric transmitter was inaugurated with a 24-hour program introduced by Mayor James Rolph, Jr. Studios and station have been moved from the Whitecomb hotel to the new Don Lee building, which is surmounted by two 125-foot steel antenna towers. The two studios are on the mezzanine floor. Both are finished in old Spanish style; the larger is 50 by 28 feet, and the smaller 25 by 18 feet.

The studios are shielded by grounded copper ensing to exclude local electrical interference. The walls are finished with a two-inch coat of acoustic plaster mounted on felt to kill all reverberation. The sound-proofing makes it possible for one orchestra to be playing on the air while another orchestra in the next room is rehearsing. The operator maintains contact with the two studios by telephone. The technical arrangements were designed by Harold G. Perry, staff engineer of KFRC. Balanced programs with "a little of everything to please everybody" is announced as the entertainment policy of the new station, all of the best quality available.

Puts Static to Work

WASHINGTON.—Old Man Static, the curse and bane of Railroad in general, has found a friend in the navy. His rantings and temperamental outbursts are calmly recorded and reported as indicative of certain weather conditions. A report to this effect was recently filed by Lieut. Earl H. Kincaid, who has completed three years of observations aboard the U. S. S. Klitzky. Having found some rule and reason to the inscrutable old tyrant, the lieutenant predicts that the next step will be the invention of apparatus whereby to appease him and thereby escape the penalty of his wrath.

WTMJ, New Milwaukee Call

A new and dominant voice in the central states will be the Milwaukee Journal broadcasting station, WTMJ, scheduled to take the air about August 1. The station is located eight miles from the city limits on Highway 19. The towers are 200 feet high and 500 feet apart. An acre lot is required for the 20,000 feet of heavy copper wire buried underground as a ground to the system. The apparatus is the latest product of the Western Electric. WTMJ replaces the call letters WKAF. The Marquette University station WHAD, formerly allied with the Journal, will continue as an educational broadcaster.

"JIMMY" PETRILLO ASPIRES TO FAME

Czar of Chicago Musicians' Union Named on Committee of State Celebrities

CHICAGO.—Sandwiched into a list of names, including some of the most prominent in the country, who have agreed to serve on the Illinois committee of the Atwater Kent Foundation, is the name of little Jimmy C. Petrillo. Jimmy is the czar who controls all musical activities in Chicago. Visiting troubadors who wish to set up professional business in Chicago must see Jimmy first. Even the police band to march down the streets of Chicago on official reception must get Jimmy Petrillo's permission.

Jimmy forced up the wage scale on the Chicago Symphony orchestra until that organization at this writing is on the verge of dissolution, in fact it may never be heard again unless the excessive demands are modified. A while back new demands were made by Jimmy as the business agent of the musicians' union, which had to be signed by all the theaters in Chicago. It happens there are many small neighborhood picture theaters, unable to afford orchestras, but were trying to get along the best they could with pipe organ music. But Petrillo insisted they should hire orchestras or close up. The larger theaters thought as a matter of justice the small theaters should have their support. The result was that the big theaters found themselves for several days without orchestras.

Czars must be czars and now comes the big job of finding talent for Mr. Kent's laudable prize contest. And that, perhaps, accounts for Mr. Petrillo's name in the glittering list that includes Mrs. Medill McCormick, chairman, widow of the late Senator McCormick and now before the people of the state as the next governor of Illinois; Frank O. Lowden, World War governor of Illinois and possible candidate for President of the United States in 1928; Walter Dill Scott, president of Northwestern University and one of the foremost educators in America; Mrs. Edith Rockefeller McCormick, daughter of John D. Rockefeller and prominent philanthropist, and Bishop E. H. Hughes, nationally famous cleric of Chicago. The committee anticipates some real "fuds" in Illinois.

Waiting List of 300 Ask Station Permits

WASHINGTON.—That there is a long waiting list of those who have filed application for permission to build new broadcasting stations is indicated in a letter from Radio Commissioner O. H. Caldwell to J. R. Vance of the Fellowship Forum of Washington, D. C. After calling attention to the law which specifies that a permit must be obtained before building a station the letter states:

"At the present time the commission has on file some 300 applications for new stations, for which it is unable to find wave lengths. I can, therefore, give you very little encouragement looking toward a wave length in the near future."

QUEEN AND PRINCESS GREET SUBJECTS WORLD OVER FROM AMSTERDAM STUDIOS



FROM the crown of her simple black hat to the soles of her plain low shoes she is "every inch a queen." All of which pertains to the lady sitting before the plain looking microphone in the Amsterdam broadcasting station as shown in the above picture. The lady is Her Majesty, Queen Wilhelmina of Holland. The second lady in simple white wrap standing beside her is her daughter, Princess Juliana. Some of the Pennsylvania cousins may have been listening in when these royal ladies addressed the industrious and home loving subjects of the Netherlands recently.

Farm Crops Grow Fast By Aid of Radio Waves

Bullard Amazed by Man-High Barley at Arlington

HARTFORD, CONN.—There are undeveloped phases of Radio's usefulness to humanity far more important than broadcast entertainment, according to Admiral W. H. G. Bullard, chairman of the federal commission, who addressed students at the Trinity College convocation. He called particular attention to the possibilities of Radio energy in growing agricultural crops.

"This is being tested," he said, "and it has already been shown that high frequency electric waves projected from powerful transmitters have in many instances caused flowers and vegetables to grow quickly, and develop to unusual size.

"Some years ago," he continued, "while I was in charge of the navy's high powered station at Arlington, it became desirable to beautify the ground space under the lofty towers, and as a preliminary step it was decided to plant a crop of barley so it in time could be plowed under to help fertilize the very clayey soil.

To everyone's amazement the crop of barley grew to immense size, and a full grown man would be lost to view when he attempted to walk through it."

It was the admiral's opinion that the time will come when special facilities may be established in agricultural communities to assist in the production of fruit and vegetables by Radio energy. He advised students to consider this future seriously in planning their careers.

(Department of agriculture experts are not agreed that ether waves help vegetation and state that the Arlington case would have to be reproduced where ether waves were absent to prove it).

High School Boy Logs 53 Nations

Station 9DNG Connects Lawrence, Kans., With All Continents—50-Watt Power

LAWRENCE, KANS.—It is no figure of speech that Fergus McKeever, 17-year-old high school senior here, has the world at his beck and call. Fergus is a "ham" with a record for his 50-watt transmitter of acknowledged Radio communications from 53 stations scattered over the well known globe.

Fergus has chatted with an American in Tokyo and kidded an I. W. W. in Siberia. Africa is one of his regular calls. He obtained his license in 1923 and hooked up his own apparatus, which was assigned the call 9DNG. He shoots a 40-meter wave and uses code or phone. When he isn't doing school home work, clerking in a local music store or sending 12,000-mile messages for friends and relatives, he is resting.

In looking back over the hundreds of courtesy messages he has delivered Fergus thinks he got the greatest kick out of a relay when he picked up Edwin Cozzens, a missionary in Camerouns, Africa, and conveyed messages to relatives in California and a bank in Indiana. He also kept in contact with Donald MacMillan while the explorer was splashing around the North Pole in 1925. His best bets are the U. S. destroyers and cruisers scattered over the various oceans. He can always get one when he tries.

Troy Reaches Hollywood

TROY, N. Y.—Better separation of the wave bands of the broadcasting stations of the country by the new federal Radio commission is thought to play a part in reception of programs across the continent in summer daylight from WHAZ at Rensselaer Polytechnic Institute. A letter just received from H. J. McDonald of 1725 North Serrano avenue, Hollywood, California, reports receiving a considerable portion of two programs.

The Troy station, which claims to hold the long distance record, is often heard across the country during the winter season, but has not been reported from the Pacific coast in summer since late June, 1924. Since that time the rapid increase in the number of stations, jumping of wave lengths and increasing power, have created confusion and interference in the air which the Radio commission is now attempting to correct.

BALL PLAYERS VISIT "LITTLE FLOWER"



NOT so long ago a new saint came into the Catholic church firmament and shrines of The Little Flower were established in various parishes. Thousands of miraculous cures from disease are said to be attributed to virtues of this shrine. Long lines of supplicants visit them. In Detroit the services at the shrine of the Little Flower are broadcast by WJR. In the picture are a few celebrities who recently attended the church. Left to right: Harry Hellman 1, Paddy Sexton 2, Mrs. Harry Hellman 3, Joe Dugan 4, Rev. Chas. E. Coughlin 5 and Babe Ruth 6.

Tasmania Answers Promptly

SCHENECTADY.—Every day the use of the short wave seems to be achieving new thrills for the amateurs. Four members of the Australian industrial commission, visiting the General Electric company here, were invited to step to the short wave transmitter and send a message home on the C. E. 32.75 meter wave. There were several short speeches that ended at exactly 5:48 a. m. At 5:53—five minutes later—William Jackson, a local amateur, picked up W. T. Watkins, another amateur sending from Hobart, Tasmania, who stated that the Australian message had been received clearly and distinctly: "Loud and clear," he said, "Could even hear the microphone rustle."

HOT SPRINGS, S. D.—Radio reception is good at 5,000 feet underground in Wind Cave here.

ENGINEERS EXPECT BIG CHANGES SOON

OVERCOME ENERGY LOSS
IN HEATING OF TUBES

Westinghouse Substitutes "Frequency" for Power Modulation—Greater Latitude by Precision Tuning

PITTSBURGH.—Engineers have been watching with interest the development of the new system of modulation in broadcasting announced by the Westinghouse company a few weeks ago. It is predicted that eventually it may mean a complete revision of the present system, allowing for precision tuning on high powered stations and finer calibration of receivers.

This, naturally, leads to sharply defined edges to the waves on the air, making the channels so clean cut that there is no overlapping, and, in fact it is claimed that there is plenty of room for many more new stations without danger of interference—perhaps twice as many stations as are on the air at present. Static noise is said to have been met with a two-edged sword and largely conquered.

Experiments at KDKA, which radiates 50,000 watts, have shown a great improvement of service, tuning sharply even at the nearby points. In Michigan, New York and Massachusetts report were checked that the signals had been received with even more volume and clarity than heretofore. This is accounted for by the greater conservation of the energy generated.

The "frequency modulation" is described as revolutionary to the "power modulation." The Federal Radio commission ruled that ten kilocycles must separate all stations; however, under this new arrangement it is claimed that the frequency band required for each station can safely be cut to one-half kilocycle. Instead of varying the amplitude or strength of the signal they are varying the frequency of transmission, usually not more than 500 to 800 cycles.

Thus all modulator tubes are eliminated, which at KDKA means the disposal of twelve of the huge ten-kilowatt water-cooled tubes. Under the present system fifty per cent of all energy supplied the transmitter is absorbed and dissipated as heat. It is claimed by the Westinghouse engineers that all this wasted energy is now converted into increased power for the transmitter.

There is a great deal of speculation as to what the next twelve months will bring about in the way of new developments along this line. The announcement clears somewhat the mystery which other broadcasters considered to be back of the unusual penetrating power of Westinghouse KYW in Chicago.

Uncle Bob Bereaved

Cheery Uncle Bob of KYW was missed from the air by his thousands of little friends during the early part of the month just passed. He was bereaved by the loss of his wife, Mrs. Walter Wilson, who had been ill for some time.

Challenge Mona Twins

SEEING a picture in Radio Digest of the Mona Motor Twins Gaston and Alphonshig a cinema queen into a snookum wagon, the Ray-O-Vac Twins send the picture below. "No argument here," quoth Ray. "Big enough for two," echoed O'Vac. (No, dear reader, the object in the background is the tent.)

RAY TWINS, JEALOUS OF MONA TWINS, SERENADE GIRL "BIG ENOUGH FOR TWO"



TORCH of YOUTH

THROUGH THE CRUCIBLES of Experience Uncle Joe Finds Characters That Stand the Test—Wanda Proves the Theory That There's "Always Some Way Out"

CHAPTER IX

True Steel

By GRISWOLD BAER

"DO you know where to get Weiss? Can you get him on the phone?" Uncle Joe turned abruptly from facing the window and squinted a hard blue eye at Stub Gallagher, who had been looking appraisingly at the corner of the big mahogany desk as a possible resting place.

"What, me?" he asked innocently, "why, of course not." He shifted the stump of a black cigar to the other corner of his mouth.

"You're a liar. You know blamed well where he is," Uncle Joe shook a long, skinny finger and glared beneath his shaggy brows.

"Oh, all right. Guilty as charged in the indictment."

"You know you are. Now then, Stub, let's understand each other. I don't pry into your secrets as a rule, but this matters a whole lot to me—so much that I'm ready to let everything else drop and see it through. This school is my hobby. I want to see real men and real women come out of there, AA grade cold rolled steel. My idea of mixing up with you fellows is to inject a little of life's real fire and danger in the school life. And besides it may do you some good, too. Now as to the alcohol affair at the laboratory, I didn't want to wreck Garden. It was a test that has not had a chance to come to a last analysis. I want Garden to have his chance and not pass out without giving the true steel a chance to show up. Do you get the idea in that dumb skull of yours, Stub? I want to save that boy and you've got to give me everything you've got."

"I admit, Colonel," Stub answered with a mock injured air, "I ain't so long on theory, as you call it, but I've seen a lot and done a lot and what I see an' done ain't been wasted so far as my dumb skull is concerned. One of the things we learn in the school where I come from is not to be oratorical about people who might be unfriendly in a rough sort of way. You get me, in that egg-shell skull of yours?"

"Oh, perfectly, and now that we've got that settled—I want your good advice on what's the first thing to do to find young Garden and what to do to cheat the undertaker from an unexpected pleasure. I've got all the faith in the world in you, and I know you will have the best possible advice."

"AS the French say, 'find the woman.' If I was you I'd get all I could from Miss Nevvus."

"I intend to do that, but first I wanted to get all I could from Stub Gallagher. He can tell me more than anyone else except the real people involved."

"Whatever my skull may be my skin isn't any more bullet proof than yours nor Garden's. I'll find out what I can and let you know, and you can be talkin' to the girl in the meantime."

Stub meandered nonchalantly through the outer office and Uncle Joe sought an interview with Wanda through Miss Mathilde Matthews.

During this time Wanda seemed to find herself being snarled into a more complicated web. She said:

"I've got to do something. There must be some way out. There always is." She sat on the edge of her bed while her mind pursued long futile trails in search of possible solutions to her dilemma. Stella had been stationed by the telephone. It had been ringing as calls came from various sources, especially from the Pluks who wanted to know about Shirley. Presently it buzzed again. It was a man's voice, strange and husky.

"Is that you, Stella?" he asked. "Are you both all right?"

"Of course; who is it and why do you ask?"

"Let me talk," pleaded Wanda, taking the instrument from Stella's hands. She picked up the fragment of a sentence.

"—Karl. I just wanted to know whether anything had happened," said the voice. She recognized that it was indeed Karl. "Many things have happened, Karl. Where are you? Where is Babe?"

"Why—why—is he gone?"

"Yes, and under very strange circumstances—"

"WELL, I've been through hell myself, Wanda, but I guess it's my own fault for getting so crazy mad at the Weiss joint. Nobody trusts

me now. But I'm going to find Babe if it's the last thing I do."

"But who is Weiss? What am I to do? Where can I go? What is it all about?"

"Just stay where you are until you hear from me again. Don't worry, I'll get there first. I know a lot more than anybody suspects and with my knowledge of psychological probabilities I'll be a good guesser. I don't dare tell you any more—there may be eavesdroppers around this public booth. I'm not far from Lincoln

special friends and it was a period at which she reasoned he would be in. She found him as she had expected and he promised to come with four husky brothers.

"But try strategy rather than violence," she warned, "because they are armed and desperate."

She tip-toed back to the window and in less than a minute a man she had not seen before came running from a side entrance to the building and jumped

"Now they're both gone," said Uncle Joe as he let both hands drop wearily on his desk.

"Genatti kidnaped her and they're going to try to make her tell all about Garden and the Weiss gang. They won't believe she don't know nuthin' about them. If we light out, we can pick up Ralph Samson and a couple of his men and maybe give 'em a battle," Stub replied in an unusual rapid clatter of words for him.

Steel was literally the mainspring of Uncle Joe's life. Now his great energies were clicking in full unison. He issued a few crisp orders, armed himself, put on a great coat and with Stub at his heels sprang through the door, then sped down the long hall of the office building, down a stairway into a shop, out through a grimy shed and there, on a paved yards road, was a big and powerful motor car ready to go.

"I'll take the wheel, Jeff," he said to the chauffeur, "we're going on a dangerous ride—maybe some shooting—go or not as you like."

"Just suits me," said Jeff, "I haven't seen a war since the Argonne."

The big machine leaped with silent but vigorous life. They were soon whirling toward Chicago over the wind swept highways. They flashed through the dingy streets of South Chicago and westward into the fringe of the south side badlands. They crossed a maze of railroad tracks, glided into a side street and came to a halt before a yellow brick two-flat building.

Stub slipped cautiously out of the car and up the short walk to the entrance. Blinds were drawn down to the sills on all the windows. But Stub did not hesitate. He already had a key in his hand, which he slipped into the lock and turned as quickly as he would have done the ordinary knob.

He was gone but a few minutes. When he came out two young men followed with heavily laden suitcases.

"My friends here brought along a couple Tommy lead-sifters in case they might come handy," Stub explained as he snapped the rear door shut and took his seat beside Uncle Joe. "Hit out straight west, they'll take one of the new prairie roads past the airfields. These boys got the dope. They'll give the girl a good scare, even if they don't kill her."

The engine purred with scarcely a sound. The indicator showed 35—40 and 45—but not until he had passed the last big crossroad did Uncle Joe let it fly any faster. The drone of an airplane came to their ears. One of the strangers glanced through the back window and gave an exclamation.

"That's Buzzard!" he exclaimed. "He was supposed to be half way up to the border now. Something has happened."

Stub took the driver's mirror from its rack and flashed it out of the window, twisting it in all directions to get the reflection—it was a code to catch the eye of a flying runner and advise him of his waiting consort. The plane dipped and zoomed away directly in front of the car. It headed to the north and far across the prairies they could see a speck of an automobile moving west in a parallel direction with their own.

The plane seemed to hover over this machine, circled and flew back. They came to a slightly traveled crossroad and Uncle Joe turned northward. At the next intersection men were laying concrete and the whole roadway was blocked, so the big car headed west again. In a moment they were straight across from the mysterious car, but the street was so full of holes they had to slow down to an almost hopeless pace.

"GET the field glasses from the side pocket and see what you can make out," directed the steel magnate.

"I don't need no glasses," scorned Stub. "That's them. I know Genatti's old slaughter bus. Every gun man in this part of the country knows it. Why he keeps on usin' it is more'n I can tell."

Roads apparently were not so good for the kidnapers, either. Both cars, a broad prairie separating, were keeping along abreast.

Suddenly Stub gave an exclamation of surprise. Another traveler was discovered in the wake of the kidnaper's car. Dimly visible it appeared to be a motorcycle man in khaki. After straining his eyes he yielded to the suggestion of the field glasses. He fumbled with the need-

(Continued on page 22)



"It takes a Wampus to vamp us," say the blasé gentlemen of the Pacific coast, in the particular environment of Hollywood, the capital of feminine pulchritude. "Well, well—and what is a Wampus, pray tell?" demanded the gentlemen of the Atlantic coast. So Mary McAllister, the Baby Wampus Star of 1927, journeyed all the way to WPG at Atlantic City—and the question of the East has been beautifully answered, visually and aurally.

Park in Chicago—that's all I can say. Don't worry. Goodbye."

No sooner did she hang up than the telephone rang again. It was the dean's office. Somebody wanted to meet her there and probably would be able to give her some important information. Would she please come right away? She promised to come immediately.

Slipping into her heavy coat she ran down the stairs. In the vestibule she came to a sudden stop. Through the door window she observed a black touring car nose abruptly into her line of vision. The memory of that car had burned itself into her mind earlier in the day at the Sugar Bowl. She hesitated as she saw the curtained door of the vehicle pushed lightly ajar. Edging to one side she saw a muffled figure loitering on the walk.

Her first impulse was to run out and seize the man, then it came to her with a shock that this would be playing right into their hands; that she, too, was suspected of knowing too much, or possibly could be used as a lure to bring Garden into their trap. Pretending to look in her pockets as though she had forgotten something she turned around and hurried back up to her room.

She called Stella and cautiously they looked down from the window at the strange car which still stood in front of the entrance.

"I'm going to call the Alphon house and get Jack Gately to bring some of the boys over here," she said, and tip-toed to the telephone. Gately and Babe had been es-

into the car. The loiterer followed. A quick snort of the engine and the machine whirled away.

"I should wait for the boys but I guess it's all safe now," she said. "You tell them what happened and that I had to hurry."

Stella promised and said she would cut everything for the day in order to keep near the telephone. Wanda hurried down the steps.

Rarely had Uncle Joe Grant been compelled to wait for his appointments. Rarely did he ever betray any pressing anxiety but an hour and fifteen minutes had passed since he had requested the honor of meeting Miss Nevvus at the dean's office and as yet no report had been received that she had arrived. It would take him no more than ten minutes to whirl over there from the mills and he had decided to wait in his own office rather than at the dean's, where his prolonged presence might arouse undue curiosity.

He snapped rather testily to the young woman who answered his buzzer.

"Call Miss Matthews and ask her if Miss Nevvus can find it convenient to meet me before she goes to her luncheon. I'll go right over as soon as I am informed she is at the dean's office."

In a few minutes he received a reply that Miss Nevvus had started for the dean's office nearly an hour previously but had not arrived. Then he heard about the strange car that had stopped before Arbor Hall. As though in answer to a prayer Stub returned at this moment.

Directory of New Wave Lengths

Issued by Commission—August 1, 1927

Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location	Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location	Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location	Wave length	Frequency (kilocycles)	Power (watts)	Call signal	Location					
UNITED STATES STATIONS BY WAVE LENGTHS																								
199.9	1,500	15	KGFN	Aneta, N. D.	217.3	1,380	100	KFOR	Lincoln, Nebr.	238	1,260	15	KFBS	Trinidad, Colo.	267.7	1,120	100	KFIZ	F. du Loc, Wis.	344.5	870	100	KFOD	Anchrg, Alas.
		5	KDLO	Durango, Colo.			100	KFOW	Seattle, Wash.			25	KFVI	Houston, Tex.			100	KFLV	Rockford, Ill.			5,000	KWCB	Stockton, Cal.
		5	KJLJ	Seattle, Wash.			20	KGDM	Stockton, Cal.			100	KFYF	Oxnard, Calif.			250	KFWL	S. Fran., Coll.			250	WJBB	St. Ptsbg, Fla.
		15	KWBS	Portland, Ore.			100	WIBU	Poynette, Wis.			100	WKBZ	Galesburg, Ill.			50	KMED	Medford, Ore.			5,000	WLS	Chicago, Ill.
		15	WKBZ	L'd't'n, Mich.			100	WKBV	Brkvl, Ind.			1,000	WEMC	B. S., Mich.			1,000	KSBA	Shreveport, La.					
		15	WMBU	Bl'm'g't'n, Ill.			500	WKBW	Buffalo, N.Y.			150	WIBX	Utico, N. Y.			25	WAAD	Cincinnati, O.					
		15	WNBK	Bl'm'g't'n, Ill.			100	WLBG	Galveston, Ill.			30	WJBW	N. O'l'ns, La.			100	WBAO	Decatur, Ill.			2,500	KJR	Seattle, Wash.
		250	WRAH	Prv'dce., R. I.			50	WMBU	Pittsburgh, Pa.			250	WLBK	E. W'n'a, Ill.			100	WBAO	Decatur, Ill.			500	WAAW	Bristow, Okla.
							250	WRCO	Raleigh, N. C.			100	WRCO	Raleigh, N. C.			100	WBAO	Decatur, Ill.			500	WAAW	Newark, N.J.
							250	WRES	Quincy, Moas.			250	WRCO	Raleigh, N. C.			100	WBAO	Decatur, Ill.			100	WDFD	Flinn, Mich.
												250	WRCO	Raleigh, N. C.			100	WBAO	Decatur, Ill.			500	WGSB	Astoria, N. Y.
												250	WRCO	Raleigh, N. C.			100	WBAO	Decatur, Ill.			100	WDAE	Tompe, Fla.
												250	WRCO	Raleigh, N. C.			100	WBAO	Decatur, Ill.			100	WDAE	Tompe, Fla.
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Receiver Interference at Home

CHOKE COILS Throttle Noise from Battery Chargers —How to Detect Motor Disturbance—Benefits of Commercial Filters

PART II

QUITE a few experiments have been performed in order to determine the feasibility of eliminating all classes of interference caused by household electrical appliances. In most cases, it was possible to either eliminate the interference entirely or reduce it to such a point that it was not noticeable. Various forms of filter arrangements were used, and this seems to be the most practical way of reducing or eliminating this form of interference. Such filters will be taken up later on.

The violet-ray presented the most difficult problem on account of the fact that we not only had a vibrating contact, but we also had a high frequency current with which to deal. However, it was found that by shunting two condensers of 2 mfd. each, in series, across the vibrating contact and the induction coil (See Fig. 1, dotted lines) and grounding the center point of the condensers, a large portion of

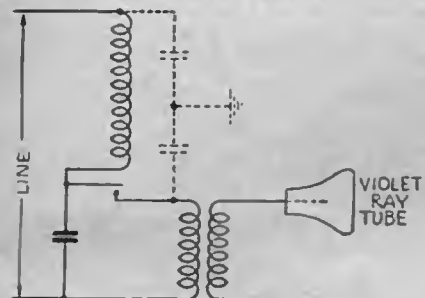


Fig. 1

the interference could be eliminated, leaving only a small amount. All other filter arrangements reduced the interference to a certain extent, but they also reduced the strength of the violet-ray, and hence, could not be used.

How Experiments Were Performed

All experiments were performed using a Superheterodyne receiver operated by means of a B eliminator and deriving its power from the A. C. (alternating current) mains. The appliance, under consideration in each case, was plugged in at the same outlet, so that the high frequency surges would have as direct a connection as possible with the receiver, and could react directly on it, without having to travel through other parts of the wiring system.

A vibrating contact storage battery charger was found to create almost as much interference as the violet-ray. The charger was placed directly underneath the receiving set, and the interference was enough to overcome the signals from a local high-powered broadcasting station. However, it was found that the interference could be entirely eliminated by the arrangement shown in the diagram, Figure 2.

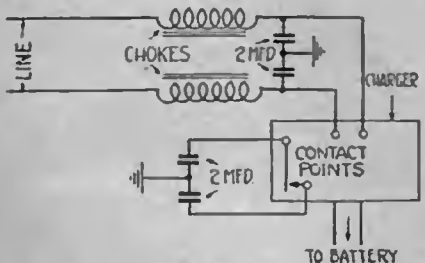


Figure 2

Eliminating Charger Interference

The successful elimination of the interference caused by the charger led to other experiments on various classes of household appliances, and in each case it was found that by inserting a choke coil in each side of the line, and between the choke coils and the appliances, two condensers were connected in series, with the center point grounded, and the outside terminals connected to each side of the line, the interference could be entirely eliminated, or reduced to a point where it would not interfere with reception and could only be heard by listening very closely.

In some cases it was found that it was necessary to shunt either one or two condensers, in series, across the vibrating contacts, and when two condensers were used the center point was grounded. This reduced sparking at the point and also provided a low reactance path to ground for all high frequency current. By this means the interference from a large bell

or buzzer-operated directly from the A. C. mains, and placed very near the receiving set, was entirely eliminated, so that no interference was present in the loud speaker. See Figure 3.

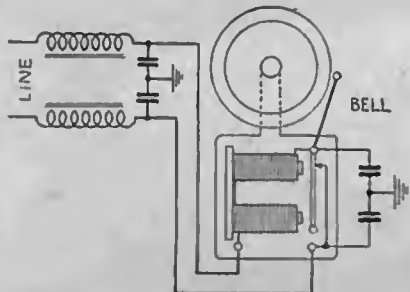


Figure 3

In a few cases it was found that the frequency of the interference was changed so that it could be heard at another setting of the dial, and in such cases either an increase or decrease in the size of the chokes would entirely remove the interference from the broadcast band, so that it could not be heard at any dial setting.

Appliances Using Motors

In most cases the interference arising from the use of an electric motor can be classified, either as a steady hum, or a sputtering, crackling noise, similar to static. It has been found that the sputtering or crackling noise is frequently due to sparking at the commutator. Fortunately, this form of interference can be very easily eliminated, because, it is due to the rough surface of the commutator.

If we take a small piece of fine sand paper, about 00 grade, and hold it against the commutator while the motor is running, this will clean the commutator and decrease the amount of sparking, and also



Figure 4A

with the decrease in sparking, the interference will be eliminated. This is a very cheap method of eliminating this class of interference and about all that is necessary is to frequently examine the motor and see when excessive sparking is occurring and sand the commutator as above. When the owners of these motors realize that in order to prevent this form of interference they must keep their equipment in good condition and go over it frequently we will have very little interference from this source. If one is not familiar with the apparatus and is not able to do this, an expert from the power and light company or other electrical company can perform this operation in a few minutes and at a very small cost. The second form of interference, arising from the use of electric motors—that is, the humming noise, cannot be prevented quite so easily. However, it can be effectively eliminated and without a great deal of expense. Recently, several manufacturers have put out filter systems designed for this purpose. Two such filters are illustrated in Figures 4A and 4B.

The filter is connected between the appliance and the line supplying it—that is, the terminals marked "M" on the Quietus should be connected to the line leading to

the motor, and the terminals marked "L" should be connected to the supply line. The terminal marked "G" should be connected to the ground. This filter is not designed to be used with or connected to the receiving set, but only near an electric motor.

The Tobe filter should be connected between the line and the appliance. The two left hand posts marked "line" are connected directly to the electric light line supplying the appliance, and the two right hand leads are connected to the appliance or motor. The center post should be connected to the frame of the motor and the motor frame should then be grounded.

This filter is suitable for use with all types of fractional horse-power motors consuming 8 amperes or less at 120 or 200 volts. As most motors used in household appliances are not larger than 1/4 horse-

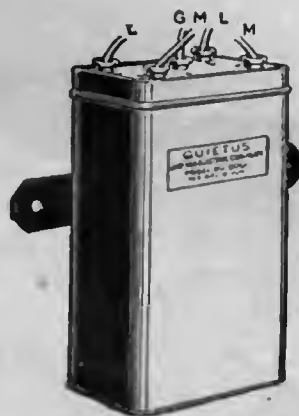


Figure 4B

power, this filter is very well suited for eliminating this class of interference.

Figure 5 illustrates a typical filter circuit used with electric motors. The two inductances shown, L1 and L2, are small iron core chokes of approximately 200 millihenries each. The condensers, C1 and C2, should be at least 1 mfd. capacity and better yet, 2 mfd.

The function of the chokes is to prevent the disturbances created by the electric motor from entering the house wiring system and power lines and being radiated over a wide area. They present a high reactance to the flow of high frequency current and effectively prevent the flow of this high frequency current. By shunting the two condensers, C1 and C2, across the line, and connecting the center point to the ground, we provide a low reactance path for this high frequency current to flow to the ground. The condenser shown as C3 in the diagram is not absolutely necessary, and in most instances it is not used. However, it is shown, as it sometimes helps in eliminating this class of interference.

For those who wish to "build their own," a description is given herewith. Each choke should consist of a total of 176 turns of No. 16 DCC copper wire on a

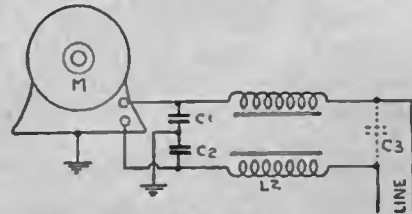


Figure 5

porcelain tube 1 inch in diameter, and approximately 5 inches long. It should be layer wound with 88 turns to the layer—two layers being used, and one thickness of Empire cloth should be inserted between each layer of wire, and the whole should be given a good coat of insulating varnish when complete, with one layer of Empire cloth on the outside.

A small piece of ordinary stove pipe iron, about 18 gauge, should be cut so as to form the core. It should be rolled and inserted in the porcelain tube so that it does not make a complete circle—that is, a small arc of at least 1/4 inch is left out. The iron should be approximately 5x3 inches to be used with the porcelain tube

having an internal diameter of 1 inch. The condensers used should be preferably mica condensers of 2 mfd. each. However, a paper dielectric may be used, if the condensers are constructed so as to withstand the voltage. A very suitable condenser for this purpose would be the WS-2735 condenser, manufactured by the Wireless Specialty company, or the Dubilier No. 502 2 mfd. condenser.

The ordinary 1 mfd. condenser used in the receiving set will not be suitable for this purpose, as it will not stand the voltage to which it will be subjected, and precaution must be used in order to prevent these condensers from breaking down and causing a short on the line. It is best to use a condenser having a much higher rating than the voltage to which it will be subjected. Wherever there is a permanent installation of a motor, such as in the electric refrigerator, the oil burning furnace, the washing machine, or elsewhere, one of these filters could be installed between the motor and the line. All that would be necessary to do is to cut the leads running to the motor and insert the filter with the connections as shown in Figure 5. The ground connection should be attached to the water pipe system and the condenser side of the filter should always go next to the motor.

(Part III Concluded in September)

Britain Prefers "Variety" Music

Radio Digest Program Ballot Travels Far—London Daily Mail Checks 1,285,083 Votes

When Radio Digest presented the first ballot for the ten most popular stations it inaugurated a wave of balloting that was copied by newspapers and other Radio magazines throughout the country. Subsequently when your Radio Digest submitted a ballot on the most popular programs and broadcast features that idea also was copied by other magazines and newspapers.

One of the Radio magazines exploited its own findings throughout the newspapers by publicity reports. The final echo of this campaign comes from across the Atlantic where the London Daily Mail sought from its readers an expression as to its preferences in the way of Radio entertainment.

As the result of the London Daily Mail canvass 1,285,083 replies were received. Apparently the character of the programs in Europe is different than in the United States. The tabulated vote was as follows:

Variety and concert parties.....	238,489
Light orchestral music.....	179,153
Military bands.....	164,613
Dance music.....	134,027
Talks, topical, sport and news.....	114,571
Symphony concerts.....	73,781
Solos, vocal and instrumental.....	72,658
Opera and oratorio.....	69,983
Outside broadcasts.....	51,755
Short plays and sketches.....	49,857
Talks, scientific and informative.....	30,919
Glees, choruses, sea chanties.....	30,445
Chamber music.....	27,467
Revue.....	27,059
Long plays.....	17,576
Readings and recitations.....	2,717
Free votes not recorded.....	4,013

Total1,285,083
Radio Digest considered it important, as a matter of information to the broadcaster, that dislikes also should be noted, making it possible to gauge proportions with which to compose a program.

While the Radio Digest results showed that male voices were most popular in the final sum total, the first tendency was a majority for popular dance orchestra music; which afterward was the conclusion of a vote taken by another Radio magazine.

Can Phone Portugal Now

WASHINGTON.—W. Stanley Hollis, consul general of the United States at Lisbon, Portugal, reports to the department of commerce that the Marconi Radio company has established a station at Lisbon, making direct Radio communication between America and Portugal possible. The station is of strategic location for communication between all countries of the two hemispheres.

Radio Digest Illustrated

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Vol. XXII

AUGUST, 1927

No. 1

Thanks for the Choice

VOLUTION—the right of choice—is the most wonderful gift that God has given to humans. The choice of right or wrong, beauty or ugliness, sweetness or sourness—in fact, the whole gamut of elections, is the perfect gift to man. And so this divine heritage is extended to broadcasting. Beginning in September, it has been announced, the Columbia Broadcasting System will offer the listening public of America the choice of another National chain program.

Assuming for the moment that the present chains were rendering a perfect national broadcasting service to the public and by their control of telephone wires, whether by available money for wire construction or by a secret understanding with the American Telephone and Telegraph company, they had a monopoly such as they have enjoyed until now. Wouldn't there be some people perverse enough, yearning for the divine right of choice, who would want a less perfect national presentation? Radio Digest has believed so and welcomes the advent of the Columbia Broadcasting System as a harbinger of others to come.

We believe that the new chain is an insurance against a monopoly of the air for national affairs that to date, for some reason or other, has been the exclusive property of the National Broadcasting company. We believe that the new chain will improve national programs by competition.

We know, as does our Canadian friend, that the telephone man thinks as a monopolist and that he is not necessarily the best choice for the management of the programs we receive over our Radio set from national sources. Until the advent of the new Columbia chain we were sure that broadcasting was in danger and that it was being used to further the political interests of the telephone and electrical interests. We saw through the smoke screen of Mary Garden, Will Rogers, Walter Damrosch, Lindberg and other worthy presentations—plays for public favor. A blind to control the only nation-wide source through which the President of the United States, the secretary of commerce, the new Radio commission could speak to the public. Thanks to the advent of the new Columbia chain and its ability to put up the million or so necessary for the construction of connecting wires to its stations, public officials will have another air form available—other than that controlled by the telephone and electrical interests. The listening public will have a choice in national programs.

Arthur Judson and that great showman, Major J. Andrew White, will give us some different programs on the new Columbia system chain. There's better telephone service in towns where they have the automatic.

* *

Too bad that the patent on the air expired when Adam and Eve lost their appeal to the supreme court. Seven and a half per cent on broadcast advertising would help the fattening profit chest, Davy.

* *

Impulses are bankrupt agents for the soul.

* *

Variation makes life. The uneventful is the damned.

* *

Obscurity touches greatness, even the hem of its shroud.

* *

Leaving the heir: "The reward of being good is being good."

RADIO INDI-GEST

Ode to Jubilee

George P. Graham, chairman of the executive committee for the Canadian Diamond Jubilee, sends us the complete ode written for the occasion by Wilson MacDonald, a Canadian hailed by English critics as a new genius. There are ten verses of which the following are the first and second.

The richness of maturity has her charms—
Dusk, and the peace of twilight, and red fruit
Heaped in an aged orchard's sunburnt arms,
And old men and old women sitting mute
On sunny benches by a shadowy door,
And grasses yellow and brown and the burst pods
Of milkweed, and the outflamed goldenrods,
And seeds that burst with richness to the core,
And mystic streets of cities dark with age
And wisdom of the philosophic page.

There is a glory in completed life,
In rich fruition, and achievement gained,
In sweet harmonious refuge after strife—
The glory of an evening crimson-stained.
But there is equal wonder at the spring,
And at the heart of youth, aflame with fire,
And at the joyous paean of that choir
Which, in the chancel of the morning, sing,
And at the new-born moon, and April showers,
And buds that light the tapers of rich flowers.

Call for Joy Boy

Whar's that Oklahoma Joy Boy? A "Blue Ribbon Fan" from Blackwell, Okla., sends the following in your honor:

Tell Him Now

If with pleasure you are viewing the good
Work the Joy Boy's doing; If you like it or
Approve it, tell him now, don't withhold
Your approbation, till the parson makes
Oration, and he lies with snow white lilies
On his brow;
For no matter how you shout it he won't
Hear a word about it;
He won't know how many tear drops you have shed.
If you think some praise is due him
Now's the time to give it to him
He can't read what's on his tombstone when
He's dead. More than lame and more than
Money is the comment kind and sunny,
And the hearty warm approval of a friend;
For it gives his life a savor, and it makes him
Stronger, braver, and it gives him heart and
Spirit to the end.
If he earns your praise bestow it, now's
The time to let him know it;
Let the words of encouragement be said.
Do not wait till life is over, and he's underneath
The clover,
He can't read what's on his tombstone when
He's dead.

We printed it as is, without changing the arrangement of a line, JOY Boy.

H. H. Writes to G. H.

"Oh Indl," nled Miss Grace Hammill, the genial program ed. "I've got an awfully cute letter from Harold Hough, you know, the Hired Hands—or is it 'Hand'?—and it's just too funny for words—I mean the letter, silly—but why shouldn't it be 'hands'—he rents both of 'em, doesn't he?"

Be that as it mote. Here is the epistle from the gentleman of WBAP, FL Worth:

Melonscribed

You are correct, it is hot down here. It is even hotter than—hot. Of course, that does the watermelons good. We are trying to work out a scheme this year, whereby we can arrange a special brand of melon, so that the black seeds will be arranged inside the melon, to spell out the name of the party for whom the melon is being grown. I think it is a very beautiful thought and I know it is an original one, to have melons which when sliced by a friend or near-friend, a thousand miles away, will when the thing is split open, display therein a neat arrangement of the black seeds, the correct spelling of the recipient's name.

I can't help but believe that the special order of melons would soon be in as much demand as special orders for automobiles. I don't know that we will be able to successfully do this this year, because I am a little afraid to take it on. I remember faces well, but I have the unfortunate of forgetting the spelling of names and initials and I don't want to make any mistakes, starting out with a new product of this kind.

It ought to "out Burbank" any fruit, vegetable or tobacco, which has ever been Burbanked before.

How Great Wars Start

Some kind soul sent us a copy of the Iowa Union Leader with the following classic marked with red chalk:

Come get your darned old radio,
Take all the horns and tubes
Take the darned old batteries
They're useless now to rubes!
We can't get Shenandoah
With its good old songs and tunes,

We never now hear Henry
With his friendly talk on prunes!
We can't get May nor Berries
With their home-town chat and news
This high-brow jazz and smart stuff
Gives us the blituous blues!

They've spoiled the homely pleasure
We had when Lettie sang,
It gives us nervous headache
To hear the groan and bang,
And everlasting rattle
And whine and thump and squeal
From brazen horn and trumpet
And banjos made of steel!

INDI.

That Permanent Wave



Condensed BY DIELECTRIC

YOU have in me one person desirous of learning the reaction of such listeners as are naturally lukewarm to any classical symphony concert, who by chance or intent tune to the performances given by the Boston symphony orchestra which include "modern" compositions. What did you think of the eulogy to Henry Ford's millionth namesake? You may write in code if you choose to escape punishment by the postal authorities. On the other hand, you must have experienced pleasure in listening to Tchaikovsky's great fifth symphony, in which the strings were so responsive to the composer's wishes, as well as to those dance tunes so graceful and simple and popular a century ago. Another program by the same noted players brought to our ears a convincing interpretation of "Death and transfiguration" from the master brain of Richard Strauss and the haunting barbaric strains of a fiendish "Salome," by the same composer. Then another of these modern productions with its clashing harmonies, unorthodox intervals and harsh percussion sounds jarred through a wild period in the program. Yet the good is easily remembered however disturbing the balance may be.

Most of us listeners are familiar with the term, "all-star football team," and now we have met an "all-American star broadcasting features" feature, judged by a metropolitan newspaper. As with the choices made in other spheres, we sometimes disagree with the judges' selection. Certainly the self-appointed judges cannot be accused of picking from a single group of entertainers; all classes were represented on this program. Popular pianists in popular selections, orchestras known to many regular listeners were among the honored recipients of this special classification. Harry Riser made new appeals with his banjo, in part due to original compositions. John Barnes Wells' tenor found favor in the singing of his own songs. Clarinet solos gave pause to those unfamiliar with that instrument in such a capacity. Then switching to Roxy's studio gave us the unchanging loveliness of Gladys Rice's soprano (yes, soprano), a four violin arrangement of the "Meditation" from Thais and other features. That attempt with the four violins does not deserve a repetition, however skillful the players. Many features you may think of were not included in this cast, although equally deserving a place—and some more deserving.

Roxy accomplished the unusual in motion picture studio broadcasting when he introduced Mischa Levitski, virtuoso pianist. Here is a brilliant artist, younger than most of those accepted as great, yet worthy a place with them. The Liszt E flat concerto is too well known and often heard played by eminent pianists to escape comparisons. From a technical viewpoint his grasp of the work was unsurpassed and in most other respects without censure. On the occasion of his playing the sixth Hungarian rhapsody of Liszt, his combined delicacy and virility of treatment of the work was notable. That the piano sounded less grateful to the ear than had his playing from the stage must be ascribed to the superior instrument selected for concert appearances, which could not be carried up to the studio, unfortunately. Roxy's Cathedral choir is a joy forever and seldom fails of an appearance on the program. To all admirers of the oratorio "Elijah" must have come a pleasing surprise when this was presented by so ably directed a chorus as he has at his disposal. The soloists were in the spirit of the hour too.

AN EVENING AT HOME WITH THE LISTENER IN IN CENTRAL TIME

Table with columns: Call, Location, Met., Kc., Saturday, Sunday, Monday, Tuesday, Wed., Thursday, Friday. Lists radio stations and their broadcast schedules.

Circulation

131,228

(1926)

94,821

(1925)

102,984

(1924)

61,225

(1923)

A. B. C. Auditors' Reports

Yearly Average Net Paid per Issue

Radio Digest

PROGRAMS Illustrated

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

Announcing

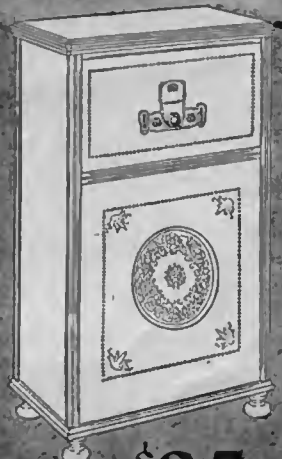


-When the gong rings for the big fight.....

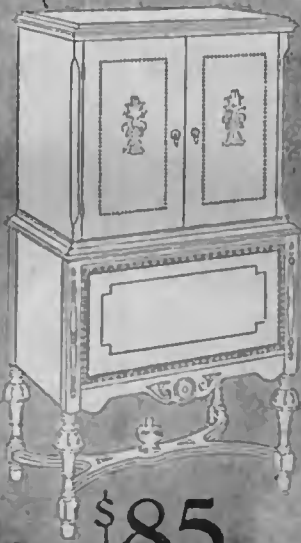
When the famous director lifts his baton.....

When Babe Ruth steps to the plate and the score is tied.....

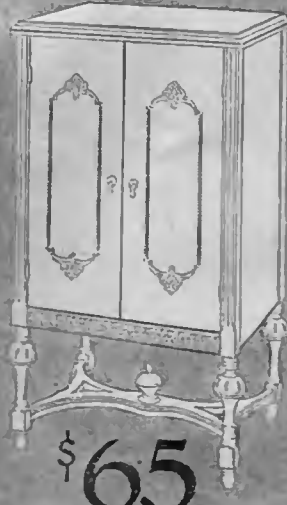
NEW PRICE
SUPER MUSICONE
\$12.75



\$35



\$85



\$65

"The BANDBOX"
6tube receiver
BATTERY TYPE
\$55.
AC TYPE
\$65

Prices slightly higher west of the Rocky Mountains

"You're there with a Crosley!"

Improved Musicones
Although Musicones improve the reception of any radio set, they are perfect affinities in finish, beauty and reproductive effectiveness for Crosley Radios. A new model built in the form of a Colonial Tilt-Table with brown mahogany finish, stands 3 feet high.
Price, \$27.50.
12-Inch Ultra Musicone
\$9.75

These approved cabinets have been selected by Powel Crosley, Jr., as ideal consoles, acoustically and mechanically, for the installation of the Crosley "BANDBOX". Genuine Musicones built in. Crosley dealers secure them from their jobbers through

H. T. ROBERTS CO.,
914 So. Michigan Ave., Chicago, Ill.
Sales Agents for Approved Console Factories:
SHOWERS BROTHERS COMPANY
THE WOLF MFG. INDUSTRIES

the CROSLEY "Bandbox"

and other new radio reception equipment
for the complete enjoyment of the 1927-28 radio season



The "BANDBOX"—a phenomenal Crosley radio receiver for the complete enjoyment of the 1927-28 Radio Season!

Recent court decisions which clarified the radio patent situation have paved the way for still greater Crosley triumphs.

Now—completely available to Crosley—and amplifying Crosley supremacy in fullest measure, are the enormous resources, great discoveries and ideas embodied in patents of

- 1—The Crosley Radio Corporation.
 - 2—The Radio Corp. of America.
 - 3—The Westinghouse Co.
 - 4—The General Electric Co.
 - 5—The American Telephone & Telegraph Co.
 - 6—The Hazeltine Corporation.
 - 7—The Latour Corporation.
- under which Crosley is now licensed to manufacture.

Here are the seven big things which represent radio's greatest advancement, brought together by Crosley and combined with the experience, mass production method and leadership of the Crosley organization.

No wonder a waiting radio world pronounces the "Bandbox" at the unprecedented price of \$55, Crosley's paramount achievement.

The Bandbox is Shielded

Radio coils are surrounded by magnetic fields similar in every respect to the magnetic field around the earth that moves the needle of a compass, but around radio coils these fields make nuisances of themselves by feeding back on each other. Heretofore it has been customary to make inefficient coils with inefficient fields to prevent feeding back. The Crosley Bandbox in-

corporates copper shields around each coil to prevent such feeding back. The coils consequently can be made and are very much more efficient. The amplification of the receiver is, therefore, much higher—the sensitivity is greatly increased.

Condensers are also completely shielded from each other in separate metal compartments. Hitherto, only high priced sets have enjoyed this super radio advantage.

There Is No Oscillation

The Bandbox employs completely balanced or neutralized radio frequency stages to prevent oscillation, instead of the common form of lossy method. More costly, to be sure, but extremely necessary in achieving such results as are obtained by this marvel of radio reception.

For Sharpness—The Acuminators

"Bandbox" acuminators enable "fishers" for distant stations to bring them in loud and clear. As powerful telescopes magnify distant scenes, acuminators increase the volume of far-away signals so they seem like local programs.

Volume Control

This is another big "Bandbox" feature which permits full brass band power for those who want their dance notes strong and loud. For others, it cuts volume down to a soft and gentle murmur, without distortion.

Illuminated Dial

A Master Station Selector has an illuminated dial for easy reading in shadowy corners. A single knob permits full tuning for ordinary reception of local, nearby and super-powered stations.

Installation Simplified

A woven cable, containing vari-colored rubber covered leads makes installation and hook-up easy for the veriest novice. No waiting for the radio service man, should the batteries be changed.

Easily Adapted to Consoles

Simply remove screws in escutcheon and in base of set. Lift off metal case. Chassis now stands ready for installation in console cabinet. Opening in console cabinet permits control shafts to protrude. Escutcheon screws in place and—Presto! the console radio is complete.

For AC Operation a special Bandbox is available at \$65, wired specially for use with the Crosley Power Converter at \$60. This special Bandbox utilizes the new R.C.A. AC tubes which have made the operation of radio receivers direct from house current so simple, efficient and dependable. The first three tubes employed in the AC model are UX-226. These go into the radio frequency sockets.

The detector tube is UY-227, with indirectly heated emitter. Another UX-226 is used in the first audio stage. Raw AC current heats the filament of all UX-226 tubes. Power tube UX-171 is in the

last audio socket. This makes the "dog houses" rumble sonorously and the bass drums deeply boom.

The Power Converter

The power converter which smooths the alternating current is a marvel of engineering ingenuity. Only half the size of an ordinary "A" storage battery, it supplies the required A, B and C currents, without hum. Finished in brown frosted crystalline. There are models for 25 and 60 cycle current. A snap switch shuts down the set and power converter completely.

Price of Power Converter—\$60

You owe it to yourself to see the "Bandbox" and listen to its remarkable performance. If you cannot easily locate the nearest Crosley dealer, his name and address will be supplied on request. Write Dept. 49.

CROSLEY RADIO

Crosley Radio is licensed only for Radio Amateur, Experimental and Broadcast Reception

THE CROSLEY RADIO CORPORATION
Powel Crosley, Jr., Pres.
Cincinnati, O.

Crosley recommends the use of five 201-A Radiotrons and one UX-171 power tube, which are furnished at standard tube prices, with each Bandbox. While Radiotron UX-171 is 180-volt tube, it gives a superior performance for 135-volt "B" batteries.

PASQUALE AMATO SINGS AT WPG

MONDAY, AUGUST 1 Headliners

Atlantic Eastern Central Mountain Pacific
7:15 p. m. 6:15 5:15 4:15 3:15
CFCA (356.9m-840kc) Clifford McCormick, organist.
7:30 6:30 5:30 4:30 3:30
WVIC (475.9m-630kc) Ethel Townsend, pianist.
7:45 6:45 5:45 4:45 3:45
WVIC (475.9m-630kc) Irvin Grant, soprano.
8:35 7:35 6:35 5:35 4:35
WBRR (256.3m-117kc) Ivy Brown, soprano.
8 7 6 5 4
WGR (303m-990kc) Hawaiian ensemble.
8:15 7:15 6:15 5:15 4:15
WABC (325.9m-920kc) Blake of Scotland Yard.
8:35 7:35 6:35 5:35 4:35
WABC (325.9m-920kc) Fireside Boys.
8 7 6 5 4
KFNF (270.1m-1110kc) Concert, featuring Luetta.
WBAL (285m-1050kc) Walter H. Luthicum, baritone.
WCO (508.2m-590kc) Traditional Irish music and folk songs.
9:30 8:30 7:30 6:30 5:30
WABQ (261m-1150kc) Hays and Herscher, popular song writers.
WFHH (365.6m-820kc) Mrs. R. L. Rodgers, soprano.
WGR (303m-990kc) Jenny Wren company concert program.
WJR (440.9m-600kc) Breeze Blowers.
WBZ (333.1m-900kc) Alwyn E. W. Bach, baritone.
10:05 9:05 8:05 7:05 6:05
WIOD (245.3m-1220kc) Hawaiian duo.
10:30 9:30 8:30 7:30 6:30
KOB (394.5m-760kc) State College Salon orchestra.
WFAA (499.7m-600kc) Folker male quartet.
11 10 9 8 7
KFN (233m-1290kc) Haymakers.
WTAM (399.8m-750kc) Willard Cavaliers.
11:15 10:15 9:15 8:15 7:15
KOA (325.9m-920kc) Indian music.
WRVA (254.1m-1180kc) Hawaiian quintet.
11:30 10:30 9:30 8:30 7:30
WBAP (499.7m-600kc) No. 14 Fire Hall string band.
12 mid. 11 10 9 8
KGO (384.4m-780kc), KPO (422.3m-710kc), KF1 (468.5m-640kc), KGW (491.5m-610kc), "Lucia de Lammermoor."
KLN (508m-590kc) Hawaiians.
KNS (336.9m-890kc) Calmon Luboviski, violinist.
12:30 a. m. 11:30 10:30 9:30 8:30
WTAM (399.8m-750kc) Vincent H. Percy, organ recital.
1 12 11 10 9
KF1 (468.5m-640kc) "Scenes of Childhood and Carnival."
KLN (508m-590kc) Lake Merritt Ducks.
1:15 12:15 11:15 10:15 9:15
WSUJ (422.3m-710kc) Elaine Blair, organist.
2:45 1:45 12:45 11:45 10:45
KOMO (305.9m-920kc) Brunswick Recording orchestra.

Regular Monday Features

Atlantic or Eastern Daylight Saving Time Stations

CFCA Toronto, Can. (357m-840kc) 7:15, organ.
CKNC Toronto, Can. (357m-840kc) 10 p. m. program.
WAAM Newark, N. J. (348.6m-860kc) 6 p. m. musical.
WABC New York, N. Y. (325.9m-920kc) 7:30 p. m. musical; 11, time.
WABQ Philadelphia, Pa. (260.7m-1150kc) 6 p. m. program; 8:30, organ; 9:45, baritone; 11:30, entertainers.
WBRR New York, N. Y. (256.3m-1170kc) 7 p. m. orchestra; 7:30, talks.
WBZ Springfield, Mass. (333.1m-900kc) 6 p. m. organ; 6:30, program; 7:30, WJZ, 9. band; 10:33, orchestra.
WCAE Pittsburgh, Pa. (516.9m-580kc) 6 p. m. dinner concert; 8, song recital; 9, orchestra; 10, grand opera.
WEAF New York, N. Y. (491.5m-610kc) 7:30 p. m. National string quartet; 8, South Sea Islanders.
WLIT, WVIC, WVAJ, WSAI; 8:30, Goldman band concert; WLIT, WVAJ, WSAI; 9, Howard correct time; WEEL, WJAR, WRC, WLIT, WCAE, WTAM, WVI, KSD, WSAI, WDAF, WMAQ; 10, National Grand Opera company; WJAR, WVIC, WLIT, WRC, WSHL, WCAE, WTAM, WDAF, WVI; 11, orchestra.
WEEL Boston, Mass. (447.5m-670kc) 7:30 p. m. book talk; 7:45, pianist; 8, program; 10, cruising the air; 10:40, Radio review.
WGBS New York, N. Y. (348.6m-860kc) 6:30, popular songs; 6:45.
WGCP Newark, N. J. (280m-1070kc) 7, Imperial Imps; 8, Auburn Ace; 9, orchestra.
WGR Buffalo, N. Y. (302.8m-990kc) 7-12 mid., program.
WHN New York, N. Y. (394.5m-760kc) 6:30 p. m. program; 12, Silver Shipper orchestra.
WICC Bridgeport, Conn. (214.2m-1400kc) 7:30 p. m. studio program; 9:30, service corporation; 10, orchestra; 11, Bucky Ritz.
WJZ New York, N. Y. (454.2m-660kc) 7 p. m. correct time; 7, Shoemakers; 7:30, Roxy and his gang; WJZ, WJZA, KDKA, KYW, WRC, WHAS, WSM, WSB, WBAL, WJR, KSD, WCCO, WOC, WHAM; 9, spotlight hour, KDKA; 10, moonlight sextet, KDKA, KJR; 10:30-11:30, A. Friedman's orchestra.
WLIT Philadelphia, Pa. (405.2m-740kc) 8 p. m. WEAF; 10, grand opera.
WLWL New York, N. Y. (370.2m-810kc) 8 p. m. musical.
WMAK Buffalo, N. Y. (545.1m-550kc) 6:15 p. m. dinner music; 7:30, musicale; 11, organ.
WMCA New York, N. Y. (370.2m-810kc) 6:25 p. m. baseball; 6:30, orchestra; 12:30, frolic club orchestra.
WMSC New York, N. Y. (236m-1270kc) 6 p. m. Knights of Harmony; 10:15, orchestra.
WNAC Boston, Mass. (352.7m-850kc) 7:30, music; 9:05, orchestra.
WOO Philadelphia, Pa. (508.2m-590kc) 7:30 p. m. dinner music; 8:30, address; 10, organ.
WOR Newark, N. J. (422.3m-710kc) 6:15 p. m. orchestra; 8, current events; 10:55, news; 11, orchestra.
WPG Atlantic City, N. J. (272.6m-1100kc) 6:45 p. m. organ; 8:15, musicale; 10:30, orchestra; 11:30, orchestra.
WTAG Worcester, Mass. (516.9m-580kc) 8 p. m. program.

Eastern Standard or Central Daylight Saving Time Stations

KDKA Pittsburgh, Pa. (315.6m-950kc) 6:30 p. m. WJZ; 7, WJZ.
WAIU Columbus, Ohio (282.8m-1050kc) 7:50 p. m. farm talk; 8, nature; 8:10, artists' concert; 9, program; 10, Radio production.
WBAL Baltimore, Md. (285.5m-1050kc) 6:30-8, WJZ; 8-9, musicale; 9-10, dance orchestra.
WBBM Chicago, Ill. (369.4m-770kc) 7 p. m. orchestra; 8:30, artists; 9, studio program.
WCSH Portland, Me. (361.2m-830kc) 7:15 p. m. features; 10, WEAF.
WCX Detroit, Mich. (440.9m-890kc) 6 p. m. dinner concert; 8, hymns.
WFHH Clearwater, Fla. (365.6m-820kc) 8:30 p. m. studio musicale; 9:45, Central American program; 10, orchestra.
WGDH Detroit, Mich. (319m-940kc) 6 p. m. dinner concert; 8, Detroit symphony.
WHAZ Troy, N. Y. (379.5m-790kc) 7 p. m. program.
WHK Cleveland, Ohio (285.3m-1130kc) 7:30 p. m. L. B. S. A. program; 8:30, specialty program; 9:30, serenaders.
WJAX Jacksonville, Fla. (336.8m-890kc) 8 p. m. symphony orchestra; 11:10, organ.
WBR Detroit, Mich. (440.9m-890kc) 6:30 p. m. WJZ; 8, minstrel; 8:30, Breeze Blowers; 9, WJZ.
WLVW Cincinnati, Ohio (428.3m-700kc) 7 p. m. orchestra; 9, program; 9:30, Zou music.

WRC Washington, D. C. (468.5m-640kc) 5-6 p. m. WEAF; 6:30-11, WEAF.
WRVA Richmond, Va. (254.7m-1180kc) 9 p. m. program; 10, serenaders; 11, orchestra.
WSAI Cincinnati, Ohio (381.2m-830kc) 7:30 p. m. WEAF; 10, studio program; 11, orchestra.
WSEA Norfolk, Va. (218.8m-1370kc) 7 p. m. dinner concert; 8, studio recital; 10, dance music.
WTAM Cleveland, Ohio (399.8m-750kc) 6 p. m. orchestra; 7, organ; 9, WRAAF; 10, studio program; 11:30, organ.
WVIC Hartford, Conn. (475.9m-630kc) 6:30 p. m. musical period; 7:30, theater; 9, WEAF; 10:30, organ.
WW3 Detroit, Mich. (374.8m-800kc) 6 p. m. dinner concert; 7:30-10, WEAF.
WWNC Asheville, N. C. (296.9m-1010kc) 7 p. m. dinner music; 9, entertainers; 11, theater frolic.

Central Standard Time Stations

KFAB Lincoln, Neb. (309.1m-970kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:30-10:30, orchestra.

WHB Kansas City, Mo. (338.9m-890kc) 7-8 p. m. musicale; 8-9.
WHO Des Moines, Iowa (535.4m-560kc) 6:30 p. m. orchestra; 8:30, drama; 9, artists; 9:30, dance orchestra; 11:15, organ.
WLAC Nashville, Tenn. (226m-1330kc) 7 p. m. children's period; 7:30-9, musicale.
WOC Davenport, Ia. (352.7m-850kc) 7:05-8 p. m. musical.
WOW Omaha, Neb. (508.2m-590kc) 6:50 p. m. musical; 8:30, 17th U. S. Infantry band.
WRR Dallas, Tex. (352.7m-850kc) 6-7 p. m. studio orchestra; 8-9, feature; 9:30-10:30, feature; 11-12, news hour.
WSB Atlanta, Ga. (475.9m-630kc) 6:30 p. m. WJZ; 8, farm program; 10:45, artists.
WSM Nashville, Tenn. (340.7m-880kc) 5:30-7 p. m. WJZ; 7:15, dinner concert; 8, music; 9, Radio Seven.
WSMB New Orleans, La. (322.4m-930kc) 8:30-10:30 p. m. Sunday South synopses, theater orchestras, Billy Broussard, Louis Boyer, popular songsters.

Fairmont hotel concert orchestra; 8-9, music; 9-10, studio program; 10:11, program.
KPSN Pasadena, Calif. (315.6m-950kc) 8 p. m. program.
KYA San Francisco, Calif. (309.1m-970kc) 7:15 p. m. trio; 8, popular night.

Monday, silent night for: CKAC, CKCL, KFDM, KH3, KLDS, KYW, WBBM, WBCN, WCBQ, WCFL, WEBB, WENR, WFI, WGBS, WGN, WGY, WHAS, WHT, WIBC, WIP, WJAZ, WJRD, WLII, WLS, WMAQ, WMBB, WOAI, WOK, WORD, WQ3, WSAI.

TUESDAY, AUGUST 2 Headliners

Atlantic Eastern Central Mountain Pacific
7:15 p. m. 6:15 5:15 4:15 3:15
WVIC (475.9m-630kc) Fred S. Woodford, baritone.
7:20 6:20 5:20 4:20 3:20
WBRR (256.3m-1170kc) Vivian Sherwood, contralto.
7:30 6:30 5:30 4:30 3:30
WCO (508.2m-590kc) WOO trio.
8 7 6 5 4
WIP (508.2m-590kc) Manilla Wagner Kessler, contralto.
8:15 7:15 6:15 5:15 4:15
WABC (325.9m-920kc) Lads and Lasses.
8:30 7:30 6:30 5:30 4:30
KDKA (315.6m-950kc) Sketch by Richard Kountz.
WBRR (256.3m-1170kc) At Home with Frank and Ernest.
8 7 6 5 4
WFAA (499.7m-600kc) Chine's Collegians.
WIP (508.2m-590kc) Frank P. Oppecker, violinist.
9 8 7 6 5
KFNF (270.1m-1110kc) Bob's Hawaiian trio.
WIP (508.2m-590kc) University riondards.
9:30 8:30 7:30 6:30 5:30
WRAJ (499.7m-600kc) Dorothy Hayes, violinist.
WFHH (365.6m-820kc) Mrs. Stanley C. Chestnut.
WMAQ (447.5m-670kc) Enlah Corner, contralto.
9:40 8:40 7:40 6:40 5:40
WIP (508.2m-590kc) Popular songs, Iry Hryan, Don Travaline.
10 9 8 7 6
WHZ (333.1m-900kc) Arcadia Ladies' quartet.
WCHD (344.6m-870kc) Mixed quartet.
WJR (440.9m-600kc) Manuel Girls.
10:30 9:30 8:30 7:30 6:30
KTHS (384.4m-780kc) Lon Chassy, violinist.
WABQ (261m-1150kc) Senator Hasenpfeifer.
WFAA (499.7m-600kc) William S. Lenley, Jr., tenor.
WIP (508.2m-590kc) Nat Larin and his Devon Park hotel orchestra.
WMAQ (447.5m-670kc) Hamiltions.
WDC (352.7m-850kc) Mrs. Carl Anderson, soprano.
WSDC (232.4m-1290kc) Lyttrone ensemble.
10:45 9:45 8:45 7:45 6:45
WABQ (261m-1150kc) A. Myerov, tenor.
11 10 9 8 7
WBHM (398.4m-770kc) Mysterel show.
WTAM (399.8m-750kc) Neapolitans.
11:15 10:15 9:15 8:15 7:15
WCFI (483.6m-620kc) Gramma theater stage show.
11:30 10:30 9:30 8:30 7:30
KNS (336.9m-890kc) Fitzgerald music company.
KFI (468.5m-640kc) Virginia Flohri, vocalist.
12:05 a. m. 11:05 10:05 9:05 8:05
KGMU (305.9m-980kc) Totem concert orchestra.
12:20 11:20 10:20 9:20 8:20
KFBN (233m-1290kc) Long Beach municipal band.
12:30 11:30 10:30 9:30 8:30
WBAP (499.7m-600kc) Consuelo's Mexican orchestra.
1 12 11 10 9
KGO (384.4m-780kc), KPO (422.3m-710kc), KF1 (468.5m-640kc), KGW (491.5m-610kc) "Hits and Hits of Victor Herbert."

Regular Tuesday Features Atlantic or Eastern Daylight Saving Time Stations

CKCL Toronto, Can. (356.9m-840kc) 7 p. m. hour of music; 8-10, orchestra; 10, studio program.
WAAM Newark, N. J. (348.6m-860kc) 6-11 p. m. musical.
WABC New York, N. Y. (325.9m-920kc) 7:30-11 p. m. program.
WABQ Philadelphia, Pa. (260.7m-1150kc) 6-12:30 a. m. program.
WBRR New York, N. Y. (256.3m-1170kc) 7 p. m. orchestra; 7, radio field.
WBZ Springfield, Mass. (333.1m-900kc) 6:15 p. m. orchestra; 8, WEAF; 10, Jesters; 10:30, musicale.
WCAE Pittsburgh, Pa. (516.9m-580kc) 6 p. m. dinner concert; 8, musicale; 9, WEAF; 10:30, dance music.
WEAF New York, N. Y. (491.5m-610kc) 8, orchestra.
WGR, WEL, WVI, WJZ, Songs of the City; WTAG, KSD, WEL, WRC, WTAM, WVI, WOL, WVIC; 9, time; WEEL, WJAR, WFC, WRC, WCAE, WTAM, WVI, WSAI, WOC, KSD, WGY, WMAQ; 9, Evening hour; WEEL, WJAR, WVG, WEL, WRC, WCAE, WTAM, WVI, WSAI, WGN, KSD, WOC, WCO, WGY, WHAS, WSM, WSB, WMC, WDAF; 10, Coco Cola girl, WEEL, WGR, WEL, WRC, WCAE, WVI, KSD, WHAS, WSM, WSB, WMC, WDAF; 10, Coco Cola girl, WEEL, WGR, WEL, WRC, WCAE, WVI, KSD, WHAS, WSM, WSB, WMC, WDAF; 10, WCAE, WVI; 10:45, Cavalcade, WGR, WEL, WRC, WSHL, WTAM, WVI, KSD, WGY, WSAI, WHAS, WDAF; 11:30, orchestra.
WEB3 New York, N. Y. (370.2m-810kc) 7 p. m. program; 8, address; 8:20, orchestra.
WEEL Boston, Mass. (447.5m-670kc) 7:30 p. m. musical; 9, WEAF; 10:30, cruising the air.
WFI Philadelphia, Pa. (405.2m-740kc) 6:30 p. m. orchestra; 8, WEAF.
WGBS New York, N. Y. (348.6m-860kc) 7:30-11:30 p. m. program.
WGR Buffalo, N. Y. (302.8m-990kc) 7-10 p. m. program.
WHN New York, N. Y. (394.5m-760kc) 6:15 p. m. program; 11:30, Silver Shipper orchestra.
WICC Bridgeport, Conn. (214.2m-1400kc) 9:15 p. m. musical.
WIP Philadelphia, Pa. (508.2m-590kc) 8 p. m. recital; 10, weekly movie; 10:30, orchestra.
WJZ New York, N. Y. (454.2m-660kc) 7 p. m. correct time; 8, Stromberg Carlson hour, WJZ-WJZA, KDKA, KYW, WJR, WHAM; 9, Continentals, KDKA, KYW, WBAL, WJR; 10, correct time, WBZ, WJZA, KDKA, KYW, WBAL, WJR; 10, to be announced; 10:30, orchestra.
WMAK Buffalo, N. Y. (545.1m-550kc) 6:15 p. m. movie club; 8, theater program; 11:30, musicale.
WMCA New York, N. Y. (370.2m-810kc) 6:25 p. m. baseball; 6:30, orchestra; 10, Italian hour of song; 11, Hotel McAlpin orchestra.
WMSC New York, N. Y. (236m-1270kc) 6-9:30 p. m. program; 7:30-11:15, orchestras.
WMAQ Boston, Mass. (352.7m-850kc) 6 p. m. Smilers; 8, program; 9, varied program.
WOR New York, N. Y. (422.3m-710kc) 6:15 p. m. children's hour; 6:30-11:30, program; 11:30, news; 11:35, dance orchestra.
WPG Atlantic City, N. J. (272.6m-1100kc) 7:10 p. m. organ; 9:35, concert; 10:30, Marcelle duo; 11, dance orchestra; 12, organ.

Eastern Standard or Central Daylight Saving Time Stations

KDKA Pittsburgh, Pa. (315.6m-950kc) 6:45 p. m. program; 8, WJZ; 9, WJZ; 10:35, Grand theater revue.
KYW Chicago, Ill. (526m-870kc) 7-9 p. m. WJZ; 9, classical; 10:30-11:55, program.
WAIU Columbus, Ohio (282.8m-1050kc) 10 p. m. Hiram Hardtackle.
WBAL Baltimore, Md. (285.5m-1050kc) 6:30-7:30 p. m. dinner music; 7:30, quartet; 8, WEAF; 9-10, ensemble.
WBBM Chicago, Ill. (389.4m-770kc) 7-10 p. m. program; 10, minstrel.
WBCN Chicago, Ill. (288.3m-1040kc) 7 p. m. popular program.
WCFL Chicago, Ill. (483.6m-620kc) 6 p. m. labor hour; 8:30, question box; 10:15, stage show; 11, orchestra.
WCSH Portland, Me. (361.2m-830kc) 9 p. m. orchestra; 10, WEAF.
WCX Detroit, Mich. (440.9m-890kc) 6 p. m. dinner concert; 10, Red Apple club.

FARMERS' PROGRAM INDEX

Special Farm Features

Weather

Local Time

KDKA, 10 a. m., 10:55 p. m.
KFH, 8:30 p. m.
KFNF, 7:30 a. m., 12:40 p. m.
KFOA, 4:30 p. m.
KFAVI, 10:30 a. m.
KGA, 6 p. m.
KGO, 12:30 p. m., 6:55 p. m.
KGW, 10 a. m., 7:30 p. m.
KJR, 12 p. m.
KMMJ, 9:30 a. m., 12:30 p. m.
KMOX, 1 p. m.
KOIL, 11:45 a. m., 5:50 p. m.
KOMO, 12:15 p. m., 8 p. m.
KPO, 12 p. m.
KYW, 10:55 a. m., 11:55 p. m.
WABC, 11:55 a. m., 11 p. m.
WBZ, 11:10 p. m.
WCAE, 3:40 p. m.
WCSH, 7:10 p. m.
WCCO, 9:45 a. m., 1 p. m., 10 p. m.
WDAF, 5:45 p. m.
WDBO, 7:40 p. m.
WEEL, 11:10 p. m.
WFAA, 10:30 a. m., 9:30 p. m.
WGV, 12:01 p. m.
WHAD, 10:30 a. m., 2 p. m.
WHO, 9:45 a. m., 12:05 p. m.
WIP, 1:30 p. m.
WIZ, 2 p. m.
WOAI, 10 a. m.
WOC, 12:30 p. m.
WOI, 10:30 a. m.
WOO, 11:30 a. m., 10:05 p. m.
WOJ, 10:30 a. m.
WSM, 11:45 a. m.
WTAG, 12:59 p. m.
WTIC, 11:55 a. m., 10 p. m.

Monday

Eastern	Central	Mountain	Pacific
9 a. m.	8	7	6
KMMJ (379.5m-790kc), Poultry talks.			9:20
12:20 p. m.	11:20	10:20	
WCSH (361.2m-830kc), Farm program.			9:45
12:45	11:45	10:45	
WIK (265.3m-1130kc), U. S. Farm flashes.			10
12	11	10	
WCCO (405.2m-740kc), Farm hour.			
WBB (336.9m-890kc), Farm flashes.			10:15
WKAAR (230.6m-1290kc), Farm talks.			10:15
1:15	12:15	11:15	
WTAW (309.1m-970kc), Farm talks.			10:20
1:20	12:20	11:20	
WGBF (236m-1270kc)			10:35
WEAO (282.8m-1060kc), Timely hints to farmers.			10:35
1:35	12:35	11:35	
KSAAC (333.1m-900kc), Farm talks.			10:45
1:45	12:45	11:45	
WMAQ (447.5m-670kc), Prairie Farmer.			2:30
5:30	4:30	3:30	
KFN (270.1m-1110kc), Poultry talk.			3:20
6:20	5:20	4:20	
WDDO (288.3m-1040kc), Farm flashes.			4:30
7:30	6:30	5:30	
KSAAC (333.1m-900kc), Farm courses.			6:30
9:30	8:30	7:30	
KOB (394.5m-760kc)			

Tuesday

Eastern	Central	Mountain	Pacific
9 a. m.	8	7	6
KMMJ (379.5m-790kc), Poultry talks.			8:20
11:20	10:20	9:20	
WCSH (361.2m-830kc), Farm features.			

KFH Wichita, Kan. (245.8m-1220kc) 7:30 p. m. Story Lady; 8:15, serenaders.
KFNF Shemandoah, Iowa (270.1m-1110kc) 7 p. m. concert; 8:30, Landscape short course.
KFVE St. Louis, Mo. (234.2m-1280kc) 7:30 p. m. dinner concert; 8, program; 10, popular program.
KMA Shenandoah, Iowa (270.1m-1110kc) 9-11 p. m. Minnie music.
KMMJ Clay Center, Neb. (379.5m-790kc) 6 p. m. organ; 7-15, band, octet.
KOIL Council Bluffs, Iowa (277.6m-1080kc) 6 p. m. Hotel Lassen program; concert ensemble; 7:30, feature program; 9, Shepard Laboratories program; 10, "Mose and Charley"; "The Crosby Twins"; 11, program.
KPRC Houston, Texas (296.9m-1010kc) 7:30-9:30 p. m. studio concert.
KSD St. Louis, Mo. (545.1m-550kc) 6 p. m. WEAF; 6:30, WEAF.
KTHS Hot Springs National Park, Ark. (384.4m-780kc) 8:30 p. m. feature program; 10:10, musicale.
KYOO Bristow, Okla. (348.6m-860kc) 7 p. m. musical.
KWVG Brownsville, Tex. (225.4m-1330kc) 8:30 p. m. recital.
WAMD Minneapolis, Minn. (225.4m-1330kc) 6:15 p. m. organ recital; 10:45, dance program.
WBAP Ft. Worth, Tex. (499.7m-600kc) 7:30-8:30 p. m. program; 9:30-10:30, band; 10:30-12, musicale.
WCCO Minneapolis-St. Paul, Minn. (405.2m-740kc) 7 p. m. dinner concert; 9, musical program; 11:30, organ recital, Leonard Leigh.
WCOA Pensacola, Fla. (249.9m-1200kc) 8 p. m. program.
WDAF Kansas City, Mo. (379.2m-810kc) 8-9, WEAF; 9-10, musicale; 11:45-1, Nighthawk frolic.
WDDO Chattanooga, Tenn. (245.8m-1220kc) 7-8 p. m. dinner hour; 9, studio program; 10, popular music.
WFAA Dallas, Tex. (499.7m-600kc) 6:30-7:30 p. m. feature program; 8:30-9:30, feature.
WFIW Hopkinsville, Ky. (280.2m-1070kc) 8-11 p. m. program.
WGBF Evansville, Ind. (236.1m-1270kc) 7:30 p. m. gospel songs; 8:30, old time requests; 9:30, Troubadours.
WHAD Milwaukee, Wis. (293.9m-1020kc) 6:15 p. m. dance music; 8, organ; 9:30, musicale.

Eastern	Central	Mountain	Pacific
12:45 p. m.	11:45	10:45	9:45
WJK (265.3m-1130kc), U. S. farm flashes.			
WSM (340.7m-880kc), Farm talk.			
1	12	11	10
WCCO (405.2m-740kc), Farm hour.			
WBB (336.9m-890kc), Farm flashes.			
WLS (344.6m-870kc), Dinner bell program.			10:20
1:20	12:20	11:20	

NEW SYMPHONY ORCHESTRA FROM WWNC

WDDB Orlando, Fla. (288.3m-1040kc) 8 p. m. classical program; 9:15, dance program.
 WEBH Chicago, Ill. (365.6m-820kc) 7-8 p. m. orchestra, artists; 9:11, Uptown theater stage presentation.
 WENR Chicago, Ill. (288.3m-1040kc) 6 p. m. organ; 8, classical program; 9:30, popular program.
 WFHH Clearwater, Fla. (365.6m-820kc) 8:30 p. m. musical.
 WGHP Detroit, Mich. (319m-940kc) 7-8 p. m. Evening musicale; 8:10, Detroit symphony.
 WGN Chicago, Ill. (305.9m-980kc) 6:10 p. m. Punch and Judy; 6:30, old fashioned minuet; 8, WEAF; 9, musicale; 9:30, recital; 10, Sam 'n' Henry; 10:10, music box; 10:20, musicale; 10:50, concert.
 WGY Schenectady, N. Y. (379.5m-790kc) 6:45 p. m. musicale; 7:30, Beech-Nut program; 8, WEAF; 9, studio musicale; 9:30, WEAF.
 WIJK Cleveland, O. (265.3m-1130kc) 6:30 p. m. program; 9, musicale; 11, Rubberneck Man; 11:01, studio program.
 WHT Chicago, Ill. (416.4m-720kc) 8-9 p. m. 11-12.
 WIBO Chicago, Ill. (416.4m-720kc) 6-8 p. m., 10-11.
 WJAX Jacksonville, Fla. (336.9m-890kc) 7 p. m. dinner music; 8, popular program; 10, Little symphony.
 WJAZ Chicago, Ill. (263m-1140kc) 7:30 p. m. orchestra; 8:15, program; 9, diversified program.
 WJDD Chicago, Ill. (365.6m-820kc) 8-9 p. m. Mooseheart hour; 11-1, Palmer House Victorians; Matinee and Grady.
 WJR Detroit, Mich. (440.9m-680kc) 7 p. m. WJZ; 9, Mammal Girls; 9:30, Sandy and Gal; 9:40, Heerec flowers.
 WLBB Chicago, Ill. (305.9m-980kc) 7 p. m. ensemble; 11-12:15, organ artists.
 WLS Chicago, Ill. (344.6m-870kc) 6:30 p. m. orchestra; 6:45, WLS players.
 WLW Cincinnati, Ohio (428.3m-700kc) 7:30 p. m. Castle Farm; 9, Funicia concert.
 WMAQ Chicago, Ill. (447.5m-670kc) 7 p. m. orchestra; 9, WEAF; 9:30, orchestra; 12, popular program.
 WMBB Chicago, Ill. (252m-1190kc) 6-8:30 p. m. Trianon ensemble; 8:30-10, orchestra, artists.
 WORD Chicago, Ill. (275m-1090kc) 7 p. m. program.
 WOK Homewood, Ill. (252m-1190kc) 10-12:30 a. m. Del Lampe and Trianon orchestra; Hawaiian serenaders; Jack and Jill; George Allen, Marie Tully.
 WRC Washington, D. C. (468.5m-640kc) 7 p. m. to be announced; 8-10, WEAF.
 WSAI Cincinnati, Ohio (361.2m-830kc) 7 p. m. orchestra; 8, WEAF; 9, program.
 WSBC Chicago, Ill. (232.4m-1290kc) 5-7 p. m. Hugh Swift and his Serenaders; dinner concert; 9:30-1, popular program.
 WSEA Norfolk, Va. (218.8m-1370kc) 7 p. m. dinner concert; 8:30, musicale; 11, dance music.
 WTAM Cleveland, Ohio (399.8m-750kc) 6 p. m. State theater vaudeville program; 7, orchestra; 8, WEAF; 9, program; 9:30, WEAF; 10, Neapolitans; 11, Allen theater revue.
 WTIC Hartford, Conn. (475.9m-630kc) 6:30 p. m. Avonkeys; 7:30, WEAF; 8, Harmony Bells; 8:30, orchestra.
 WWJ Detroit, Mich. (374.8m-800kc) 6 p. m. dinner concert; 7, WEAF.
 WWNC Asheville, N. C. (296.9m-1010kc) 7 p. m. dinner music.

Central Standard Time Stations

KFAB Lincoln, Neb. (309.1m-970kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:05-10:50, University of Nebraska program.
 KFH Wichita, Kan. (245.8m-1220kc) 7:30 p. m. entertainers; 8, classical music.
 KFNF Shenandoah, Iowa (270.1m-1110kc) 7 p. m. musicale.
 KFVE St. Louis, Mo. (234.2m-1280kc) 7 p. m. Hotel Chave orchestra; 8, program; 10, dance orchestra.
 KLDS Independence, Mo. (233m-1260kc) 7:20 p. m. Walt Filkin, Missouri's poet; 7:40, lecture; 8, program.
 KMA Shenandoah, Ia. (270.1m-1110kc) 9-11 p. m. May's mandolin musicians, mixed quartet.
 KMMJ Clay Center, Neb. (228.9m-1310kc) 6:30 p. m. musicale; 8, orchestra; 11, organ.
 KOIL Council Bluffs, Iowa (277.6m-1080kc) 6 p. m. ensemble; 7:30, baseball; 8, musicale; 11, frolic; Lincoln State Players.
 KPRC Houston, Texas (296.9m-1010kc) 7:30-9:30 p. m. studio concert.
 KSD St. Louis, Mo. (545.1m-550kc) 7 p. m. WEAF; 9, program; 8:30, WEAF.
 KTHS Hot Springs National Park, Ark. (364.4m-780kc) 8:30 p. m. lecture program; 8:50-10, dance orchestra.
 KVOD Bristow, Okla. (348.6m-860kc) 6 p. m. dinner concert; 7, studio program; 8, musical.
 WAMD Minneapolis, Minn. (225.4m-1330kc) 6:15 p. m. organ recital; 7, musical feature program; 11, vaudeville.
 WBAP Ft. Worth, Tex. (499.7m-600kc) 7:30-8:30 p. m. musicale; 9:30-11, program.
 WCBZ Zion City, Ill. (344.6m-870kc) 8 p. m. chorus, celestial bells.
 WCCO Minneapolis-St. Paul, Minn. (405.2m-740kc) 7 p. m. WEAF; 8:30, musicale; 9:30, musicale; 9:30, musical program.
 WDAF Kansas City, Mo. (370.2m-810kc) 8 p. m. musicale; 8:30, WEAF; 11:45-1, Nighthawk frolic.
 WDDO Chattanooga, Tenn. (245.8m-1220kc) 7 p. m. dinner concert.
 WFAX Dallas, Tex. (499.7m-600kc) 6:30 p. m. talk; 8:30, musicale; 11-12, theater hour.
 WGBF Evansville, Ind. (236.1m-1270kc) 7 p. m. organ; 8:05, Eskimos.
 WHAD Milwaukee, Wis. (293.9m-1020kc) 6:15 p. m. organ; 8:30, Poel's corner; 9:30, Wisconsin theater review; 10:30, dance; 11:30, organ.
 WHAS Louisville, Ky. (461.3m-650kc) 7 p. m. WEAF.
 WIIB Kansas City, Mo. (336.9m-890kc) 7 p. m. dinner concert; 8, evening concert.
 WIIO Des Moines, Iowa (535.4m-560kc) 6:30 p. m. orchestra; 8:30, string trio.
 WLAC Nashville, Tenn. (226m-1330kc) 9 p. m. sojano; 11, studio program.
 WOAI San Antonio, Tex. (302.8m-990kc) 6:15 p. m. organ; 8:30, players.
 WOC Davenport, Ia. (352.7m-850kc) 7 p. m. WEAF; 8, musicale; 8:30, program.
 WOW Omaha, Neb. (508.2m-590kc) 6 p. m. classical program; 6:50, Randall's Royal Fontenelle orchestra; 9, popular and old time music.
 WRR Dallas, Tex. (352.7m-850kc) 6-7 p. m. musical program; 8-9, dance orchestra.
 WSB Atlanta, Ga. (475.9m-630kc) 8 p. m. WEAF; 11:45, orchestra.
 WSM Nashville, Tenn. (340.7m-880kc) 6-7 p. m. dinner concert; Andrew Jackson hotel orchestra; 7-8, WEAF; 8-8:30, WEAF; 8:40, lullaby; 8:45, studio program.

Mountain Standard Time Stations

KOA Denver, Colo. (325.9m-920kc) 6:30 p. m. dinner concert; 8, orchestra.

Pacific Standard Time Stations

KEX Portland, Ore. (399.9m-1250kc) 6:30-7:30 p. m. trio; 8, program; 9, chorus; 10:30, dance music.
 KFI Los Angeles, Calif. (468.5m-840kc) 7-8 p. m. serenaders; 8:45, program; 9-10, orange network; 10-11, dance orchestra.
 KFOA Seattle Wash (447.5m-670kc) 9 p. m. chain program.
 KFON Long Beach, Calif. (233m-1290kc) 7 p. m. band; 10, organ; 11, orchestra.
 KFRC San Francisco, Calif. (454.3m-660kc) 6:30 p. m. trio; 7, dance orchestra; 8, movie club; 8:35, musicale; 8:50, program.
 KFD San Diego, Calif. (440.9m-690kc) 7 p. m. recital; 9, State college program; 9, musicale.
 KFVB Hollywood, Calif. (361.2m-830kc) 6-7 p. m. dinner hour; 8-9, studio program; 9:10 p. m. musical; 10-11 p. m. Rainbow hour.
 KFWI San Francisco, Calif. (267m-1120kc) 7:15 p. m. talk; 8, musicale; 9, orchestra; 11, mysterious hour.
 KGA Spokane, Wash. (260.7m-1150kc) 3 p. m. program; 9, studio program.
 KO Oakland, Calif. (384.4m-780kc) 6:45 p. m. Stanislas Bem's Little symphony; 8-9, Pilgrims; 9-10, National Broadcasting Company; 10, "HIM" and "JIM"; 10:30, surprise broadcasting.



That charming "Ukulele Lady" of KTHS, Hot Springs National Park, is Grace Brown, the smiling beauty above. When she entertains—and she sings and plays the ukulele every week—the mail at Hot Springs is so heavy it is impossible to answer it all.

HIGH LIGHTS OF THE AIR

NOLEE JONES, KFI cellist, is but thirteen years of age, but unless this information were conveyed by the announcer, the listener would never suspect that he was listening to a child artist. For she plays the cello, distinctly a grown up instrument, with all the finesse and artistry of one more than twice her years.

Allen McQuhae, the Irish tenor, whose voice has many times charmed the large audience of the WEAF network, will give the Sunday, August 7, and Sunday, August 14, concerts during the Atwater Kent hour.

KOA listeners will have opportunity to settle definitely and finally the much discussed question, "Are women Radio artists as popular as men?" Wednesday night, August 10. Part I of the program will feature compositions written, sung and played exclusively by women, while Part II, presented by the male contingent, will be selections entirely masculine in origin and character.

Pasquale Amato, Metropolitan Opera company baritone, is the star attraction at WPG, Sunday, August

14. He will sing selections from "Girl of the Golden West," "Cyrano," and other operas which he has interpreted during his grand opera appearances in New York city. Tune in at 9:15 p. m. Eastern daylight saving time.

The Singers club of Virginia will introduce Radio listeners to "Songs of the South" Thursday evening, August 18. These lovely old time songs will give the northern listener the feeling of Dixie.

If you have not heard Prof. Frederick Starr give his talk on "Japan," do not fall to time in Saturday night, August 27. No one understands the Japanese point of view as does this former University of Chicago professor.

A new symphony orchestra has been added to the many musical attractions which are being broadcast by Station WWNC, Asheville. Composed of thirty well trained musicians, under the leadership of Lamar Stringfield, this organization will give an hour of classical and semi-classical music each Sunday afternoon at 4 p. m. Eastern standard time.

WEDNESDAY, AUGUST 3 Headliners

Atlantic	Eastern	Central	Mountain	Pacific
6:25 p. m.	5:25	4:25	3:25	2:25
WABQ (261m-1150kc) Mixed Jubilee singers.	WBBR (256.3m-1170kc) Joseph Bonaccorso, violinist.	WJZ (454.2m-660kc) George Hall's orchestra.	WTIC (475.9m-630kc) Katherine Sullivan, pianist.	WHR (303m-940kc) Melody Way club.
9:30	8:30	7:30	6:30	5:30
CFCA (356.9m-840kc) Luigi Romanelli and his orchestra.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WTR (475.9m-630kc) Harlia A. Harwood, tenor.	WJAX (336.9m-890kc) Harlia A. Harwood, tenor.	WJAX (336.9m-890kc) Harlia A. Harwood, tenor.
10:30	9:30	8:30	7:30	6:30
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
11:30	10:30	9:30	8:30	7:30
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
12:15	11:15	10:15	9:15	8:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
1:15	12:15	11:15	10:15	9:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
2:15	1:15	12:15	11:15	10:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
3:15	2:15	1:15	12:15	11:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
4:15	3:15	2:15	1:15	12:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
5:15	4:15	3:15	2:15	1:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
6:15	5:15	4:15	3:15	2:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
7:15	6:15	5:15	4:15	3:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
8:15	7:15	6:15	5:15	4:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
9:15	8:15	7:15	6:15	5:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
10:15	9:15	8:15	7:15	6:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
11:15	10:15	9:15	8:15	7:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
12:15	11:15	10:15	9:15	8:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.

Tuesday, silent night for: CFCA, KFII, KIX, KOB, KWGC, WEMC, WFIW, WLIT, WLWL, WOS, WWSB, WTAC.

Atlantic	Eastern	Central	Mountain	Pacific
8:10 p. m.	8:10	7:10	6:10	5:10
WABQ (261m-1150kc) Mixed Jubilee singers.	WBBR (256.3m-1170kc) Joseph Bonaccorso, violinist.	WJZ (454.2m-660kc) George Hall's orchestra.	WTIC (475.9m-630kc) Katherine Sullivan, pianist.	WHR (303m-940kc) Melody Way club.
9:30	8:30	7:30	6:30	5:30
CFCA (356.9m-840kc) Luigi Romanelli and his orchestra.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WTR (475.9m-630kc) Harlia A. Harwood, tenor.	WJAX (336.9m-890kc) Harlia A. Harwood, tenor.	WJAX (336.9m-890kc) Harlia A. Harwood, tenor.
10:30	9:30	8:30	7:30	6:30
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
11:30	10:30	9:30	8:30	7:30
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
12:15	11:15	10:15	9:15	8:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
1:15	12:15	11:15	10:15	9:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
2:15	1:15	12:15	11:15	10:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
3:15	2:15	1:15	12:15	11:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
4:15	3:15	2:15	1:15	12:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
5:15	4:15	3:15	2:15	1:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
6:15	5:15	4:15	3:15	2:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
7:15	6:15	5:15	4:15	3:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
8:15	7:15	6:15	5:15	4:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
9:15	8:15	7:15	6:15	5:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
10:15	9:15	8:15	7:15	6:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
11:15	10:15	9:15	8:15	7:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.
12:15	11:15	10:15	9:15	8:15
WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.	WMAQ (447.5m-670kc) Gladys Petersen, soprano.

Regular Wednesday Features Atlantic or Eastern Daylight Saving Time Stations

CFCA Toronto, Can. (357m-840kc) 7 p. m. orchestra; 8

WMBB Chicago, Ill. (252m-1190kc) 6-10 p. m. ensemble, artists.
WOK Homewood, Ill. (252m-1190kc) 9-12:30 a. m. Del Lampe and Trionan orchestra; Hawaiian serenaders; Jack and Jill; George Allen, Marie Tully.
WORD Chicago, Ill. (275m-1090kc) 7 p. m. North Shore line; 9, choral singers; 9:15, Bible lecture.
WQJ Chicago, Ill. (447.5m-670kc) 9:45-12, orchestra.
WRC Washington, D. C. (468.5m-640kc) 7 p. m. orchestra; 7:30-11, WEAF.
WRVA Richmond, Va. (254.1m-1180kc) 8 p. m. musicale.
WSAI Cincinnati, Ohio (361.2m-630kc) 7:15 p. m. chimes; 7:30, musicale; 8:10, musicale.
WSB Chicago, Ill. (232.4m-1290kc) 5-7 p. m. Hugh Swift and his Serenaders; dinner concert; 9:30-1, popular program.
WSEA Norfolk, Va. (218.8m-1370kc) 7 p. m. dinner concert; 10, dance music.
WTAM Cleveland, O. (399.8m-750kc) 6 p. m. orchestra; 7, talks; 8, studio recital; 8:30, WEAF; 10:30, studio program; 11, orchestra.
WTIC Hartford, Conn. (475.9m-630kc) 7-9 p. m. program.
WWJ Detroit, Mich. (374.8m-800kc) 6 p. m. dinner concert; 7:30, musicale; 8, WEAF; 9, WEAF.
WWNC Asheville, N. C. (296.9m-1010kc) 7 p. m. dinner music.

Central Standard Time Stations

KFAB Lincoln Nebr. (309.1m-970kc) 5:30-6:30 p. m. dinner concert; 8:30-11, orchestra.
KFH Wichita, Kan. (245.9m-1220kc) 7:30 p. m. entertainers.
KFNC Shenandoah, Ia. (270.1m-1110kc) 7 p. m. concert.
KFVE St. Louis, Mo. (234.2m-1280kc) 7 p. m. orchestra; 8, artists; 10, popular concert.
KOIL Council Bluffs, Ia. (277.6m-1080kc) 8 p. m. orchestra; 11, ensemble.
KPRC Houston, Tex. (298.9m-1010kc) 7:30 p. m. Jack Willrich's dance orchestra.
KSD St. Louis, Mo. (545.1m-550kc) 7 p. m. WEAF.
KTHS Hot Springs, Ark. (384.4m-780kc) 8:30 p. m. chamber music; 9:45, pianist.
KVOO Bristow, Okla. (348.6m-860kc) 6 p. m. organ program; 7, studio recital; 8, musicale.
WAMD Minneapolis, Minn. (225.4m-1330kc) 10:45 p. m. frolic.
WCOC Minneapolis-St. Paul, Minn. (405.2m-740kc) 7 p. m. WEAF; 8:30, musical program; 10, musical program.
WCOA Pensacola, Fla. (249.9m-1200kc) 8 p. m. program.
WDAF Kansas City, Mo. (370.2m-810kc) 8-8:30 p. m. popular program; 9:30-10, Cavaliers; 11:45-1 a. m. Nighthawk frolic.
WDDO Chattanooga, Tenn. (245.8m-1220kc) 7-8 p. m. dinner program; 8:30-10:30, musicale.
WFIW Hopkinsville, Ky. (280.2m-1070kc) 8:30-11 p. m. program.
WHAD Milwaukee, Wis. (293.9m-1020kc) 8 p. m. concert; 10:30, dance selections.
WHAS Louisville, Ky. (461.3m-650kc) 7-8 p. m. WEAF; 8:30, program.
WHB Kansas City, Mo. (336.9m-890kc) 7-8 p. m. string trio.
WHO Des Moines, Ia. (535.4m-560kc) 6:30 p. m. Little symphony; 8:30, Harmony Twins; 9:30, orchestra.
WLAC Nashville, Tenn. (228m-1330kc) 7 p. m. classical program; 8, popular music.
WOAI San Antonio, Tex. (302.8m-990kc) 8:30-9:30 p. m. Kelvinator hour.
WOC Davenport, Ia. (352.7m-850kc) 7:30 p. m. WEAF; 8:30, musicale.
WSB Atlanta, Ga. (475.9m-630kc) 7 p. m. WJZ; 8, concert; 10:45, musicale.
WSM Nashville, Tenn. (340.7m-880kc) 6:15 p. m. dinner concert; Andrew Jackson hotel orchestra; 8, WEAF; 8:30, studio program.
WSMB New Orleans, La. (322.4m-930kc) 8:30-10:30 p. m. Public School of the Air program; features.

Baseball Scores

Local Time

KDKA (315.6m-950kc) Every half hour from 2 p. m. Sun. 5:30 p. m., 6:30.
KFVE (239.9m-1250kc) Daily, 6:45 p. m.
KFKX (526m-570kc) Daily, 12:55 p. m., 4, 5, 7.
KFOA (447.5m-670kc) Daily, 6 p. m.
KGA (260.7m-1150kc) Daily, 6:01 p. m.
KGO (384.4m-780kc) Daily, 7:06 p. m.
KOIL (277.6m-1080kc) Daily, ex Thurs, Sun, 7:30 p. m.
KJR (342.6m-860kc) Daily, 6:20 p. m.
KLX (506m-590kc) Daily, 3 p. m.
KMOX (299.8m-1000kc) Daily, 2:15 p. m.
KPRC (293.9m-1030kc) Daily, 4 p. m. Sun, 3 p. m.
KYW (526m-570kc) Daily, ex Sun, 6:30 p. m.
WAMD (225.4m-1330kc) Daily, 6:05 p. m.
WBAP (459.7m-600kc) Daily, 7:30 p. m.
WBZ (333.1m-900kc) Daily, ex Sat, Sun, 7 p. m. Sat, 7:30 p. m.
WCAE (516.9m-580kc) Daily, 2:30 p. m., 4:30, Sun, 5:30.
WCCO (405.2m-740kc) Daily, 5:55 p. m.
WDIO (288.3m-1040kc) Daily, 9 p. m.
WEAF (491.5m-610kc) Daily, 6:55 p. m.
WEHH (365.6m-820kc) Daily, 9 p. m.
WGN (305.9m-950kc) Daily, 2:50 p. m. Sun, 3 p. m.
WGY (379.5m-790kc) Daily, 6:20 p. m.
WHAU (293.9m-1020kc) Daily, 7:05 p. m.
WHAS (461.3m-650kc) Daily, 4 p. m.
WIP (508.2m-590kc) Daily and Sun, 6:05 p. m.
WJR (440.9m-680kc) 3 p. m.
WJZ (454.2m-660kc) Daily, 5:30 p. m., 6:50, Sun, 6:50.
WLIT (405.2m-740kc) Daily, ex Sun, 5:30 p. m.
WLW (428.3m-700kc) Daily, 6:55 p. m.
WMAQ (545.1m-550kc) Daily, ex Sun, 7:15 p. m.
WMAK (447.5m-670kc) Daily, 6:50 p. m.
WOAI (302.8m-990kc) Every 30 min. from 4-6 p. m.
WOW (508.2m-590kc) Daily, 6:40 p. m.
WPG (272.6m-1100kc) Daily, 7 p. m.
WRVA (254.1m-1180kc) Mon, Wed, Fri, 9 p. m.
WSB (428.3m-700kc) Daily, 3 p. m.
WTAG (516.9m-580kc) Daily and Sun, 7:30 p. m.
WTIC (475.9m-630kc) Daily, ex Sat, Sun, 5:50 p. m.
WRC (468.5m-640kc) Daily, 5:30 p. m.
WWJ (374.8m-800kc) Daily, 4 p. m., 6:30.

Mountain Standard Time Stations

KOA Denver, Colo. (325.9m-970kc) 8 p. m. Scheneman's Colorado orchestra; 8:15, studio program.
Pacific Standard Time Stations
REX Portland, Ore. (239.9m-1250kc) 7:30 p. m. musicale.
KFI Los Angeles, Calif. (468.5m-610kc) 7 p. m. orchestra; 7:30, Nick Harris; 8:9, program, California Petroleum corp.; 9, orange network; 10, classic music.
KFOA Seattle, Wash. (447.5m-670kc) 5-7 p. m. program; 8-9, orchestra; 9-10, orange chain.
KFON Long Beach, Calif. (233m-1250kc) 8 p. m. band; 9, orchestra; 10, orchestra; 11, orchestra.
KFRC San Francisco, Calif. (454.3m-660kc) 6:30 p. m. trio; 7, dance orchestra; 10, orchestra.
KFSD San Diego, Calif. (440.9m-660kc) 7 p. m. program; 9, program.
KFWB Hollywood, Calif. (361.2m-830kc) 6:7 p. m. dinner hour; 7:30, news; 8:9, features; 9-10, orchestra; 10-11, Kaula orchestra.
KFWI San Francisco, Calif. (267.7m-1120kc) 7:15 p. m. talks; 8, studio program; 10:05, orchestra.
KGA Spokane, Wash. (260.7m-1150kc) 6 p. m. baseball scores; 8, organ; 9:30, artists.
KGO Oakland, Calif. (384.4m-780kc) 6:55 p. m. Stauslas Hen's Little Symphony; 8, vacation program; 9, National Broadcasting company; 10, orchestra.
KGW Portland, Ore. (491.5m-610kc) 8:9 p. m. concert; 9-10, National Broadcasting company.
KHJ Los Angeles, Calif. (405.2m-740kc) 6:30-7:30 p. m. children's hour; 8:10, musicale.
KHO Spokane, Wash. (370.2m-810kc) 9-10 p. m. KGW.
KJR Seattle, Wash. (345.6m-860kc) 6:30 p. m. dinner concert; 8-10, studio program.
KLX Oakland, Calif. (508.2m-590kc) 6:30-7 p. m. Athens Athletic club orchestra; 8:9, educational program; 9-10, program.
KNX Hollywood, Calif. (336.9m-890kc) 7-10 p. m. features; 11, Hotel Ambassador.
KOIN Portland Ore. (319m-940kc) 6-7 p. m. organ; 8-9, players; 9-10, studio program; 10-11, music.
KOMO Seattle, Wash. (305.9m-980kc) 7:30 p. m. Totem quartets; 9, orange chain; 10, orchestra.
KPO San Francisco, Calif. (422.3m-710kc) 6:30-7 p. m. States Restaurant orchestra; 7-7:30, Rudy Seiger's Fairmont hotel concert orchestra; 8-9, Atwater Kent artists; 9-10, orange network; 10-11, States Restaurant orchestra.
KTAB Oakland, Calif. (280.2m-1070kc) 8-10 p. m. program.
KYA San Francisco, Calif. (309.1m-970kc) 8-10 p. m. feature program.

Wednesday, silent night for: CKAC, CKCL, KFDM, KLDS, KMMJ, KPSN, KWVG, WBAP, WGB, WCSI, WFAA, WFI, WGBF, WGBS, WIP, WOW, WRR.

THURSDAY, AUGUST 4 Headlines

Atlantic	Eastern	Central	Mountain	Pacific
WJZ (454.2m-660kc)	6	5	4	3
Bill Whipple of Sweet Meadow				
7:15	6:15	5:15	4:15	3:15
WTHC (475.9m-630kc)	6:30	5:30	4:30	
J. W. Krich, baritone				
7:30	6:30	5:30	4:30	
WTHC (475.9m-630kc)	6:45	5:45	4:45	
Charles Zippelman, mandolin				
WBR (456.3m-1170kc)	7	6	5	4
Imperial male quartet				
8	7	6	5	4
WIP (508.2m-590kc)	7:30	6:30	5:30	4:30
Shenandoah male chorus				
8:30	7:30	6:30	5:30	
WPAI (289m-1050kc)	7:45	6:45	5:45	4:45
Hilberta Glynnville, soprano				
8:45	7:45	6:45	5:45	4:45
WABC (325.9m-920kc)	8	7	6	5
Four Negropolitans				
9	8	7	6	5
KPNE (270.1m-1110kc)	8:15	7:15	6:15	5:15
Mixed program				
8:15	7:15	6:15	5:15	
WBHM (398.4m-770kc)	8:30	7:30	6:30	5:30
Sunset male quartet				
8:30	7:30	6:30	5:30	
WIZ (333.1m-900kc)	8:45	7:45	6:45	5:45
Elks male quartet				
8:45	7:45	6:45	5:45	
WIP (508.2m-590kc)	9	8	7	6
Lord Calvert hour of music				
9	8	7	6	5
9:15	8:15	7:15	6:15	5:15
WABQ (267m-1150kc)	9:30	8:30	7:30	6:30
Minerva Rose Chadwin, soprano				
9:30	8:30	7:30	6:30	5:30
WABQ (267m-1150kc)	9:45	8:45	7:45	6:45
Society trio				
9:45	8:45	7:45	6:45	5:45
WEHH (365.6m-820kc)	10	9	8	7
Post Music company				
10	9	8	7	6
WJZ (454.2m-660kc)	10:15	9:15	8:15	7:15
WCCO (405.2m-740kc)	10:30	9:30	8:30	7:30
WBY (379.5m-790kc)	10:45	9:45	8:45	7:45
WMAQ (545.1m-550kc)	11	10	9	8
Ruel S. Hawke, tenor				
11	10	9	8	7
WIP (508.2m-590kc)	11:15	10:15	9:15	8:15
Russian choir				
11:15	10:15	9:15	8:15	7:15
WOC (352.7m-850kc)	11:30	10:30	9:30	8:30
Amanda Schmidt Lecot, soprano				
11:30	10:30	9:30	8:30	7:30
WRVA (254.1m-1180kc)	11:45	10:45	9:45	8:45
An Hour in Scotland				
11:45	10:45	9:45	8:45	7:45
10:30	9:30	8:30	7:30	6:30
KLX (506m-590kc)	11:55	10:55	9:55	8:55
Don Russell in song and story				

Pioneering is important but performance is more so

Most of the great improvements in radio power have been made by Balkite. First noiseless battery charging. Then successful light socket "B" power. Then trickle charging. And today, most important of all, Balkite "AB," a complete unit containing no battery in any form, supplying both "A" and "B" power directly from the light socket, and operating only while the set is in use.

Like Balkite "AB" above, but for the "B" circuit only. The accepted "B" power supply. Has probably the longest life of any device in radio. Three models at remarkably low prices. 90 volts, \$22.50. 135 volts, \$32.50. 180 volts, \$39.50.

Like Balkite "AB" above, but for the "A" circuit only. One of the most remarkable developments in radio. Price \$32.50.

The standard battery charger for radio "A" batteries. Noiseless. Can be used during reception. Three models, all trickle chargers. Prices, \$17.50, \$9.50, \$7.50.

Prices are slightly higher West of the Rockies and in Canada

Most of the great improvements in radio power have been made by Balkite. First noiseless battery charging. Then successful light socket "B" power. Then trickle charging. And today, most important of all, Balkite "AB," a complete unit containing no battery in any form, supplying both "A" and "B" power directly from the light socket, and operating only while the set is in use.

Important as this pioneering has been, yet it has not been the most important factor in making Balkite the leader. The real factor has been Balkite performance in the hands of its owners. That with 2,000,000 units in the field Balkite has a record of long life and freedom from trouble seldom equalled in any industry. That the first Balkite "B," purchased 5 years ago is still in use and will be for years to come. That with your radio dealer Balkite is a synonym for quality. That the electrolytic rectification developed and used by Balkite is so reliable that today it is standard on the signal systems of most of the railroads of the country. These facts have made Balkite one of the best-known names in radio.

Today, whatever type of set you own, whatever type of power equipment you want, Balkite has it. And production is so enormous that prices are astonishingly low. Balkite today costs no more than ordinary equipment. Your dealer will recommend the Balkite equipment you need for your set.

FANSTEEL PRODUCTS COMPANY, Inc., North Chicago, Ill.

FANSTEEL Balkite Radio Power Units



Balkite "AB"

A complete unit, replacing both "A" and "B" batteries and supplying both "A" and "B" current from the light socket. Contains no battery in any form. Operates only while the set is in use. Turns on and off at the light switch. Two models. 135 volts B current, \$59.50. 180 volts, \$67.50.



Balkite "B"

Like Balkite "AB" above, but for the "B" circuit only. The accepted "B" power supply. Has probably the longest life of any device in radio. Three models at remarkably low prices. 90 volts, \$22.50. 135 volts, \$32.50. 180 volts, \$39.50.



Balkite "A"

Like Balkite "AB" above, but for the "A" circuit only. One of the most remarkable developments in radio. Price \$32.50.



Balkite Charger

The standard battery charger for radio "A" batteries. Noiseless. Can be used during reception. Three models, all trickle chargers. Prices, \$17.50, \$9.50, \$7.50.

Prices are slightly higher West of the Rockies and in Canada



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Where guests are well cared for in the most modern manner
 Royal hospitality in the Queen City
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 Florentine Room
 most beautiful dining room in America
 Coffee Shop
 serving popular priced food a la carte and table d'hotel

RALPH HITZ, Manager

Atlantic Eastern Central Mountain Pacific
10:30 p.m. 9:30 8:30 7:30 6:30
WFAA (499.7m-600kc) Ashenden male quartet.
WSHC (232.4m-1290kc) Frolic.
11 10 9 8 7
WBHM (398.3m-770kc) Kay Rouayne, blues singer.
11:15 10:15 9:15 8:15 7:15
CECA (356.9m-840kc) Clifford G. McCormick, organist.
11:30 10:30 9:30 8:30 7:30
WBAP (499.7m-600kc) Royal comedy.
WLW (1428m-700kc) Cecile Falkenstein, pianist.
11:45 10:45 9:45 8:45 7:45
KTHS (384.4m-780kc) Leona Latone, pianist.
12 mid 9
KLO (384.4m-780kc) Paul Steindorff Radio light opera company.
WCFI (483.6m-620kc) Indiana male quartet.
WSAI (361.2m-830kc) Florence and Missouri Kimey.
WTAM (399.8m-750kc) Joe Cantor and his orchestra.
1 0 12 11 10 9
KFN (233m-1290kc) Long Beach opera company.
KJO (384.4m-780kc), KPI (422.3m-710kc), KFI (468.5m-640kc), KGW (491.5m-610kc), "La Masette."
4 3 2 1 12
KGM (305.9m-980kc) Totent popular trio.

Regular Thursday Features
Atlantic or Eastern Daylight Saving Time Stations

CFCA Toronto, Can. (357m-840kc) 11:15, organ.
CKNC Toronto, Can. (357m-840kc) 8 p. m. orchestra, artists.
WAAM Newark, N. J. (348.6m-860kc) 6-12 mid. musicale.
WABC New York, N. Y. (325.9m-920kc) 7:30-11 p. m. musicale.
WABQ Philadelphia, Pa. (260.7m-1150kc), 6:15-12:30, program.
WBBR New York, N. Y. (256.3m-1170kc) 7 p. m. world news; 7:10, studio orchestra.
WBZ Springfield, Mass. (333.1m-900kc) 6 p. m. organ; 6:30, musicale; 7, Hotel Statler ensemble; 7:30, musicale; 8 WJZ; 10:30, Melody Boys.
WCAE Pittsburgh, Pa. (516.9m-680kc) 6 p. m. dinner concert; 9, WEA; 10, WEA; 11, club revue.
WCAU Philadelphia, Pa. (277.6m-1080kc) 6:30 p. m. orchestra; 8, serenaders; 9:30, musical chefs; 10, band and songs; 10:30, Piccadilly orchestra.
WEAF New York, N. Y. (491.5m-610kc) 8, light opera company, WJAR, WGR, WFL, WRC, WCAE, WWJ, WSAI, KSD, WGY, WMAQ; 9, Chequer Club Eskimes, WEI, WJAR, WTAG, WGR, WEI, WRC, WCSI, WCAE, WWJ, WGN, WCCO, WGY, WDAF, 10, Our Government, WEI, WJAR, WTAG, WGR, WFL, WRC, WCAE, KSD, WOF, WMAQ; 10:10, Old Bill and his Workshop; 10:40, orchestra; 11:30, orchestra.
WEEL Boston, Mass. (447.5m-670kc) 7:30 p. m. musicale; 9, WEA; 10, WEA; 11:05, weather.
WFI Philadelphia, Pa. (405.2m-740kc) 8 p. m. WEA.
WGBS New York, N. Y. (348.6m-860kc) 7:30 p. m. orchestra; 8:30, program; 10:30, dance orchestra.
WGR Buffalo, N. Y. (302.8m-990kc) 7-10 p. m. program.
WHN New York, N. Y. (394.5m-760kc) 6:20-12 mid. program; 12, Cotton club orchestra.
WICC Bridgeport, Conn. (214.2m-1400kc) 8 p. m. laboratories; 9, orchestra.
WIP Philadelphia, Pa. (608.2m-590kc) 8 p. m. program; 11:05, orchestra.
WJZ New York, N. Y. (454.2m-660kc) 7, program.
WBZ WRC; 7:10, orchestra; 8, R. C. A. Radiotrons.
WBZ, KDKA, KYW; 9, stadium concert.
WBZ, KDKA, KYW, WJR, WHAM, WIAL, KSD; 10:30, orchestra.
WMAK Buffalo, N. Y. (545.1m-550kc) 6:15 p. m. dinner music; 11, musicale.
WMCA New York, N. Y. (370.2m-810kc) 6:30 p. m. orchestra; 11, orchestra; 12, Broadway nite.
WMSG New York, N. Y. (236m-1270kc) 8 p. m. ensemble; 9:30, folk songs; 10, Scotch program.
WNAC Boston, Mass. (352.7m-850kc) 6 p. m. Smiffers; 8, talk; 8:30, theater studio; 9:15, Metropolitan theater presentations.
WOR Newark, N. J. (422.3m-710kc) 6:15 p. m. ensemble; 10:55, news; 11, orchestra.
WPC Atlantic City, N. J. (272.6m-1100kc) 8:15 p. m. organ; 9:30, Breaking the Waves; 10, Movie broadcast; 11, orchestra; 11:30, dance orchestra.
WTAG Worcester, Mass. (516.9m-580kc) 8 p. m. travel talk; 9, WEA.

Eastern Standard or Central Daylight Saving Time Stations

KDKA Pittsburgh, Pa. (315.6m-950kc) 7:30, sketch; 8, WJZ.
KYW Chicago, Ill. (526m-570kc) 7-9:30 p. m. WJZ; 9:30, program; 10:32, Congress Carnival.
WAIU Columbus, Ohio (282.8m-1050kc) 7 p. m. farm talk.
WBAL Baltimore, Md. (285.5m-1050kc) 6:30 p. m., dinner orchestra; 7:30, musicale; 8, WJZ; 9, dance orchestra.
WBBM Chicago, Ill. (499.7m-600kc) 7 p. m. orchestra; 9, string trio; 10, orchestra; 11, Harding theater band.
WBCN Chicago, Ill. (288.3m-1040kc) 7 p. m. program.
WCFM Chicago, Ill. (483.6m-620kc) 6 p. m. labor hour; 7, trio; 8, classical music; 9-12, Chez Pierre orchestra.
WCSH Portland, Me. (361.2m-830kc) 8, WEA; 10, WEA.
WCX Detroit, Mich. (440.9m-680kc) 6 p. m. dinner concert; 8, musicale.
WDBO Orlando, Fla. (288.3m-1040kc) 9:30 p. m. dance program.
WEBH Chicago, Ill. (365.6m-820kc) 8 p. m. program.
WENR Chicago, Ill. (289.3m-1040kc) 8, orchestra, artists; 9:30, popular program.
WFLA Clearwater, Fla. (365.6m-820kc) 8:30 p. m. musicale.
WGHP Detroit, Mich. (319m-940kc) 8 p. m. Detroit symphony orchestra.
WGN Chicago, Ill. (305.9m-980kc) 6:10 p. m. Punch and Judy; 6:50, old fashioned Almanac; 8, WEA; 10, Sam 'n' Henry; 10:10, Music Box; 10:20, songs, Cornell and Gosling; 10:52, songs.
WGY Schenectady, N. Y. (379.5m-790kc) 6:45 p. m. musicale; 8, WEA; 9, musicale; 9:30, news; 10, WEA; 10:30, organ.
WHK Cleveland, Ohio (265.3m-1130kc) 6:30 p. m. dinner orchestra; 7:30, L. B. S. A. program; 9:45, banquets; 10, program.
WIT Chicago, Ill. (416.4m-720kc) 8-10 p. m., 11-1 a. m.
WIBO Chicago, Ill. (416.4m-720kc) 6-8 p. m., 10-11.
WJAX Jacksonville, Fla. (336.9m-890kc) 7:45 p. m. markets.
WJAZ Chicago, Ill. (263m-1140kc) 7:30 p. m. orchestra; 8:15, studio program; 9, program.
WJJD Chicago, Ill. (365.8m-820kc) 8-9 p. m. children's hour; 11-12, Victorians; 12-1, Knights of the Burning Candle.
WJR Detroit, Mich. (440.9m-680kc) 6:30 p. m. Petite symphony; 8, WJZ.
WLIB Chicago, Ill. (305.9m-980kc) 7 p. m. ensemble; 11-12:15, organ.
WLS Chicago, Ill. (344.6m-870kc) 7:45 p. m. WLS players; 8, verse and music.
WLW Cincinnati, Ohio (428.3m-780kc) 7 p. m. orchestra; 10, Crosby Cossacks; 11, Tommy and Irene; 11:15, Castle Farm.
WMAQ Chicago, Ill. (447.5m-670kc) 8, orchestra; 9, program; 12, popular program.
WOK Homewood, Ill. (252m-1190kc) 10-12:30 a. m. Del Laune and Trianon orchestra; Hawaiian serenaders; Jack and Jill; George Allen, Marie Tully.
WORD Chicago, Ill. (275m-1090kc) 8 p. m. program; 9, studio recital.
WQJ Chicago, Ill. (447.5m-870kc) 11:10 p. m. orchestra.
WRC Washington, D. C. (468.5m-640kc) 6 p. m. WJZ; 7-9, WEA; 9, program; 10-11, Meyer Davis' Le Paradis band.
WRVA Richmond, Va. (254.1m-1180kc) 8 p. m. program; 11:30, Carrie Mae Backe to Old Virginia.
WSAI Cincinnati, Ohio (361.2m-830kc) 7, 8, 9, WEA; 8:01, studio concert.
WSBC Chicago, Ill. (232.4m-1290kc) 5-7 p. m., artists; 9:30-1, program.
WSEA Norfolk, Va. (218.8m-1370kc) 7 p. m. dinner music; 8:30, studio recital; 10, orchestra.
WTAM Cleveland, Ohio (369.8m-750kc) 6 p. m. orchestra; 8, WEA; 10, studio program; 11, orchestra.
WTIC Hartford, Conn. (476.9m-630kc) 6 p. m. dinner concert; 6:30, artists' period; 8:30, band.
WVJ Detroit, Mich. (374.5m-800kc) 6 p. m. dinner concert; 7, WEA.

When to Set the Clock
Local Time
KDKA, 12:57 a. m.
KEX, 12 n., 6 p. m.
KGA, 6 p. m.
KJR, 12 n., 10 p. m.
KPO, 12 n.
KYA, 12 n.
KYY, 10:55 a. m., 11:55 p. m.
WIZ, 11:20 a. m., 7:30 p. m., 11:10.
WCAE, 9 p. m.
WCSH, 12:57 p. m.
WDAF, 5:45 p. m.
WEAF, WEEL, WJAR, WRC, WLIT, WCAE, WTAM, WWJ, WSAI, KSD, WDAF, WMAQ, 9 p. m.
WEFH, 10:30 p. m.
WGN, 5:56 p. m.
WGY, 11:55 a. m., 8 p. m.
WJZ, WBZ, KDKA, KYW, WBAL, WJR, WEEL, 7 p. m., 10.
WMAQ, 7 p. m.
WTC, 12:57 a. m.
WOO, 12:55 a. m., 10:55.
WRC, 11:55 a. m.
WTIC, 11:55 a. m.

WWNC Asheville, N. C. (296.9m-1010kc) 7 p. m. dinner concert; 8:30, talk; 9:45, artists.
Central Standard Time Stations
KFH Wichita, Kan. (245.8m-1220kc) 8 p. m. musicale.

KFNF Shenandoah, Ia. (1270.1m-1110kc) 7 p. m. mixed program.
KLDJ Independence, Mo. (238m-1260kc) 7:40 p. m. lecture; 8, Lincoln and Lee University hour; 9, Eugene Christ; tenor; male quartet.
KMA Shenandoah, Ia. (270.1m-1110kc) 9-11 p. m. Farham trio, classical program.
KMMJ Clay Center, Nebr. (379.5m-790kc) 6 p. m. ensemble; 8, musicale; 9, organ.
KOIL Council Bluffs, Ia. (277.6m-1080kc) 6:03 p. m. Mona Motor Oil orchestra; 6:30, organ recital; 7:30, program; 11, orchestra.
KFRC Houston, Tex. (296.9m-1010kc) 7:30-9:30 p. m. studio concert.
KSD St. Louis, Mo. (545.1m-550kc) 6 p. m. WEA.
KTHS Hot Springs National Park, Ark. (384.4m-780kc) 8:30-9:30 p. m. feature program; 10, program.
KVOO Bristow, Okla. (348.6m-860kc) 6-9 p. m. studio program.
KWWC Brownsville, Tex. (277.6m-1080kc) 8:30 p. m. program.
WAMD Minneapolis, Minn. (225.4m-1330kc) 6:15 a. m. organ recital; 7, musical feature.
WBAP Ft. Worth, Tex. (499.7m-600kc) 7:30-8:30 p. m. musicale; 9:30-11, musical comedy program. Royal orchestra; 11-12, John Josey, organist.
WCBZ Zion, Ill. (344.6m-870kc) 8 p. m. Cornet quartet, vocal solos, trio.
WCCO Minneapolis-St. Paul, Minn. (405.2m-740kc) 6 p. m. dinner concert; 7, WEA; 9, program; 10, baseball.
WDAF Kansas City, Mo. (370.2m-810kc) 7, WEA; 8, program; 11:45-1, Nighthawk frolic.
WFAA Dallas, Tex. (499.7m-600kc) 6:30 p. m. music; 8:30-9:30, musicale.
WHAD Milwaukee, Wis. (293.9m-1020kc) 7:15 p. m. talk; 8:30, studio program.
WHAS Louisville, Ky. (461.3m-650kc) 7:30 p. m. studio concert.

WHB Kansas City, Mo. (336.9m-890kc) 7 p. m. dinner hour organ; 8, evening concert.
WHO Des Moines, Ia. (535.4m-560kc) 6:30 p. m. dinner concert; 8:30, classical music; 9, drama.
WLAC Nashville, Tenn. (226m-1330kc) 9 p. m. program; 10-11, orchestra; 11-12, orchestra.
WOAI San Antonio, Tex. (302.8m-990kc) 8:30-9:30. U. C. A. hour.
WOC Davenport, Ia. (352.7m-850kc) 8 p. m. WEA; 8:10, musicale.
WOW Omaha, Nebr. (508.2m-590kc) 5:45 p. m. George Johnson, organist; 6:30, fretted instruments, Francis Potter; 6:50, orchestra; 9, classical; 10, Burhanu's Rhythm Kings.
WRR Dallas, Tex. (352.7m-850kc) 6-7 p. m. musical program; 8-9, quartet; 9-10, Bible class; 11-12, musical program.
WSB Atlanta, Ga. (475.9m-630kc) 8, WEA; 10-45, organ.
WSM Nashville, Tenn. (340.7m-880kc) 7:30 p. m. WJZ; 8, WEA; 9, program.
WSNB New Orleans, La. (322.4m-930kc) 8:30-10:30 p. m. Public School of the Air program; Leslie George and his Patio Royal orchestra; Jimmie McCreire and his club orchestra; features.

Mountain Standard Time Stations
CFAC Calgary, Can. (434.8m-690kc) 9:30 p. m. orchestra.

Pacific Standard Time Stations
KEX Portland, Ore. (239.9m-1250kc) 6:30-7:30 p. m. dinner music, trio; 10:30-12, dance music, Curt Kremer and his entertainers.
KFI Los Angeles, Calif. (468.5m-640kc) 7 p. m. old-timers' program; 8, drama hour; 8:30, program; 9, orange network; 10, musicale.
KFOA Seattle, Wash. (447.5m-670kc) 7:30-8, program; 9-10, chain program.
KFSD San Diego, Calif. (440.9m-680kc) 7 p. m. dance program; 9, program.

EASY TO INSTALL
No climbing on slippery, dizzy roof tops, no dangerous work to put up. Just dig into lead-in wire. Just dig a small hole in the ground. Turn SUBANTENNA in a second with instructions secured with instructions. Never gets torn down by wind or storm like an aerial does.
This graph-picture tells the greatest radio story ever told. Send coupon for the complete explanation of the difference between noisy air waves and static-free ground waves.
In the AIR the Broadcast wave is loaded with STATIC.
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"I get plenty of stations with my Subantenna, on the loud speaker, that I have never been able to reach with my outside aerial. It absolutely cuts down in interference to the minimum, cuts static out, too — not just partly out—but ALL out!"
H. S. M., North Carolina

And besides that he gets stations with his Subantenna that he never could coax out of the air with an aerial! Read what Mr. H. S. M. of North Carolina thinks of Subantenna, in his letter which we have reprinted in brackets at the top of this column. He is just one of many thousands of fans who are enjoying clearer, louder, better long distance radio reception since discarding the unsightly, static-collecting, up-in-the-air type of aerial, and using in its stead, Subantenna, the new underground antenna.

Every Night a Good Radio Night —Now an Actuality

Gone is the time when the first warm day is the signal for pushing the radio back in the corner until cold weather comes again. A thing of the past is the disappointment of having an evening's radio fun spoiled by an unexpected storm or attack of static. Install a Subantenna and your radio will be as dependable as the sunrise. On any night, in any season, in any weather you can get real "distance," enjoyable clarity and bigger usable volume than you ever could before—all you need is a Subantenna.

What Scientists Found Out
For years the heads of great laboratories have been trying to perfect a means of un-

ing static out of radio impulses received from the air. And all this time they knew not only that the same radio wave which travelled thru the air also travelled thru the ground, but that the ground is practically free from static! Knowing this, a group of inventors set out to develop a device by which the radio wave could be satisfactorily picked up from the ground. Result! Subantenna—already tested and proved by thousands of users—and offered to YOU to test on an unconditional, unqualified guarantee basis. Read herewith, a few more of the voluntary letters of praise which Subantenna users have sent in. Then get the whole explanation of Subantenna—why the ground is almost static-free—why Subantenna increases the distance-getting capabilities of practically any set—why it increases volume and improves selectivity. Get this information from your dealer, or mail the coupon from this announcement for booklet and our free trial offer. Now, read:

Says its WONDERFUL!

"After 4 years of testing aeriels I at last found the master in the Subantenna. The first night I used it was a very hot summer night. Static was very bad on my outdoor aerial. I connected my Subantenna and one could hardly believe the results. It was wonderful."—F. L. C., Mass.

Works Fine with "B" Eliminator
"We have the Subantenna installed and it is all you claim it to be. It works fine and

we enjoy it very much. We also have a B Battery Eliminator and the two together work fine. We would not want to go back on the high-in-the-air aerial again as we get so much better reception on Subantenna."—A. J. L., Maine.

SURPRISED!
"I received the Subantenna and installed it the same night and believe me I was surprised with the result for I was quite suspicious about it. I am well satisfied."—R. E. G., Canada.

FREE TRIAL

Make This Convincing Test

Install SUBANTENNA. Leave your old aerial up. Select a bad night when DX is almost impossible with the ordinary aerial. Make a comparison station for station connecting first your aerial, then SUBANTENNA. If, from stations that are just a mess of jumbled noise with the old aerial, you don't get reception that rivals local in sweetness and clarity the instant you switch to SUBANTENNA, this test won't cost you even a single penny. Obtain a SUBANTENNA from your dealer or send coupon at once for scientific explanation of SUBANTENNA and for particulars of GUARANTEE and FREE TRIAL OFFER. SEND COUPON NOW!

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KFWB Hollywood, Calif. (361.2m-830kc) 6-7 p. m. dinner concert; 7-9, news; 8-9, features; 9-10, program; 10-11, 100kc.

KFWI San Francisco, Calif. (267.7m-1120kc) 7:15 p. m. talk; 8, studio music; 10:05, orchestra.

KGA Spokane, Wash. (260.7m-1150kc) 6 p. m. time, baseball; 8, musical; 10, orchestra.

KGO Oakland, Calif. (384.4m-780kc) 6-6:55 p. m. Stanislas Bem's Little symphony; 8, drama hour; 9-10, orange network.

KGW Portland, Ore. (491.5m-610kc) 6-7 p. m. dinner concert; 7-8, lecture; 8-9, vaudeville; 9-12, National Broadcasting company; 10-12, dance band.

KHJ Los Angeles, Calif. (405.2m-740kc) 6:30-7:30 p. m. children's hour; 8-10, string quartet; 10-11, Variety Hour.

KHQ Spokane, Wash. (370.2m-810kc) 7 p. m. dinner concert; 9-9:30, bridge; 10-12, orchestra.

KJR Seattle, Wash. (348.6m-860kc) 6:30 p. m. dinner hour; 8-10, studio program.

KNX Hollywood, Calif. (336.9m-890kc) 7 p. m. records; 8, program; 9-10, features; 11, Hotel Ambassador.

KOIN Portland, Ore. (319m-940kc) 8-10:30 p. m. musical.

KOMO Seattle, Wash. (305.9m-890kc) 7:30 p. m. orchestra.

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

KPSN Pasadena, Calif. (315.6m-950kc) 8-9:15 p. m. musical program.

Thursday, silent night for: CFCA, CKCL, KFAB, KFDM, KFV, KFVE, KIX, KOA, KTAB, WDDO, WEAQ, WEMC, WFIW, WGBF, WLIT, WLWL, WOO, WOS, WOV.

FRIDAY, AUGUST 5 Headliners

Atlantic	Eastern	Central	Mountain	Pacific
WBBB (256.3m-1170kc)	Joseph Bonaccorso, violinist.	7:25	8:25	9:25
WBBR (256.3m-1170kc)	Pauline M. Cocquet, pianist.	7:30	8:30	9:30
WGY (379.5m-790kc)	Eastman theater.	7:31	8:31	9:31
WJR (440.9m-660kc)	Venetian Room ensemble.	7:31	8:31	9:31
WBEZ (333.1m-900kc)	Joseph Sprang, Hawaiian guitarist.	7:45	8:45	9:45
WBB (333.1m-900kc)	Dorothy Lindsay Robbins, soprano.	7:45	8:45	9:45
WBC (333.1m-900kc)	Joseph Wass, baritone.	7:45	8:45	9:45
WCF (483.6m-620kc)	Red peppers.	7:45	8:45	9:45
WOO (508.2m-590kc)	WOO Modern dance orchestra.	7:45	8:45	9:45
WABC (325.9m-920kc)	Op'ry House tonight.	8:15	9:15	10:15
WAIQ (261m-1150kc)	Elks Booster night.	8:30	9:30	10:30
WFIH (365.6m-820kc)	Blanche Floyd, soprano.	8:30	9:30	10:30
WNAQ (447.5m-670kc)	Jeanette Martin, soprano.	8:30	9:30	10:30
WTIC (475.9m-630kc)	Jessie Worth Ebb, soprano; Louise Turkington, contralto.	8:30	9:30	10:30
WBBM (398.4m-770kc)	Know Your World-Italy.	8:30	9:30	10:30
WBS (352.7m-850kc)	Mrs. A. H. Iherkamp, soprano.	8:30	9:30	10:30
KOB (394.5m-760kc)	vocal selections, Mrs. Ina P. Anderson, Walter Davis.	8:30	9:30	10:30
KTHS (384.4m-780kc)	Pete Phillips, tenor.	8:30	9:30	10:30
WFAA (469.7m-600kc)	minstrel show.	8:30	9:30	10:30
WRYA (254.1m-1180kc)	Edgewood.	8:30	9:30	10:30
WCCO (405.2m-740kc)	Thelma Halverson, soprano.	8:30	9:30	10:30
KFON (233m-1290kc)	musical, Genorio O. George.	8:30	9:30	10:30
WIAF (499.7m-600kc)	Bob Sweeney, baritone.	8:30	9:30	10:30
KGO (384.4m-780kc)	Wherry Lewis quintet.	8:30	9:30	10:30
KSX (336.9m-890kc)	Optimistic Do-Nuts.	8:30	9:30	10:30
WTAM (392.8m-750kc)	Sammy Watkins and his orchestra.	8:30	9:30	10:30
KLN (508m-590kc)	Athens Athletic club orchestra.	8:30	9:30	10:30
KFI (468.5m-640kc)	Dresden Girls trio.	8:30	9:30	10:30

Regular Friday Features

Atlantic or Eastern Daylight Saving Time Stations

WAAM Newark, N. J. (348.6m-860kc) 6 p. m. orchestra; 11, orchestra.

WABC New York, N. Y. (325.9m-920kc) 7:30 p. m. musical.

WABQ Philadelphia, Pa. (260.7m-1150kc) 6:15 p. m. show; 9:15, artists; 10:30, orchestra; 11:30, entertainers.

WBBR New York, N. Y. (256.3m-1170kc) 7, musical.

WBZ Springfield, Mass. (333.1m-900kc) 6:15 p. m. orchestra; 7, baseball; 7:30, time; 8:30, WJZ; 9, WJZ; 10, orchestra; 10:30, Hotel Statler orchestra.

WCAE Pittsburgh, Pa. (516.9m-590kc) 6 p. m. dinner concert; 8, WEA; 10, program; 11, orchestra; 12, night club.

WCAU Philadelphia, Pa. (277.6m-1080kc) 7 p. m. orchestra; 10, Architects; 11, orchestra.

WEAF New York, N. Y. (491.5m-610kc) 8, Cities Service concert orchestra, WEEL, WTIC, WGR, WLIT, WRC, WCAE, WTAM, WWJ, WSAI, WLIR, KSD, WCCO, WDAF, WGY, KVOO, WEA, 9, Howard time, WEEL, WIAF, WLIT, WRC, WCAE, WTAM, WWJ, WSAI, KSD, WOC, WGY, WMAQ, WDAF, 9:30, La France orchestra, WGR, WLIT, WCAE, WTAM, WWJ, KSD, WOL, WDAF, WMAQ; 10, Moon Magic, WRE, WWJ, KSD; 10:30, orchestra, WGY, KSI, WRC; 11:30, orchestra, WRC.

WEEB New York, N. Y. 7 p. m. music.

WEEL Boston, Mass. (447.5m-670kc) 7:30 p. m. Merry Milkmen; 8, WEA; 9, Neapolitan Dutch Girls; 9:50, musical; 10, cruising the air; 10:10, news; 10:15, organ.

WGBS New York, N. Y. (348.6m-860kc) 6:30-7 p. m. orchestra.

WGR Buffalo, N. Y. (302.8m-990kc) 7-12 mid, concert.

WHN New York, N. Y. (394.5m-780kc) 6:30 p. m. orchestra; 10:30, vaudeville; 12, Silver Slipper orchestra.

WIC Bridgeport, Conn. (242.2m-1400kc) 9, music hour; 10, orchestra.

WIP Philadelphia, Pa. (508.2m-590kc) 7 p. m. bedtime story.

WJZ New York, N. Y. (454.2m-660kc) 7 p. m. orchestra; 8, chorus, KTKA, KYW, WJR; 8:30, Royal hero, WBZ-WBZA, KTKA, KYW, WBAL, WJR; 9, Philco hour, WBZ-WBZA, KTKA, KYW; 10, Home, WBZ-WBZA, KTKA, KYW, WJR; 10, Bonnie Ladies; 10:30, orchestra.

WLIT Philadelphia, Pa. (405.2m-740kc) 8 p. m. WEA; 9:30, WEA; 11, orchestra.

WLWL New York, N. Y. (370.2m-810kc) 5-11 p. m. program.

WMAK Buffalo, N. Y. (545.1m-550kc) 6:30 p. m. dinner music; 7-15, news; 9:30, musical; 10:30, studio program.

WNCA New York, N. Y. (370.2m-810kc) 6:30 p. m. orchestra; 10, music; 11, Parody club.

WNMG New York, N. Y. (236.5m-1270kc) 6:30 p. m. tenor; 8:15, musical; 10, orchestra; 10:30, program.

WNAC Boston, Mass. (352.7m-850kc) 6:30 p. m. dinner music; 7, dance music; 9, musical; 10:05, dance program.

WOO Philadelphia, Pa. (508.2m-590kc) 7:30 p. m. WOO (rio); 8:30, medical talk; 9, modern program.

WOR Newark, N. J. (422.3m-710kc) 6:15 p. m. songs; 10:30, artists; 11, orchestra.

WPAP New York, N. Y. (394.5m-780kc) 8 p. m. Radio Hour; 9:30, orchestra; 11, dance music.

WTAC Worcester, Mass. (516.9m-590kc) 8:30 p. m. musical; 9, WEA; 9:30, musical; 10:30, news.

Eastern Standard or Central Daylight Saving Time Stations

KDKA Pittsburgh, Pa. (315.6m-950kc) 8, WJZ; 8:30, WJZ; 10:55, weather; 11:30, Pittsburgh Post dance orchestra.

KYW Chicago, Ill. (526m-570kc) 7-9 p. m. WJZ; 9-10:30, concert; 10:30-11:55, musical.

WAIU Columbus, Ohio (282.8m-1050kc) 7:50 p. m. talk; 8, artists' concert; 9, musical; 10, song shop.

WBAL Baltimore, Md. (285.5m-1050kc) 7:30-8 p. m. WJZ; 9, ensemble; 9, municipal band.

WBBM Chicago, Ill. (389.4m-770kc) 7-11 p. m. musical; 12, organ.

WBCN Chicago, Ill. (283.3m-1040kc) 7 p. m. popular program.

WCFL Chicago, Ill. (483.6m-620kc) 6 p. m. labor hour; 7, trio; 10:15-12 mid, stage show.

WCSH Portland, Me. (361.2m-830kc) 8 p. m. Chipman band; 8, Trio; 10:30, dance music.

WCX Detroit, Mich. (447.5m-670kc) 8:30 p. m. studio program; 9, musical.

WDBO Orlando, Fla. (288.3m-1040kc) 7:55 p. m. classroom; 9, studio program.

WEBB Chicago, Ill. (365.6m-820kc) 7-8 p. m. artists; 9-11, orchestra.

WEAR Chicago, Ill. (288.3m-1040kc) 6 p. m. organ; 8, classical program; 9:30, studio program.

WFIH Clearwater, Fla. (365.6m-820kc) 8:30 p. m. organ and artists' recital; 9:45, program, Central America; 10:30, time.

WGHP Detroit, Mich. (319m-940kc) 7 p. m. four-informations; 8-9, Detroit symphony.

WGN Chicago, Ill. (305.9m-890kc) 6-8 p. m. Old Fashioned Almanac; 8:30, Paul Ash; 9:30, Phantom violin; 10, Sam 'n' Henry; 10:10, Music Box; 10:20, songs, Tommy Coates; 10:40, Pepper Patty.

WGY Schenectady, N. Y. (379.5m-790kc) 6:30 p. m. musical; 7, musical; 8, play; 9:30, WEA.

WHK Cleveland, Ohio (265.3m-1130kc) 6:30 p. m. program; 10, program; 11:01, dance music.

WHT Chicago, Ill. (416.4m-720kc) 8-10, 11-12, WIBO Chicago, Ill. (416.4m-720kc) 6-8 p. m., 10-11, WJAX Jacksonville, Fla. (336.9m-890kc) 7 p. m. dinner dance music; 8, popular program; 10, Little symphony; 11, dance music.

WJAZ Chicago, Ill. (265.3m-1130kc) 7:30 p. m. orchestra; 8:15, classical program; 9, diversified program.

WJJD Chicago, Ill. (365.6m-820kc) 8-9 p. m. musical hour; 11-1 a. m., Victorians.

WJR Detroit, Mich. (440.9m-680kc) 7 p. m. Breeze Blowers; 11:30, Jesters.

WLLB Chicago, Ill. (305.9m-890kc) 7 p. m. WEA.

WLS Chicago, Ill. (344.6m-870kc) 7:30 p. m. May and June; 7:30, orchestra; 8, Silverstone hr; 9:15, WLS players; 10-12, Showboat.

WMAQ Chicago, Ill. (447.5m-670kc) 6 p. m. cbimes; 6:15, Wide-Awake club; 8, WEA; 9, musical; 12, popular program.

WOK Homewood, Ill. (252m-1190kc) 10-12:30 a. m. Del Lange and Trianon orchestra; Hawaiian serenaders; Jack and Jill; George Allen, Marie Tutty.

WQJ Chicago, Ill. (447.5m-670kc) 10 p. m. orchestra.

WRC Washington, D. C. (468.5m-640kc) 6:30 p. m. orchestra; 7, WEA; 8, WEA; 9, Lord Calvert ensemble; 9:30, WEA; 10:30, WEA.

WRYA Richmond, Va. (254.1m-1180kc) 7, program.

WSAI Cincinnati, Ohio (361.2m-830kc) 7 p. m. WEA; 8, time.

WSBC Chicago, Ill. (232.4m-1290kc) 6-8 p. m. Hurb Swift and his Serenaders; dinner concert; 9-1, popular program.

WSEA Norfolk, Va. (218.8m-1370kc) 7 p. m. dinner concert; 8:30, studio recital; 10, orchestra; 12, night club.

WTAM Cleveland, Ohio (399.5m-750kc) 6 p. m. orchestra; 7, WEA; 8, program; 11, orchestra.

WTIC Hartford, Conn. (475.9m-630kc) 6 p. m. talk; 6:30, organ; 7, WEA; 9, orchestra.

WWJ Detroit, Mich. (374.8m-890kc) 7 p. m. WEA; 8, musical; 8:30-10, WEA.

Central Standard Time Stations

KFAB Lincoln, Nebr. (309.1m-970kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:30-10, program; 11-1, 100kc.

KFH Wichita, Kan. (245.8m-1220kc) 7:50 p. m. old time fiddlers; 8, serenaders.

KENE Shenandoah, Ia. (270.1m-1110kc) 7:30 p. m. Sunday school lesson.

KEVE St. Louis, Mo. (234.2m-1280kc) 7, orchestra; 8:30, Builders; 9, Marie Club.

KMA Shenandoah, Ia. (270.1m-1110kc) 9-11 p. m. organ.

KMMJ Clay Center, Nebr. (379.5m-780kc) 8 p. m. evening program.

KOIL Council Bluffs, Ia. (277.6m-1080kc) 6:03 p. m. Boy Scouts; 6:30, music period; 8:30, orchestra; 11:30, organ.

KSD St. Louis, Mo. (545.1m-550kc) 6 p. m. WEA; 8:30, dance music; 11, orchestra.

KTHS Hot Springs National Park, Ark. (384.4m-780kc) 8:30-9:30 p. m. novelties; 9:30-10:15, orchestra.

KYOO Bristolow, Okla. (343.6m-860kc) 6 p. m. dinner hour; 6, Princess Pakauli.

WAMD Minneapolis, Minn. (225.4m-1330kc) 6:15 p. m. organ recital; 10:45, 100kc.

WBAP Ft. Worth, Tex. (499.7m-600kc) 7:30-8:30, musical; 9:30-12, concert.

WCCO Minneapolis-St. Paul, Minn. (405.2m-740kc) 9 p. m. WEA; 7, dinner concert; 8:30-10, musical program; 10, Emmet Long's dance orchestra.

WCOA Pensacola, Fla. (249.9m-1290kc) 8 p. m. program.

WDAF Kansas City, Mo. (370.2m-810kc) 7, Melody Way club; 7:30, WEA; 8, dance program; 9, popular program; 11:45-1 a. m. Nighthawk 100kc.

WDFW Chattanooga, Tenn. (267.7m-1220kc) 7 p. m. dinner concert; 8:30-11, musical.

WFAA Dallas, Tex. (499.7m-600kc) 6:30-7:30 p. m. program; 8:30, program.

WFIW Hopkinsville, Ky. (280.2m-1070kc) 8-1 a. m. program.

WGBF Evansville, Ind. (236.1m-1270kc) 8 p. m. program.

WIID Milwaukee, Wis. (293.9m-1020kc) 6:15 p. m. dance music; 8, classical program.

WHAS Louisville, Ky. (461.3m-650kc) 7:30-9 p. m. studio concert.

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

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

WQAI San Antonio, Tex. (302.8m-990kc) 8:30 p. m. program.

WOC Davenport, Ia. (352.7m-850kc) 6 p. m. WEA; 7, musical; 7:30, WEA; 8, program.

WOW Omaha, Neb. (508.2m-590kc) 6 p. m. Hugo Heyn, marimba; Emil Hultman, pianist; 9, classical; 10, Ortho-sonic hour.

WRR Dallas, Tex. (352.7m-850kc) 6-7 p. m. musical program; 8-9 band concert.

WSB Atlanta, Ga. (475.9m-630kc) 8 p. m. program; 10:45, concert.

Mountain Standard Time Stations

KOA Denver, Colo. (325.9m-920kc) 7:30 p. m. S. S. lesson; 8, Denver Municipal band.

KSB State College, N. M. (394.4m-760kc) 7:30 p. m. orchestra.

Pacific Standard Time Stations

KEX Portland, Ore. (239.9m-1250kc) 6:30-7:30 p. m. dinner music; 8-9, classical hour.

KFI Los Angeles, Calif. (468.5m-640kc) 7 p. m. organ; 8, program; 9, orange network; 10, musical.

KFOA Seattle, Wash. (447.5m-670kc) 9-10, chain program; 10:30-12, KGW.

KFOW Long Beach, Calif. (241.8m-1240kc) 7:30 p. m. musical; 8, Long Beach Municipal band; 9, orchestra; 10, Elk's 100kc.

KFSD San Diego, Calif. (440.9m-680kc) 7 p. m. musical.

KFWB Hollywood, Calif. (361.2m-830kc) 7 p. m. orchestra; 7:50, News; 8:11, program.

KFVI San Francisco, Calif. (267.7m-1120kc) 7:15 p. m. talk; 8, music; 9, orchestra.

KGA Spokane, Wash. (260.7m-1150kc) 8-9 p. m. orchestra.

KGO Oakland, Calif. (384.4m-780kc) 6-6:55 p. m. Stanislas Bem's Little symphony; 8-9, feature; 9-10, National Broadcasting company orchestra; 10, orchestra.

KGW Portland, Ore. (491.5m-610kc) 6-7 p. m. dinner concert; 8-9, concert; 9, National Broadcasting company; 10, Jubilee players; 10:30, Hoot Owls, KMO, KFBI, KIIQ.

KHJ Los Angeles, Calif. (405.2m-740kc) 6:30-7:30, children's hour; 8-10, popular program; 9, talk.

KHQ Spokane, Wash. (370.2m-810kc) 8-9 p. m. KGW; 9, program; 10-10:30, dance music; 10:30-12, KJW.

KJR Seattle, Wash. (348.6m-860kc) 6:30 p. m. dinner hour; 8-10, program.

KLX Oakland, Calif. (508.2m-590kc) 8 p. m. special program; 9:30-10:30, Athens Athletic club orchestra.

KNX Hollywood, Calif. (336.9m-890kc) 7 p. m. feature; 8, 9, 10, features; 11, Hotel Ambassador.

KOIN Portland, Ore. (319m-940kc) 8-9 p. m. staff orchestra; 9, orchestra; 10, band; Weber, soprano.

KOMO Seattle, Wash. (305.9m-890kc) 8, Totem concert orchestra; 10, Jackie Souder's Olympic hotel orchestra.

KPO San Francisco, Calif. (422.3m-710kc) 6:30 p. m. State Restaurant orchestra; 8-9, orchestra; 9, orange chain; 10-11, orchestra.

KTAB Oakland, Calif. (250.2m-1070kc) 8-9 p. m. orchestra; 9-10, orchestra.

KYA San Francisco, Calif. (309.1m-970kc) 8 p. m.

Friday, silent night for: CFCA, CKAC, CKCL, CKNC, KLDs, KPCC, KPSN, WCBW, WFL, WIP, WLAC, WLIT, WLW, WPG, WSM, WSMB.

SATURDAY, AUGUST 6 Headliners

Atlantic	Eastern	Central	Mountain	Pacific
WABC (508.2m-590kc)	Lola Harley Weber, soprano.	8:15	9:15	10:15
WCCO (405.2m-740kc)	Lloyd Sunderman, baritone.	8:30	9:30	10:30
WIP (508.2m-590kc)	Monologues, Walter R. Gessford.	8:50	9:50	10:50
WIP (508.2m-590kc)	Mandelolin ensemble.	8:50	9:50	10:50
CFCA (356.9m-890kc)	CFCA's Summer ensemble.	8:50	9:50	10:50
KFNE (270.1m-1110kc)	Super-Six Radio Boys.	9:10	10:10	11:10
WAHQ (261m-1150kc)	Edmund Zygmant, violinist.	9:10	10:10	11:10
WHAM (398.4m-770kc)	Sunset male quartet.	9:10	10:10	11:10
WCF (483.6m-620kc)	Ann Bonham.	9:10	10:10	11:10
WABC (325.9m-920kc)	Russian Reveries.	9:30	10:30	11:30
WAHQ (261m-1150kc)	Harmony Four.	9:30	10:30	11:30
WIZ (333.1m-900kc)	Liberly Drum corps.	9:30	10:30	11:30
WIAS (461.3m-650kc)	Arthur Findling, baritone.	9:30	10:30	11:30
WIAQ (447.5m-670kc)	popular song cycle.	9:30	10:30	11:30
WTAM (392.8m-750kc)	Pocahontas Indians.	9:30	10:30	11:30
WIZ (333.1m-900kc)	Aurelia Cormier, soprano.	9:30	10:30	11:30
WHAP (499.7m-600kc)	King Sisters.	9:30	10:30	11:30
WIP (508.2m-590kc)	Hawaiian Knights.	9:30	10:30	11:30
WOC (352.7m-850kc)	John Gerwe, tenor.	9:30	10:30	11:30
WTAM (392.8m-750kc)	Ev Jones and His Merry-makers.	9:30	10:30	11:30
KTIS (384.4m-780kc)	Allred Schipps, cellist.	9:30	10:30	11:30
WIOD (245.8m-1220kc)	Ray-o-vac twins.	9:30	10:30	11:30
KON (233m-1230kc)	Minstrels.	9:30	10:30	11:30
KFI (468.5m-640kc)	Felipe Delgado, Spanish lyric baritone.	9:30	10:30	11:30
KNX (336.9m-890kc)	Mr. and Mrs. Radio Skit.	9:30	10:30	11:30
WJR (440.9m-660kc)	Merry Old Chief.	9:30	10:30	11:30
WIAQ (461.3m-650kc)	Dan Dugan's orchestra.	9:30	10:30	11:30
KGO (384.4m-780kc)	American theater.	9:30	10:30	11:30
WFAA (499.7m-600kc)	features, Palace theater.	9:30	10:30	11:30

Regular Saturday Features

Atlantic or Eastern Daylight Saving Time Stations

WAAM Newark, N. J. (348.6m-860kc) 6-11 p. m. musical.

WABC New York, N. Y. (325.9m-920kc) 7:30-11 p. m. Musical.

WABQ Philadelphia, Pa. (260.7m-1150kc) 6:30 p. m. orchestra; 8, serenaders; 11:30, entertainers.

WBZ Springfield, Mass. (333.1m-900kc) 6 p. m. orchestra; 6:45, pianist; 8, musical; 10:30, orchestra.

WCAE Pittsburgh, Pa. (516.9m-590kc) 6 p. m. dinner concert; 8:30, WEA; 10:15, orchestra.

WCAU Philadelphia, Pa. (277.6m-1080kc) 6:30 p. m. orchestra; 8:45, architects; 10, orchestra; 10:30, Pleadilly orchestra.

WEAF New York, N. Y. (491.5m-610kc) 8:30 p. m. Goldenland concert. WEEL, WYAR, WRC, WEA, WTAM, KSD; 9, time, WEEF, WYAR, WRC, WCAE, WTAM, WWJ, WSAI, KSD, WGY.

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References: First National Bank or Bradstreets.

WMAQ 9, Goldman band continued; 10:15, orchestra; WRC, WGY, WSAI; 11, orchestra. WEEL Boston, Mass. (447.5m-670kc) 8:30 p. m. W.E.A.F.; 10, m. cruising the air. WFI Philadelphia, Pa. (405.2m-740kc) 8 p. m. topics; 8:15, musicale; 10, musicale; 10:30, orchestra. WGBS New York, N. Y. (348.8m-600kc) 7:30-12 mid. program. WIC Bridgeport, Conn. (214.2m-1400kc) 8:30 p. m. Ritz ballroom. WIP Philadelphia, Pa. (508.2m-590kc) 7 p. m. bedtime story; 8, topical; 9, concert; 10, orchestra; 11:05, organ. WJZ New York, N. Y. (454.2m-660kc) 7 p. m. orchestra; 8, chorus; 8:30, dance music; 10, Keystone duo; 10:30, orchestra. WMAK Buffalo, N. Y. (545.1m-550kc) 7:30 p. m. musicale; 8:30, program; 9:30, musicale; 10:30, studio program; 11, Silver Slipper club. WMCA New York, N. Y. (370.2m-810kc) 6:30 p. m. orchestra; 8, musical extravaganza; 9, boxing bouts; 11, entertainers. WMSG New York, N. Y. (236m-1270kc) 6 p. m. program; 10, orchestra. WNAC Boston, Mass. (352.7m-850kc) 6:30 p. m. dinner dance; 7:45, lady of the ivories; 8, boxing bouts; 10:05, dance music. WOR New York, N. Y. (422.3m-710kc) 6:15 p. m. ensemble; 9:30, orchestra; 10:55, news; 11, orchestra. WPC Atlantic City, N. J. (672.6m-1100kc) 7:05 p. m. dinner music; 10, radio program; 11:30, dance orchestra; 12, orchestra. WTAC Worcester, Mass. (516.9m-580kc) 8 p. m. orchestra; 10, orchestra.

Eastern Standard or Central Daylight Saving Time Stations

KDKA Pittsburgh, Pa. (315.6m-950kc) 7:30 p. m. concert. KYW Chicago, Ill. (526m-570kc) 7-8 p. m. melody hour; 9:10-30, classical concert; 10:30-11:55, carnival. WBBM Chicago, Ill. (398.4m-770kc) 7 p. m. orchestra; 10, studio program; 12, jazz program. WBCN Chicago, Ill. (288.3m-1040kc) 7 p. m. classical program. WCFL Chicago, Ill. (483.6m-620kc) 6 p. m. labor hour; 8-10, program; 12, orchestra. WDBO Orlando, Fla. (285.3m-1040kc) 9 p. m. Ragdad serenaders. WEBH Chicago, Ill. (365.6m-820kc) 7-8 p. m. hotel orchestra; 10-12, orchestra. WENR Chicago, Ill. (288m-1040kc) 6 p. m. organ; 8, classical program; 9:30, popular program. WGN Chicago, Ill. (305.9m-980kc) 6:10 p. m. Punch and Judy; 6:35, ensemble; 6:50, Old Fashioned simonack; 8:15, W.E.A.F.; 8:30, Salome; 9:30, Over the Hills and Far Away; 10, Sam 'n' Henry; 10:10, music box; 10:40, musicale. WCY Schenectady, N. Y. (379.5m-790kc) 6:30 p. m. musicale; 7:30, WHAM; 8:30, musicale; 9:15, W.E.A.F.; 10, dance music. WHK Cleveland, Ohio (265.3m-1130kc) 8 p. m. program; 11, Rubenack man. WHT Chicago, Ill. (416.4m-720kc) 8 p. m. program. WIBO Chicago, Ill. (416.4m-720kc) 6-8 p. m., 10-11. WJAX Jacksonville, Fla. (336.9m-890kc) 7 p. m. dinner music; 8, Jacksonville Little Symphony; 9, popular program; 11, dance music. WJAZ Chicago, Ill. (263m-1400kc) 7:30 p. m. orchestra; 8:15, studio program; 9, program. WJJD Chicago, Ill. (365.6m-820kc) 8-9 p. m. director's hour; 9:10, Harmony hour; 12, Palmer House program. WJR Detroit, Mich. (440.9m-680kc) 7 p. m. good will ensemble; 8:30, Pontiac Tribe. WLB (305.9m-890kc) 7-8 p. m. dinner concert; 11-12:30, artists. WLS Chicago, Ill. (344.6m-870kc) 7:10-1, barn dance. WLW Cincinnati, Ohio (428.3m-700kc) 7 p. m. organ; 9, Lattie Farm; 9:40, Castle Farm. WMAQ Chicago, Ill. (447.5m-670kc) 7 p. m. dance music; 8, phonograph; 8:30, song cycle; 1, popular program. WOK Homewood, Ill. (252m-1190kc) 9:12-20 a. m. Del Lange and Trianon orchestra; Hawaiian serenaders; Jack and Jill; George Allen, Marie Tully. WORD Chicago, Ill. (375m-1090kc) 7 p. m. program; 9, studio program. WQJ Chicago, Ill. (447.5m-670kc) 9:30 p. m. popular program.

WRC Washington, D. C. (468.5m-640kc) 7 p. m. little talk; 7:30, W.E.A.F.; 8-10, W.E.A.F. WSAI Cincinnati, Ohio (361.2m-830kc) 7 p. m. music; 7:30, W.E.A.F.; 9:15, orchestra. WSCB Chicago, Ill. (232.4m-1290kc) 5-7 p. m. Plugh Swift and his Serenaders; dinner concert; 9:30-10, popular program. WSEA Norfolk, Va. (218.8m-1370kc) 7 p. m. dinner concert; 8:30, recital; 10, dance music. WTAM Cleveland, Ohio (399.8m-750kc) 6 p. m. orchestra; 7, studio concert; 7:30, W.E.A.F.; 8:30, Indianas Indians; 9, Ev Jones and his Merry-makers. WVVN Asheville, N. C. (296.9m-1010kc) 7 p. m. dinner concert.

Central Standard Time Stations

KFAB Lincoln, Neb. (309.1m-970kc) 5:30-6:30 p. m. Hotel Lincoln orchestra; 8:30-9, Rulik Little symphony; 9-10, Chamber of Commerce program. KFJH Wichita, Kan. (245.8m-1220kc) 7:30 p. m. artists' program. KFNF Shenandoah, Ia. (270.1m-1110kc) 7 p. m. Radio Boys; 11, frolic. KFVE St. Louis, Mo. (234.2m-1290kc) 7 p. m. orchestra; 8, studio program; 10, dance music. KMA Shenandoah, Ia. (270.1m-1110kc) 9-11 p. m. songs, music. KNMJ Clay Center, Neb. (228.9m-1310kc) 8 p. m. program. KPRC Houston, Tex. (298.9m-1010kc) 7:30 p. m. studios concert. KTHS Hot Springs National Park, Ark. (384.4m-760kc) 5 p. m. organ; 8:30, musicale; 9, dance concert. KVOO Bristol, Okla. (348.6m-660kc) 6 p. m. Sunday school lesson; 7, classical music; 8, evening musicale. WAMD Minneapolis, Minn. (225.4m-1330kc) 6:15 p. m. club; 7, music. WBAF El Worth, Tex. (492.7m-600kc) 7:30-8 p. m. Interdenominational Sunday school lesson; 9:30, Clyde and Florence Messengale, popular numbers; 10:30, theater program. WCCO Minneapolis-St. Paul, Minn. (405.2m-740kc) 6:15 p. m. dinner concert, Wesley Barlow's Nicollet hotel orchestra; 8, music; 10:05, dance program. WDAF Kansas City, Mo. (370.2m-810kc) 7, Melody Way club; 8, program; 9-10, popular program; 11:45-1 a. m. Nighthawk frolic. WFAA Dallas, Tex. (499.7m-800kc) 6:30-7:30 p. m. program; 8:30-9:30, players; 11-11:30, orchestra; 11:30-12:30 a. m. Palace theater feature; organ recital. WFIW Hopkinsville, Ky. (280.2m-1070kc) 8-11 p. m. program. WHAD Milwaukee, Wis. (293.9m-1020kc) 8 p. m. organ; 8:30-10, serenaders. WHAS Louisville, Ky. (461.3m-650kc) 7:30 p. m. program. WHB Kansas City, Mo. (336.9m-890kc) 7-8 p. m. organ; 8-10, concert. WLAC Nashville, Tenn. (226m-1330kc) 7 p. m. children's period; 8-9, program. WOC Davenport, Ia. (352.7m-850kc) 7-9 p. m. musicale. WOV Omaha, Neb. (508.2m-590kc) 7 p. m. program; 7:30, program; 8, literary period; 9, program; 10, orchestra. WRR Dallas, Tex. (352.7m-850kc) 6-7 p. m. musical program; 8-9, classical program. WSB Atlanta, Ga. (475.9m-630kc) 8 p. m. program; 10:45, concert. WSM Nashville, Tenn. (340.7m-880kc) 7:15 p. m. Andrew Jackson hotel orchestra; 8-11:30, barn dance program. WSWB New Orleans, La. (322.4m-930kc) 8:30-10:30 p. m. Public School of the Air program; organ solos.

Mountain Time Stations

KOA Denver, Colo. (325.9m-920kc) 8 p. m. Barcelonians.

Pacific Standard Time Stations

KEX Portland, Ore. (239.9m-1250kc) 6:30-7 p. m. dinner music; 10:30-12, dance music, Curt Kremer and his entertainers. KF Los Angeles, Calif. (468.5m-640kc) 7:30 p. m. program; 8-9, orange network; 9-10, classical program; 11-12 a. m. KFI midnight frolic. KFOA Seattle, Wash. (447.5m-670kc) 8-9 p. m. National Broadcasting company.

KFON Long Beach, Calif. (233m-1280kc) 7 p. m. minstrel; 8, Long Beach band; 9, orchestra; 10, organ; 11, orchestra. KFSD San Diego, Calif. (440.9m-680kc) 7 p. m. dinner program; 8, Franco-Amer. hour. KFVB Hollywood, Calif. (252m-1190kc) 6-7 p. m. Pontiac dinner hour; 8-9, program, Mona Motor Oil Company; 9-10, musicale; 10-11, program. KFVJ San Francisco, Calif. (267m-1120kc) 7 p. m. artists; 8, studio program; 9, orchestra; 12, hour of mirth. KGO Oakland, Calif. (384.4m-780kc) 8 p. m. National Broadcasting company; 9, concert; 10, band. KGW Portland, Ore. (491.5m-610kc) 6-7 p. m. dinner music; 8-9, National Broadcasting company; 10-12, dance music. KLIJ Los Angeles, Calif. (405.2m-740kc) 6 p. m. children's hour; 8-10, varied program. KHQ Spokane, Wash. (370.2m-810kc) 6 p. m. dinner concert; 7, KFOA program; 10-12, orchestra. KJR Seattle, Wash. (348.6m-860kc) 8-10 p. m. studio program. KNX Hollywood, Calif. (336.9m-890kc) 7:30 p. m. features; 10, Hotel Ambassador; 11, Saturday night frolic; 12, midnight express. KOIN Portland, Ore. (319m-940kc) 6-7 p. m. dinner concert. KOMO Seattle, Wash. (305.9m-980kc) 7:30 p. m. Totem concert orchestra; 10, popular program. KPO San Francisco, Calif. (422.3m-710kc) 6:30 p. m. States Restaurant orchestra; 8, National Broadcasting company; 9, dance. KPSN Pasadena, Calif. (315.6m-950kc) 8-9 p. m. Star-News instrumental ensemble. KYA San Francisco, Calif. (309.1m-970kc) 8 p. m. dance orchestra.

Saturday, silent night for: CFCA, KFDM, KFDY, KGA, KIX, KOH, KOIL, WBAL, WGBD, WCVB, WCHS, WCK, WFHH, WGF, WGPC, WHP, WHAD, WIEB, WHN, WHO, WICC, WJAR, WLWL, WOAI, WOS, WRVA, WTIC, WWJ.

SUNDAY, AUGUST 7

Table with columns: Atlantic, Eastern, Central, Mountain, Pacific. Rows list stations and their programs for Sunday, August 7.

Regular Sunday Features Atlantic or Eastern Daylight Saving Time Stations

CFCA Toronto, Can. (357m-840kc) 11 a. m. service; W. church service. WAAM Newark, N. J. (348.5m-600kc) 10:30 a. m. church service; 8-10 p. m. musicale. WABC New York, N. Y. (325.9m-820kc) 10:50 a. m. service. WABO Philadelphia, Pa. (260.7m-1150kc) 8 p. m. Melodians; 9:15, orchestra; 11:30, entertainers. WBBR New York, N. Y. (256.3m-1170kc) 10 a. m. morning service; 2 p. m. musicale; 7, musicale. WBZ Springfield, Mass. (333.1m-900kc) 1 p. m. orchestra; 2, WJZ; 7, Hotel Statler ensemble; 7:30, concert; 8:30, WJZ. WCAE Pittsburgh, Pa. (516.9m-550kc) 9:30 a. m. church; 5:30, W.E.A.F.; 6:30, dinner concert; 7:18, W.E.A.F.; 9:15, W.E.A.F.; 9:45, W.E.A.F. WCAU Philadelphia, Pa. (277.6m-1090kc) 6:45 p. m. orchestra; 9, Harpists; 10, artists; 10:30, Grab-Bag luncheon. W.E.A.F. New York, N. Y. (491.5m-610kc) 7:20-9:15, Capital theater. WEEI, WJAR, WTAC, WRC, WCAE, WYJ, KSD, WHAS, WSD, WSM, WWC; WYJ; 9:15, Howard current time. WEEI, WJAR, WFL, WCAE, WWJ, WSAI, KSD, WOC, WGY; 9:15, Atwater kept hour, WEEI, WCR, WCAE, WWJ, WGN, KSD, WOC, WCO, WGY, WSAI; 10, cathedral echoes, WRC. WEEI Boston, Mass. (447.5m-670kc) 7:20 p. m. W.E.A.F.; 9:15, W.E.A.F.; 10, cruising the air; 10:05, Keith's Radio revue. WFJ Philadelphia, Pa. (405.2m-740kc) 4:30 p. m. chapel; 7:30, service. WGBS New York, N. Y. (348.6m-860kc) 8 p. m. music-drama. WGR Buffalo, N. Y. (302.8m-990kc) 10:45 a. m. service; 9:15 p. m. W.E.A.F. WHN New York, N. Y. (394.5m-780kc) 10 p. m. program; 12, Frivolity club. WIP Philadelphia, Pa. (508.2m-590kc) 10:45 a. m. service; 9:30 p. m., WGBS, or 7:15 p. m. service. WJZ New York, N. Y. (454.2m-660kc) 9 a. m. children's hour; 11, service; 1 p. m. orchestra, WBZ, WBZA, WRC; 2, Ruixy and his gang, WBZ-WBZA, KDKA, KYW, WRC, WOC, WJR; 5:30, vesper; 6:50, baseball; 7, time, organ, WBAI; 7:30, program; 8, orchestra; 8:30, Philharmonic concert, WBZ, KDKA, KYW, WHAM; 10:30, Time, WBZ, KDKA, KYW, WHAM; 10:30, violinist. WLIT Philadelphia, Pa. (405.2m-740kc) 1 a. m. service; 2 p. m. orchestra. WMAC Buffalo, N. Y. (545.1m-550kc) 7:50 p. m. service. WMCA New York, N. Y. (370.2m-810kc) 7-12 mid. program; 12, orchestra. WNAC Boston, Mass. (352.7m-850kc) 10:55 a. m. service; 6:30, orchestra; 7:30, evening service; 9:05, symphony. WOO Philadelphia, Pa. (508.2m-590kc) 10:45 a. m. service; 2:30 p. m. exercises; 6, organ. WOR Newark, N. J. (422.3m-710kc) 4:30 p. m. studio program; 6, ensemble; 7:45, concert. WPG Atlantic City, N. J. (272.6m-1100kc) 4:15, community recital; 5:15, twilight hour; 9:15, operatic ensemble; 10:30, Sunday evening musicale.

Eastern Standard or Central Daylight Saving Time Stations

KDKA Pittsburgh, Pa. (315.6m-950kc) 2 p. m., WJZ; 8, program; 9, WJZ. KYW Chicago, Ill. (528m-570kc) 1 p. m. WJZ; 5:30, Rev. G. J. Perini; 7:30-9:30, WJZ; 9:30-11, classical concert; 11, time. WAJU Columbus, Ohio (282.8m-1060kc) 10:30 a. m. service; 7:30 p. m. in. service. WBAL Baltimore, Md. (285.8m-1050kc) 6:30-7:30 p. m. WJZ; 7-8, concert.

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WRBM Chicago, Ill. (389.4m-770kc) 12:30 p. m. popular program; 4. orchestra; 4:30, Harding theater; 8, orchestra; 9, intermissions; 10, orchestra; 12, Nutty club.

WBCN Chicago, Ill. (288.3m-1040kc) 7:30-9:30 p. m. service.

WCFL Chicago, Ill. (483.6m-620kc) 2-5 p. m. fellow-ship league; 7:45, Baptist church.

WCSH Portland, Me. (361.2m-830kc) 10:30 a. m. church; 7:30, church.

WCX Detroit, Mich. (440.9m-680kc) 3:30 p. m. art talk; 7:15, Central Methodist Episcopal church.

WDBO Orlando, Fla. (288.3m-1040kc) 10:45 a. m. service; 3 p. m. organ; 7:30, service.

WDBH Chicago, Ill. (365.6m-820kc) 10:30 a. m. Seventh Church of Christ, Scientist; 6-7 p. m. organ; 7-9, Edgewater beach hotel orchestra.

WENR Chicago, Ill. (288.3m-1040kc) 6-7 p. m. music; 9:30-11, classical program.

WGHP Detroit, Mich. (319m-940kc) 7:30-8:30 First Church of Christ, Scientist; 8:30, Bible Students Assn.

WGN Chicago, Ill. (305.9m-980kc) 6:10 p. m. Punch and Judy; 6:45, string quintet; 7, Million sing; 7:20, old fashioned alma mater; 7:50, Black tone string quintet; 8, And Sandy; 8:15, WEAF; 9, Our Music Room; 10, Sam 'n' Henry; 10:10, vocal program; 10:30, organ.

WNY Schenectady, N. Y. (379.5m-790kc) 10 a. m. service; 3, organ; 8:15, WEAF; 8:45, talks.

WHK Cleveland, Ohio (265.3m-1130kc) 10 a. m. International Bible students' program; 5 p. m. Ervin May, Harold Stein, violinist and pianist; 6, Hotel Staller concert; 7:30, I. B. S. A. program; 8:45, Roy J. Crocker's program.

WHT Chicago, Ill. (416.4m-720kc) 5-6 p. m., 8-10, 11-12.

WIBO Chicago, Ill. (416.4m-720kc) 8:45 a. m., 2-4 p. m., 6-8 p. m., 10-11 p. m.

WJAX Jacksonville, Fla. (336.9m-690kc) 6:30 p. m. duet music; 7:30, service; 10:15, Little symphony.

WJAZ Chicago, Ill. (265.3m-1140kc) 7:30 p. m. orchestra; 8:15, studio program; 9, diversified program.

WJJD Chicago, Ill. (365.6m-820kc) 9 p. m. opera company.

WJR Detroit, Mich. (440.9m-680kc) 10 a. m. First Baptist church; 2, Novena service; 6, twilight hour; 10, song service, First Baptist church of Pontiac.

WLBB Chicago, Ill. (305.9m-980kc) 5-5:30 p. m. music; 5:30, songs; 5:50, songs, Tommy Coates; 6, string quintet.

WLS Chicago, Ill. (344.6m-870kc) 10:45 a. m. U. of C. church service; 12:15 p. m. organ concert; 1:30, chapel service; 7, WLS Little Brown church.

WLW Cincinnati, Ohio (428.3m-700kc) 7:30 p. m. service; 8:30, classical program.

WMAQ Chicago, Ill. (447.5m-670kc) 7 p. m. Reverie hour.

WOK Homewood, Ill. (252m-1190kc) 3-6 p. m. program.

WORD Balavia, Ill. (275m-1090kc) 10 a. m. I. B. S. A. service; 2:30 p. m. program; 7, orchestra, lecture.

WRC Washington, D. C. (463.5m-640kc) 11 a. m. service; 12 p. m. WIZ; 1 p. m. WIZ; 2-3, WEAF; 4, Washington cathedral; 6:20, WEAF; 6:15, WEAF; 9, WEAF.

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

WSBC Chicago, Ill. (232.4m-1290kc) 5-7 p. m. dinner concert; 9-11, popular program.

WSEA Norfolk, Va. (218.8m-1370kc) 6:30 p. m. news; 7, dinner concert; 10, orchestra.

WTAM Cleveland, Ohio (399.8m-750kc) 11 a. m. service; 3 p. m., music; 6, orchestra; 7, Park theater program; 8, service; 9, Evensong; 10, orchestra.

WWJ Detroit, Mich. (374.8m-800kc) 11 a. m. service; 6:20, WEAF; 8:15, WEAF.

WHAD Milwaukee, Wis. (293.9m-1020kc) 11 a. m. organ; 12, concert; 9, popular program.

WHAS Louisville, Ky. (461.3m-650kc) 10 a. m. service; 5:20, WEAF.

WHB Kansas City, Mo. (336.9m-890kc) 9:40 a. m. Lincoln Blvd. Christian church service; 11, Independence Blvd. Christian church; 7 p. m. Radio service; 8, program; 9, players; 11:15, Liuwood theater Radio lecture.

WHO Des Moines, Iowa (535.4m-560kc) 11 a. m. service; 4-5 p. m. glee club; 5-6, orchestra; 7:30-8:15, trio.

WLAC Nashville, Tenn. (226m-1330kc) 9:15 p. m. sacred music.

WOC Davenport, Ia. (352.7m-650kc) 1 p. m. old folks; 6:30, service; 7:15, musicale.

WOW Omaha, Neb. (508.2m-590kc) 9 a. m. service; 1:30 p. m. Father Flanagan's boys' home period; 2:30, old time songs for shut-ins; 9, chapel service.

WRR Dallas, Tex. (352.7m-650kc) 8-9 p. m. service; 9:30-10:30, operatic program.

WSB Atlanta, Ga. (475.9m-630kc) 5 p. m. vesper; 6:20, WEAF.

WSM Nashville, Tenn. (340.7m-880kc) 5:20-8:15 WEAF.

Mountain Standard Time Stations

KOA Denver Colo. (325.9m-920kc) 10:30 a. m. church service; 5:30, organ; 8, Denver Municipal band.

Pacific Standard Time Stations

KEX Portland, Ore. (239.9m-1250kc) 8 p. m. trio; 9, lecture.

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

KFON Long Beach, Calif. (241.6m-1240kc) 11 a. m. service; 6 p. m. request period; 9, studio frolic.

KFWB Hollywood, Calif. (361.2m-830kc) 8:30-9 p. m. music; 9-11, frolic.

KFWI San Francisco, Calif. (267m-1120kc) 1 p. m. recital; 7:30, church of Christ Scientist.

KGA Spokane, Wash. (260.7m-1150kc) 11 a. m. service; 8 p. m. service.

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

KGW Portland, Ore. (491.5m-610kc) 11 a. m. church; 7:30-9 p. m. church; 9-10, symphony orchestra; 10-11, symphony.

KHJ Los Angeles, Calif. (468.5m-640kc) 7-8 p. m. service, First M. E. church; 8-10, program.

KJR Seattle, Wash. (348.6m-660kc) 11 a. m. service; 6 p. m., dinner concert; 7:45, organ; 8, service; 9-10, studio program.

KNX Hollywood, Calif. (338.9m-890kc) 6:30 p. m. service; 9, features.

KOIN Portland, Ore. (319m-940kc) 6 p. m. dinner concert; 7:50, service; 9-10, concert.

KOMO Seattle, Wash. (303.9m-980kc) 11 a. m. service; 7 p. m. Bible Students' Assn.; 8, First Church of Christ, Scientist; 9, orange network.

KPO San Francisco, Calif. (422.3m-710kc) 6 p. m. States Restaurant orchestra; 6:35, Palace hotel concert orchestra; 8:35-10, Rudy Seiger's Fairmount hotel concert orchestra.

KPSN Pasadena, Calif. (315.6m-950kc) 10:30 a. m. Family Altar service, United Brotherhood.

KYA San Francisco, Calif. (309.1m-970kc) 11 a. m. Central Methodist Episcopal church; 7:30 p. m. service.

Sunday allent right fort CKAC, CKNC, CNRW, KPSD, KLY, KML, KOB, WDAF, WFIH, WHAD, WSMB, WRVA, WTAC, WTIC.

MONDAY, AUGUST 8

Headliners

Atlantic	Eastern	Central	Mountain	Pacific
7:15 p. m.	6:15	5:15	4:15	3:15
WTIC (475.9m-630kc)	"Goll," Jack Stalt.			
9	8	7	6	5
KENF 1270.1m-1110kc	John Belding.			
9:30	8:30	7:30	6:30	5:30
WFIH 1365.6m-820kc	Bobby Tucker, pianist.			

TUESDAY, AUGUST 9

Headliners

Atlantic	Eastern	Central	Mountain	Pacific
7:15 p. m.	6:15	5:15	4:15	3:15
WTIC (475.9m-630kc)	Kathleen Crowley Solomon, soprano.			
8	7	6	5	4
KTIS (384.4m-780kc)	Earl Thurston, organist.			
9	8	7	6	5
KENF (270.1m-1110kc)	Wm. MacDonald, Andrew Martin, violinists.			
9:30	8:30	7:30	6:30	5:30
WFIH 1365.6m-820kc	folk songs, Mr. and Mrs. H. A. Carlton.			

Atlantic Eastern Central Mountain Pacific

WEAF 1491.5m-610kc, **WJAR** (483.6m-620kc), **WLIT** (495.2m-740kc), **WTH** (475.9m-630kc), **WRC** 1468.5m-640kc, **WCSH** (361.2m-830kc), **WTAM** 1399.8m-750kc, **WVAE** (516.9m-800kc), **WDAF** (370.2m-810kc), **WWJ** (374.8m-800kc), "Le Nozze di Figaro."

10:05 9:05 8:05 7:05 6:05

WDDO (245.8m-1220kc) Hawaiian duo.

10:30 9:30 8:30 7:30 6:30

KOB 1374.5m-760kc "The Place of Chemistry in Modern Economic Life."

KTIS (384.4m-780kc) Arlington hotel concert.

WBO (535.4m-560kc), Jack Elliott's Novelty Trio.

11:15 10:15 9:15 8:15 7:15

KOA (325.9m-920kc) Part I, an hour with MacDowell; Part II, an hour with Victor Herbert.

WRVA 1254.1m-1180kc, Neapolitan night program.

11:30 10:30 9:30 8:30 7:30

KNX 1336.9m-890kc Curtain rises.

WBAF 1499.7m-600kc Graveyard Fiddle band.

12:30 a. m. 11:30 10:30 9:30 8:30

WHO 1535.4m-560kc Four Horsemen quartet.

TUESDAY, AUGUST 9

Headliners

Atlantic	Eastern	Central	Mountain	Pacific
7:15 p. m.	6:15	5:15	4:15	3:15
WTIC (475.9m-630kc)	Kathleen Crowley Solomon, soprano.			
8	7	6	5	4
KTIS (384.4m-780kc)	Earl Thurston, organist.			
9	8	7	6	5
KENF (270.1m-1110kc)	Wm. MacDonald, Andrew Martin, violinists.			
9:30	8:30	7:30	6:30	5:30
WFIH 1365.6m-820kc	folk songs, Mr. and Mrs. H. A. Carlton.			



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JOB paying \$50 and all the way up to \$200 a week are waiting for the Radio-trained man. Get into the new, growing Radio profession if you want to earn more money, have bigger opportunities for the future. I will train you at home in your spare time. Previous experience not needed—you learn quickly in a simple, clear and unforgettable way. Grade school education, or even less, is enough to start.

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64-Page Book Sent Free

Free—a 64-page book that tells you all about the bigger opportunities in Radio—the big money to be earned—how I'll prepare you thoroughly and completely in the quiet of your own home to enter any one of the twenty some odd lines of the Radio profession.

Book tells all about my ways of helping you earn extra spare-time cash almost from the day you start with me. Gives all information about the six big outfits of Radio material I send you to experiment with; you can build more than 100 Radio circuits with these outfits, yet there's no extra charge for them. Everything—all services and material—included in one tuition fee (and you'll find it's surprisingly low, and can be paid in very small monthly amounts). Get the proof for yourself. Radio needs you—learn right now what it has to offer you. No obligation for the book—it's sent free—just mail the coupon today.

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Dear Mr. Smith: Kindly send me your free 64-page book with all information about learning Radio for larger pay. I understand this places me under no obligation.

Name.....

Address.....

City..... State.....

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

Atlantic Eastern Central Mountain Pacific

WSAI 1361.2m-830kc Maids of Melody.

10:30 9:30 8:30 7:30 6:30

WFAA (499.7m-600kc) W. S. Lemly, Jr., tenor.

WHO (535.4m-560kc) Radio's Youngest baritone.

WJR (440.9m-680kc) Sandy and Gal.

WMAQ (447.5m-670kc) Isabelle Walker.

9 8 7 6 5

KOA (325.9m-920kc) Barceloolans.

11:15 10:15 9:15 8:15 7:15

WCFL (483.6m-620kc) Granada Stage show.

WEDNESDAY, AUGUST 10

Headliners

Atlantic	Eastern	Central	Mountain	Pacific
7:30 p. m.	6:30	5:30	4:30	3:30
WTIC (475.9m-630kc)	Albert Armstrong, baritone.			
7:45	6:45	5:45	4:45	3:45
WTIC 1475.9m-630kc	Elizabeth Flagg, pianist.			
8	7	6	5	4
WJR (440.9m-680kc)	Fontaine Six.			
8:30	7:30	6:30	5:30	4:30
WTIC 1475.9m-630kc	Arthur S. (soprano, tenor).			
8:45	7:45	6:45	5:45	4:45
WTIC (475.9m-630kc)	Edward L. Pettengill, violinist.			
9	8	7	6	5
KENF (270.1m-1110kc)	Cornfield Canaries.			
9:01	8:01	7:01	6:01	5:01
WSAI (361.2m-830kc)	Gertrude Arnold, mezzo-soprano.			

Only \$6.85

Balance COD

Below is a reproduction of Mr. Gale's letter of May 8th, 1927.

48 W. Fulton St., Groversville, N. Y.



Received the Townsend all O. K. It is the best in the world and that is saying some. I have a Radiola 4 tube. Get more stations than ever before. Some of them are CFCF, CKNC, WGV, KDKA, WGZ, WIP, WWJ, KTHS, KOP, KOA, WHAS, WTAM and KSD—besides 4 in Chicago, all in the East and then some.

A. W. Gale.

Replaces "B" Batteries

The letter above speaks for itself—proves beyond doubt that the Townsend "B" Socket Power is the most remarkable value in Radio today. Sam E. Fry of 1415 Holmes St., Kansas City, Mo., writes: "Eliminator works fine. Showed it to a friend and he wants one also. I will say it sure beats batteries. I get stations I never got before on a 6 tube set." Charles Ellis, 88 Jones Ave., Columbus, Ohio, says, "Your Eliminator is working fine. Have had station WJAX and others over 1,000 miles distant. Picked up 22 different stations one evening and around 30 another time. My neighbor has a \$27.50 Eliminator and I don't see that it works any better than yours."

Delivers up to 100 volts on any set, on D. C. or A. C.—any cycle. Full tone, clarity and volume.

Tested and approved by America's leading Radio authorities—Radio News and Popular Radio Laboratories

ORDER TODAY!

Simply fill out the coupon and slip it into an envelope with only \$1.00 and mail at once. Your Townsend "B" Socket Power Unit will be sent promptly. Deposit only \$5.85 plus postage with the postman. Try out for 10 days—then if not delighted with improvement in reception, return it to us and purchase price will be refunded.

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713 Townsend St., Dept. 17, Chicago, Ill.

Attach Only \$1.00 to this Coupon!

SEND TODAY

10 Days FREE TRIAL

You are the Judge!

TOWNSEND LABORATORIES

713 Townsend St. Dept. 17, Chicago, Ill.

Gentlemen: Attached find \$1.00. Kindly send at once Townsend "B" Socket Power Unit, C. O. D., for \$5.85, plus postage, on guaranteed 10-day free trial.

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Address.....

City..... State.....

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

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Distinguished for quality of service at moderate cost. Near the big downtown stores and theaters. Quick transportation to parks, beaches, summer gardens, golf grounds. Garage nearby extends special courtesies to Brevort guests. Cars called for and delivered.

Rooms: Single, \$2.50 to \$5. a day
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GIVES old receivers the improved tone volume control of latest, best sets. Replaces present speaker plug. Tune in with dials. Then modulate to any degree on Modu Plug alone (between speaker and set). Reduces interfering noises. Attaches without tools. Nothing else like it. Cord or Jack Type, \$2.50 at dealers, or mailed C. O. D. Parts manufacturers for 69 makers of leading standard sets.

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"B" BATTERY ELIMINATOR

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No more worry with "B" Batteries! Hook up a Roll-O "B" Battery Eliminator and forget battery troubles forever. This wonderful new invention means better reception, sharper tuning. Gives you more real pleasure from your set. Completely Equipped—No "Extras" to Buy. Operates perfectly on direct or alternating current, giving up to 90 volts current, and using the full wave of the power supply. Simple directions enclosed—anyone can plug it in to any kind of set up to six tubes. Constant voltage gives set more power. Costs no more than set of good "B" Batteries. Solidly built in beautifully finished metal case, with genuine Bakelite top.

SEND YOUR ORDER NOW

Don't blame your set because run down "B" Batteries won't let it work right. Order your Eliminator NOW. Write name and address on a piece of paper, pin a dollar bill to it, and mail it TODAY. Pay postman balance (\$6.95 plus a few cents postage when he delivers your Eliminator. Use it for ten days. If not more than satisfied, return it and get your money back.

THE ROLL-O RADIO CO.
Dept. Y-200 3d & Sycamore, Cincinnati, O.

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Thursday, August 11.

THURSDAY, AUGUST 11 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Friday, August 12.

FRIDAY, AUGUST 12 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Saturday, August 13.

SATURDAY, AUGUST 13 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Sunday, August 14.

SUNDAY, AUGUST 14 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Monday, August 15.

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Tuesday, August 16.

MONDAY, AUGUST 15 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Wednesday, August 17.

TUESDAY, AUGUST 16 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Thursday, August 18.

WEDNESDAY, AUGUST 17 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Friday, August 19.

FRIDAY, AUGUST 19 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Saturday, August 20.

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Sunday, August 21.

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Monday, August 22.

SATURDAY, AUGUST 20 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Tuesday, August 23.

SUNDAY, AUGUST 21 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Wednesday, August 24.

MONDAY, AUGUST 22 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Thursday, August 25.

TUESDAY, AUGUST 23 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Friday, August 26.

WEDNESDAY, AUGUST 24 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Saturday, August 27.

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Sunday, August 28.

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Monday, August 29.

THURSDAY, AUGUST 25 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Friday, August 30.

FRIDAY, AUGUST 26 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Saturday, August 31.

SATURDAY, AUGUST 27 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Sunday, August 28.

SUNDAY, AUGUST 28 Headliners

Table with 5 columns: Atlantic, Eastern, Central, Mountain, Pacific. Lists radio stations and their programs for Monday, August 29.

Advertisement for 'The New SONOCHORDE CONE' speaker. Features a large image of the speaker and text describing its features and price (\$25).

Advertisement for 'Another "ENSCO" Improvement' speaker kit. Features a large image of the speaker and text describing its features and price (\$10).

Atlantic Eastern Central Mountain Pacific			
8:45 p.m.	7:45	8:45	8:45
WKDK 1315.6m-950kc	Municipal band, Schenley park.		
WCAU 1277.5m-1080kc	One hour Andy and his group.		
WLW 1428m-700kc	Crosley concert orchestra.		
WTAM (399.2m-750kc)	Symphony concert.		
WSBC (232.4m-1290kc)	Symatrupe ensemble.		
KOA (235.9m-920kc)	Denver Municipal band.		
KTHS (384.4m-780kc)	Earl and Pat.		
WBBM 1398.4m-770kc	Nutty club.		

MONDAY, AUGUST 29
Headliners

Atlantic Eastern Central Mountain Pacific			
8 p.m.	7	6	5
KFNF 1270.1m-1110kc	concert, Luetia.		
WZL 1333.1m-960kc	Allegro Drum Corps.		
WJR 1440.9m-600kc	Minstrels.		
WCAU 1277.5m-1080kc	Oriental.		
WEEI 1447.5m-670kc	O'Leary's Irish Minstrels.		
WJAX (336.9m-890kc)	Old time fiddlers.		
WLW 1428m-700kc	Crosley review.		
WTIC 1475.9m-630kc	Club Worthy orchestra.		
WKVA (254.1m-1180kc)	"The Morning of the Year."		
WBN (394.5m-760kc)	Cotton club orchestra.		
KFWB (361.2m-830kc)	Vernon Richard, tenor.		

CLASSIFIED ADVERTISEMENTS

HOW about that new set you want to buy? What are you going to do with the old one? A Radio Digest classified advertisement will sell it for you. Rates are twenty cents a word for each insertion. Five per cent discount for four insertions, 10 per cent discount for six insertions, 15 per cent discount for twelve insertions, 20 per cent discount for twenty-four insertions (each issue for 1 year). Name and address are counted. Two initials count one word. Cash must accompany order. Minimum of ten words. Objectionable and misleading advertisements not accepted.

HELP WANTED

Radio Engineer desires permanent connection with responsible firm or broadcast station. References. Box 104, Winnebago, Minnesota.

MAPS

New Radio Maps. We are now able to supply our readers with new radio maps, showing location of stations, list of all stations by call letters. Come folded in cover, but may be used for pasting on cardboard. Size 28x34". Send 25 cents stamps or coin to Shopping Service, Radio Digest, 510 N. Dearborn St., Chicago, Ill.

MISCELLANEOUS

Modern Housekeeping Hour; Less Work in the American home. A welcome guest in more than one million homes. (Copyright 1927, Radio Digest Publishing Co.) For information write Bureau of Broadcasting, Radio Digest, 510 N. Dearborn St., Chicago, Ill.

The new and improved Proof of Reception Cards are the most practical and convenient proof of reception of those distant stations. Contains spaces for complete reception record, dial settings, call letters, stamps and signature of announcer. Handy size, 3x5 inches. 150 for \$1 or send 25 cents (stamps or coin) for sample package. (Shopping Service, Radio Digest, 510 N. Dearborn St., Chicago, Ill.)

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PATENTS. Booklet free. Highest references. Best results. WATSON E. COLEMAN, Patent Lawyer, 724 Ninth St., N. W., Washington, D. C.

RADIO

Change your phonograph into a loud speaker with the Fultone Unit for only \$2 C. O. D., or postpaid if cash accompanies order. Bronstein's Pharmacy, 4600 Lincoln Ave., Chicago.

Will trade Grebe receiving set and Radio experimental apparatus. What have you? M. K. JACOBS, Keudallyville, Ind.

We have an oversupply of the famous Fultone loud speakers which we are disposing of at only \$4.95 C. O. D., or postpaid if cash accompanies the order. Bronstein's Pharmacy, 4600 Lincoln Ave., Chicago.

FOR SALE—Equipment of private laboratory at a sacrifice—Daven Resistance Coupled Amplifier unit, \$5.00—4 Filko-stats, 35c each—1 Filko-leak, 25c—1 Filko-arrestor, 35c—6 Na Aid 3-inch dials, 10c each—3 Gee-Haw 100 to 1 vernier dials, \$1.00 each—2 B-T tuning dials, \$1.25 each—150 turn Coto-Coll, 25c. Box 27, Radio Digest, 510 N. Dearborn St., Chicago.

TUESDAY, AUGUST 30
Headliners

Atlantic Eastern Central Mountain Pacific			
7:15 p.m.	6:15	5:15	4:15
WTIC 1475.9m-630kc	Ruby Hart, pianist.		
WGN 1306m-950kc	Old Fashioned Almanack.		
WLW 1428m-700kc	Crosley Pops.		
WORD 1275m-1090kc	Girvin Institute of Musical Art.		
KFNF 1270.1m-1110kc	Wm. MacDonald, Andrew Martin, violins.		
WJJD (365.6m-820kc)	Vanity Fair serenaders.		
WBBB (252m-1190kc)	popular frolic, Trianon orchestra.		
WBAL (285m-1050kc)	City Park orchestra.		
WCAU 1277.5m-1080kc	Ten Musical Scenes.		
WEEI 1447.5m-670kc	Uptown theater.		
WJR 1440.9m-600kc	Samsy and Gal.		
WMAQ 1447.5m-670kc	Oriental male quartet.		
WPG 1272.6m-1100kc	Marcelle Dan.		
WSBC (232.4m-1290kc)	Melody Girls.		
KOA (235.9m-920kc)	Barcelonians.		
WHLN (394.5m-760kc)	Paramount Three harmony sinners.		
12 mid.	11	10	9
WCFL 1483.6m-620kc	Charlie White.		
12:35 a.m.	11:35	10:35	9:35
KTHS (384.4m-780kc)	Pittsburgh Post theatrical revue.		

WEDNESDAY, AUGUST 31
Headliners

Atlantic Eastern Central Mountain Pacific			
8 p.m.	7	6	5
WGR 1303m-990kc	Buffalo Beethoven symphony orchestra.		
WMBB 1252m-1190kc	Trianon ensemble.		
WTIC 1475.9m-630kc	WTIC serenaders.		
KFNF (270.1m-1110kc)	Cornfield Canaries.		
WABC (325.9m-920kc)	Atlantic Air theater presentation.		
WJJD (365.6m-820kc)	Tirol theater.		
WLW 1428m-700kc	Harmony Four.		
WMAQ (447.5m-670kc)	Edna Hall Frain, pianist.		
WORD (275m-1090kc)	I. H. S. A. choral sinners.		
WJR 1440.9m-600kc	Old time song revue.		
WDAI (302.8m-990kc)	Uiah program.		
WPG 1272.6m-1100kc	Sand Pipers.		
WSBC (232.4m-1290kc)	Hugh Swift and his serenaders.		
WCAU 1277.5m-1080kc	Cheer-up club.		
11:30	10:30	9:30	8:30
WKVA (254.1m-1180kc)	Regimental band.		
12 mid.	11	10	9
WCFL 1483.6m-620kc	Billy Allen Huff.		
WBN (394.5m-760kc)	Frivolity club orchestra.		

"TORCH OF YOUTH"

(Continued from page 7)

essary adjustment and uttered another grunt.

"Waco Willie—the new man Nate got from Texas, a flier, too—bulls-eye shooter. I wonder what he's got in the side car—something funny."

Uncle Joe did not dare take his eyes from the treacherous road. But the others were scanning the distantly moving objects closely. One of them unsnapped one of the suitcases and there was a sound of metallic units being clicked together.

"I don't think there will be much of a chance to use machine guns," said Uncle Joe. "We must protect the girl first."

Then came a short sput of good road which ended with a sudden swerve across a bridge over the roadside ditch and into a sprawling wagon road into the open prairie.

No sooner had they cut into the field than the Genatl car began to show signs of speed. The motorcycle also quickened its pace. Suddenly there was a roar and a puff of smoke from the rear of the kidnaper's machine. Doubtless a rain of slugs had come back to the motorcycle, but seemingly without causing serious damage.

The accelerated speed seemed to drive the runaway car into new perils. Just as a second charge was fired from the rear the machine dropped into a chuk hole and when it came up the rear fender was scraping on the tire. There was no firing from the motorcycle, but a man in a white shirt, loose flying sleeves and black trousers, arose from the side ear with a yell.

TUNE BY FREQUENCIES

RADEX turns frequencies or kilocycles into dial numbers so you can set your dials exactly for any station in America.

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Fourth Year

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"CHASE 'em—rush 'em fast!" His voice could be heard by the men in the big machine lurching across the prairie. Overhead could be heard the rumble of the airplane.

"That's young Boescher," called Uncle Joe. "I'd know that chunky, square head anywhere."

The motorcycle began to pop and speed forward now. Firing continued from the rear of the touting car, but it was unsteady and ineffective. Suddenly the machine slipped and almost instantly the motorcycle was alongside. A shotgun barrel was thrust through the curtains. Boescher leaped to the runningboard and seized it with a sudden twisting wrench. Waco Willie leveled his revolver toward the butt of the gun and fired a shot that dropped the heavier gun in the road. Simultaneously Karl fired a shot into the driver's place.

Like a wounded living thing the "slaughter bus" wobbled crazily, then careened toward the motorcycle. There was no escape. Clashing metal was followed by a sickening crunch as both machines toppled into the ditch beside the road.

For a moment there was death-like stillness over the mess. Waco Willie was the first to extricate himself. He pulled Karl from the tangled debris, half alive. "Get that girl out of there!" Boescher commanded as he lay helpless on the frozen grass.

But before Waco Willie could move two other khaki figures were prying at the jammed side door over the overturned vehicle.

"Babe!" Almost speechless with amazement Karl screamed at a Herculean figure pulling the limp blood-smeared figure of a girl from the wreckage. He did not answer.

"Oh Da, Da—look at me." Tears were running down the big man's cheeks. "Look! Are you hurt? I'll wring their necks, if you are."

She opened her eyes drowsily. "I guess I'm all right," she said. "When I felt the car going I huddled into a ball between the seats. The others were too scared to notice me. That blood is from the man they shot. He rolled against me."

Nothing else mattered. Babe picked the girl up in his arms and carried her away. They were on the edge of the new Cicero flying field. The plane that had been flying overhead had come to a stop at the very brink of the roadway.

"I WAS flying away with this man, but I could not leave without seeing you first and telling you what had happened. I am going back to Ivanhoe and tell Prexy all about it, too. Then I heard from the people who were helping me to get away that you were kidnaped. The spies of this gang obtained all the information and—ah!"

A big limousine rolled up to the side of the plane. A lithe, gray haired man sprang out and came striding over to the young man and woman.

"Well, hy gorry, you two did finally get together. I just heard you had started for the Minnesota woods." He turned to Babe. "I did Uncle—Unc—Mr. Grant. But I had to come back. I have some things to tell you—and also Miss Nevens—a whole lot."

"I'm mighty curious, but I think mine will wait—and if it has anything to do with Hertz laboratory, forget it."

"That's it—Unc—"

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"Go ahead, call me Uncle Joe—I'll be proud—always proud of you, my boy."

"So will I, Omar!" Wanda smiled mysteriously. "Listen," there was a happy twinkle in Uncle Joe's eye. "It's almost time for the mid-winter vacation—or is that past?—well, anyway I think I can fix up a special vacation for you both. I'm a good friend of President Alexander. Now, here's a good ship, eager and ready to fly. Suppose you two hop in and go on up there where the snow stays on all the year around. Then we'll both terminate all further business relations with any of our embarrassing—or—er—associates and try to study sociology from a different slant."

"I feel like an outsider," said Wanda. "but we Pinks are simply burning up with social ideas—"

"Lighting the path of progress—" chortled Uncle Joe. "I'll bet you won't make such a blundering mess of it as some of us men. Anyway I'm old fashioned enough to suggest that if you stop long among the wild Indians up there on the reservation—you'd better see a missionary or jump over a broomstick or something—eh?"

"YOU are making me blush, Unc—" Wanda turned her face away. "Uncle Joe—go ahead and say it. I want always to be Uncle to both of you."

"Did you folks witness this accident?" A highway policeman stepped up to them with notebook in hand and inquired brusquely. "What accident—why, oh yes," smiled Uncle Joe. "Did you see it from the air before you landed?" He turned a half wink on Babe, who had an arm about Wanda's shoulder.

"No," answered Enbe with a worried frown. "Then you two had better be on your way before you are drawn into this. Good-bye." He almost shoved them into the plane, which had been turned around. The pilot already was in his seat. The propeller whirled with the assistance of Waco Willie. The big bird trundled over the rough field and soon lifted clear. Uncle Joe stood shading his eyes and followed them as they headed into the north sky.

"I was driving on the other road," he said, finally turning toward the policeman. "I started across the field, and met my friends here who had just landed. Was the accident serious?"

"There's something queer about it. Two of 'em were shot, but they won't say anything. Looks like a gang war fight. But there was a young fellow got a leg broke when the big car struck a motorcycle. He says he doesn't know anything about it. They tumbled over on him when he was going by."

They started walking toward the scene. But when they got there the man with the broken leg and one of the other men and the motorcycle were gone.

(The End)

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Radiophone Broadcasting Stations

Corrected Every Issue—Part III—August, 1927

ONE DOLLAR will be paid to the Radio fan reader of Radio Digest submitting the most errors in any one station's listing in the Directory of Radiophone Stations, which appears in six parts. Letters must reach Radio Digest's office not later than one week from date of issue corrected. Readers are not limited to correcting one station, but such corrections must be verified by the stations themselves, and NOT by comparison to other so-called accurate Radio directories or lists. Verifications must accompany corrections. Turn in corrections for as many stations as you can find—if you can find errors! Use separate sheet of paper for each station submitted and place name and address on each sheet. In case of tie, duplicate awards will be made. Because many stations are uncertain about broadcasting periods, the schedules will not count on this issue's challenge.

United States (Cont'd)

WBBZ, Chicago, Ill. 204m-1470kc. 100 watts. C. L. Carrell.

WBCN, Chicago, Ill. 283.3m-1040kc. 250 watts. Great Lakes Broadcasting Co. Daily ex Sun, 9:45-11 am, home service; 3-6, ten times a week. Daily ex Sun, 5:30-6 pm, notice bulletins. Daily ex Sun, Mon, 7-8 pm. Wed, Fri, Sat, 10-12 pm. Tues, 10-11 am, Pirate Ship. Thurs, 10-11 am, Sun, 10:30-12:15 pm, church service; 4-6 pm, concert; 7:45-9:15, church service. Central.

WBES, Takoma Park, Md. 296.9m-1010kc. 100 watts. Bliss Elec. School, Announcer, Wm. M. Johnson, Jr. Fri, 6-7 pm. Eastern.

WBET, Boston, Mass. 265.3m-1130kc. 500 watts. Boston Transcript Co.

WBKN, Brooklyn, N. Y. 267.7m-1120kc. 100 watts. Arthur Fiske.

WBMH, Detroit, Mich. 211.1m-1420kc. 100 watts. Braun's Music House.

WBMS, Union City, N. J. 267.7m-1120kc. 100 watts. George Julius Schorer, Slogan, "The Voice of Union City." Daily ex Sun, 12-1 pm, 5-6:30, 8-12 mid. Sun, 2-6 pm, 8-12 mid. Daily ex Sun, 8:30-12 mid. Sun, 1-3 pm, 7:30-11. Eastern.

WBNY, New York, N. Y. 236.1m-1270kc. 500 watts. B. A. Richmond Co. Daily ex Sat, Sun, 7-11 pm. Sun, 2:30 pm; 6. Eastern.

WBOQ, Richmond Hill, N. Y. 325.9m-920kc. 500 watts. Atlantic Broadcasting Co. Tues, Thurs, Sat, 9:55-10:05 pm, time, weather. Eastern.

WBRC, Birmingham, Ala. 243.8m-1230kc. 250 watts. Birmingham Broadcasting Co. Announcer, Dud Connelly, Slogan, "The Biggest Little Station in the World." Mon, Tues, Wed, Fri, 8-10 pm, Sat, 12-1 am. Sun, 11 am-1 pm; 7:30-9:30 pm. Central.

WBRE, Wilkes-Barre, Pa. 249.9m-1200kc. 100 watts. Baltimore Radio Exchange, Announcer, Louis G. Baltimore, Wed, Fri, Sun, 8:30-11 pm. Sun, 9-12 mid. Eastern.

WBRL, Tilton, N. H. 232.4m-1290kc. 500 watts. Both Radio Laboratories. Tues, Thurs, Sat, 8 pm. Wed, 8:30 pm. Sun, 10:30 am, 7 pm. Services. Eastern.

WBRS, Brooklyn, N. Y. 211.1m-1420kc. 100 watts. Universal Radio Mfg. Co. Announcer, Gerard Miller. Daily ex Sun, 8-11 pm. Sun, 2-5 pm. Eastern.

WBSO, Wellesley Hills, Mass. 384.4m-780kc. 100 watts. Babson's Statistical organization.

WBT, Charlotte, N. C. 258.5m-1160kc. 250 watts. C. C. Codding, Inc. Announcer, H. W. Rurwell. Daily ex Sun, 12:30-1:30 pm, 7-8, 9-10. Eastern.

WBZ, Springfield, Mass. 333.1m-900kc. 15,000 watts. Westinghouse Elec. & Mfg. Co. Announcer, Ailau Redmond. Daily ex Sun, 6-8 pm, music, markets; 8-10, music. Tues, Thurs, Sat, 10:45 am, household. Sun, 7 pm, organ; 8:30, concert. Eastern.

WBZA, Boston, Mass. 333.1m-900kc. 500 watts. Westinghouse Elec. & Mfg. Co. Same programs as WBZ.

WCAC, Mansfield, Conn. 275.1m-1090kc. 500 watts. Connecticut Agricultural College, Announcer, Daniel E. Nolle, Slogan, "From the Sun to the Moon." Wed, Fri, 6:30-7:30 pm; 12:45-1 am. Eastern.

WCAD, Canton, N. Y. 365.6m-820kc. 500 watts. St. Lawrence University, Announcer, Ward C. Priest, Slogan, "The Voice of the North Country." Daily, 11 am, weather, reports, talks, music, time. Wed, 8 pm. Eastern.

WCAE, Pittsburgh, Pa. 516.9m-580kc. 500 watts. Pittsburgh Press, Announcer, Jerry Wyman. Mon, Wed, Sat, 11:15 am. Daily ex Sun, 6:45 am, 7:45, 10 exercises; 12:05 pm, farm talks; 12:15, flashes; 12:30, weather; 4 WEA, 6, dinner hour; 7, 8, 9, 10 pm, news; 4, 5, 5:40, markets; 5:50, farm school. Sun, 9:30 am, 11, 3 pm, organ; 4, 5:30, 6:30, 7:18, WEAF; 9:15, WEAF; 10:15, music. Eastern.

WCAH, Columbus, Ohio. 535.4m-560kc. 250 watts. Bantekin Elec. Co. Tues, 8-10:30 pm. Sun, 10:30 am, 12 n, 7:30-9 pm. Every other Sun, 4 pm. Eastern.

WCAJ, University Place, Nehr. 379.5m-790kc. 500 watts. Nebraska Wesleyan University, Announcer, J. C. Jensen. Daily, 5:30 pm, news. Mon, Wed, Fri, 10 am, services; Tues, Fri, 12 n, music. Tues, 7 pm, Bible study; Wed, 9 pm, music. Sun, 11 am, 7:30 pm, services. Central.

WCAL, Northfield, Minn. 236.1m-1270kc. 500 watts. Dept. of Physics, St. Olaf College, Announcer, Hector Skifter, Slogan, "The College on the Hill." Daily ex Sun, 9:45 am, Mon, 7 pm; 8:15. Sun, 8:30-9:30 am; 3-4 pm. Central.

WCAM, Camden, N. J. 223.7m-1340kc. 500 watts. City of Camden, Announcer, J. A. Howell. Mon, Wed, 7-10 pm. Fri, 8-11 pm. Sun, 10-12 n, 7-9 pm. Eastern.

WCAP, Baltimore, Md. 384.4m-780kc. 250 watts. Monumental Radio, Inc. Announcer, Wm. L. Atkinson. Mon, Wed, Fri, 7-11 pm. Wed, 1-4:30 pm. Sun, 11-12 n, 8-10 pm. Eastern.

WCAT, Rapid City, S. D. 247.8m-1210kc. 100 watts. South Dakota State School of Mines, Announcer, C. H. Kammerman. Daily ex Sun, 9:30 am, 12:30 weather, reports, Thurs, 7:30 pm, concert. Mountain.

WCAU, Philadelphia, Pa. 277.6m-1080kc. 500 watts. Universal Broadcasting Co. Announcer, Stan Lee Broza, Slogan, "Where Choice Awards U." Mon, Wed, Fri, 10 am, news; 10:45-12 midnight, Wed, 6:45-12:30 am. Thurs, 6:30-12 midnight. Fri, 6:45-12:30 am. Sun, 5-9 pm. Eastern.

WCAX, Burlington, Vt. 254.1m-1180kc. 100 watts. University of Vermont, Slogan, "The Voice of the Green Mountains." Fri, 7-8 pm. Eastern.

WCAZ, Carthage, Ill. 340.7m-850kc. 50 watts. Carthage College.

WCBA, Allentown, Pa. 222.1m-1350kc. 100 watts. Queen City Radio station. Wed, 8:15-11 pm. Fri, 7:30-10:30 pm. Sat, 10-11 pm, dance music. Sun, 10 am, 5:30 pm, 7, church service. Eastern.

WCBD, Zion, Ill. 344.6m-870kc. 5,000 watts. Wilbur Glenn Voliva, Announcer, J. H. DeWey, Slogan, "Where God Rules, Man Prospers." Tues, Thurs, 9-11:30 pm, concert. Wed, 1:30-2 pm, organ. Thurs, 2:30-3:45 pm, service. Sun, 9:10:45 am, Bible school; 2:30-6 pm, church services; 9-11:30 pm. Central.

WCBE, New Orleans, La. 227.1m-1320kc. 5 watts. Uhalt Brothers Radio Co. Announcer, Joe Uhalt, Slogan, "Second Port U. S. A." Daily ex Sun, 11:30-12:30 pm. Daily, 7:30-8:30 pm, dance. Sun, 12:30-3 pm, dinner concert; 9, dance music. Central.

WCBF, Oxford, Mass. 241.4m-240kc. 100 watts. University of Mississippi, Announcer, C. H. McCrairie, Slogan, "The Voice of Old Miss." Wed, 8:30-9:30 pm. Central.

WCBM, Baltimore, Md. 384.4m-780kc. 100 watts. Hotel Chateau, Announcer, Harry J. Dobe. Mon, Wed, Sat, 10-12 mid. Sun, 9:45 pm. Eastern.

WCBR, Providence, R. I. 201.2m-1490kc. 100 watts. Charles B. Messter, (Portable).

WCBS, Springfield, Ill. 207.7m-1430kc. 250 watts. Harold L. Dewing, Charles H. Messter (Portable).

WCCO, Minneapolis-St. Paul, Minn. 405.2m-740kc. 5,000 watts. Washburn-Crosby Co. Announcer, Paul Johnson, Slogan, "Service to the Northwest." Daily ex Sun, 3-3:30 pm, 10:30-11:30 pm, markets; 10:30, markets; 11:30, markets; 12, farm hour; 1, weather; 1:30, markets; 2, 3, markets; 4, realtors; 5:15, children's hour; 5:45, livestock. Mon, 6:15 pm, music; 7:30, farm talk; 8, U. of Minn. 9, program; 10, weather; 11, dance program; 11:45, organ. Tues, 7 pm, New York; 8, music; 10, weather; 10:45, music; 11:30, farm talk; 8, WEAF; 8:30, program; 9, WEAF; 10, weather, grain; 10:30, dance; 11:30, organ. Thurs, 6:15 pm, dinner concert; 7:15 talk; 8, WEAF; 10, weather, markets; 10:05, talk. Fri, 6:15 pm, dinner concert; 7, WEAF; 8, music; 9, WEAF; 9:30, music; 10, weather; 10:05, music. Sat, 6:15 pm, music; 7:45, talk; 9, music; 10, weather, dance program. Central.

WCDA, Brooklyn, N. Y. 211.1m-1420kc. 250 watts. Italian Educational Broadcasting Co.

WCFL, Chicago, Ill. 483.6m-620kc. 1500 watts. Chicago Federation of Labor, Announcer, Joe Warner, Slogan, "The Voice of Labor." Daily ex Sun, 6-12 pm. Central daylight.

WCGU, Cooper Island, N. J. 211.1m-1420kc. 500 watts. Charles G. Unger. Daily ex Sun, 7 pm. Sun, 1-2 pm. Eastern.

WCLO, Camp Lake, Wis. 227.1m-1320kc. 100 watts. C. E. Whitmore.

WCLS, Joliet, Ill. 215.7m-1390kc. 150 watts. WCL Inc. Slogan, "Will County's Largest Store." Tues, Wed, Fri, Sat, 8-11 pm. Sun, 9:30-12 n, 10-11. Central.

WCMA, Culver, Ind. 258.5m-1160kc. 500 watts. Culver Military Academy, Announcer, C. F. McKinney. Daily ex Sun, 12 n, public service hour. Mon, 8-10:30 pm. Wed, 8-10 pm. Sun, 11-12:30 pm. Chapel service. Central.

WCOC, Pensacola, Fla. 249.9m-1200kc. 500 watts. Municipal Broadcasting Station, Announcer, John E. Frenkel, Slogan, "Wonderful City of Advantages." Daily ex Sun, 10:30 am, 12:30 pm. Mon, Wed, Fri, 7 pm. Sun, 11 am, 12:30, 7:25 pm. 6. Central.

WCOB, Columbus, Miss. 230.6m-1300kc. 100 watts. Crystal Oil Co.

WCOM, Manchester, N. H. 238m-1260kc. 100 watts. 122nd Field Artillery Headquarters.

WCOT, Olneyville, R. I. 225.4m-1330kc. 50 watts. Jacob Com.

WCRW, Chicago, Ill. 223.7m-1340kc. 500 watts. Clinton R. Accessories, Inc. Announcer, F. E. "For Your Entertainment."

WCSE, Portland, Me. 361.2m-830kc. 500 watts. Coagres Square, Announcer, J. T. Pitman. Daily ex Sun, Sat, 9 am, household; 11:57 am, time; 12, stocks, weather; 2 pm, music hour; 6, stocks, weather; 6:10, news. Mon, 7:30 pm, 7:45, 9, WEAF. Tues, 8 pm, 9:30 WEAF. Wed, 8 pm, 8:30, WEAF. Thurs, 8 pm, WEAF. Fri, 7 pm, 8, 8:30, 9, Sun, 9:30 am, service; 12:30 pm, Radio Parish; 6:30 service.

WCSP, Springfield, Ohio. 256.3m-1170kc. 500 watts. Wittenberg College, Announcer, Lester Crowl. Fri, 8-9 pm. Central.

WCWK, Fort Wayne, Ind. 228.9m-1310kc. 500 watts. Chester W. Keen, Slogan, "The Home Sweet Home Station." Daily ex Sun, 11-12 n, 5:30-6 pm. Tues, Fri, 7-11 pm. Central.

WCWS, Danbury, Conn. 214.2m-1400kc. 100 watts. Bridgeport Broadcasting Station.

WCX, Pontiac, Mich. 440.9m-680kc. 5,000 watts. The Detroit Free Press, Announcer, C. D. Tomy, Club, "Red Apple Club." Daily ex Sun, 4 pm, news, stock reports, weather, markets; 6, dinner concert; Tues, 10-2 am, club. Fri, 10-11 pm, dance. Sun, 7:15 pm. Eastern.

WDAD, Nashville, Tenn. 225.4m-1330kc. 500 watts. Dads Auto Accessories, Inc. Announcer, F. E. Exim, Slogan, "The Athens of the South." Mon, Wed, Sat, 11:45 am, 12:45, 3-4 pm, 9-10. Tues, Fri, 11:45 am, 12:45, 3-4 pm, 7-9 pm. Sun, 3-4:30 pm, 5-6. Central.

WDAE, Tampa, Fla. 267.7m-1120kc. 500 watts. Tampa Daily Times, Announcer, Bruce Linn, Daily ex Sun, 7-12 mid. Sun, 7:30-9:30 pm. Eastern.

WDAF, Kansas City, Mo. 370.2m-810kc. 1,000 watts. Kansas City Star, Announcer, H. Dean Feltner, Club, "Nighthawks." Daily ex Sun, 12:45 pm, 12:45, 3:45 pm, music. 6-7 pm, markets, weather, music; 11:45, Nighthawks, Mon, Wed, Fri, 10:45 am, Betty Crocker. Mon, Wed, Fri, Sat, 8-10 pm. Sun, 3-4 pm, 4:4-4:45. Central.

WDAG, Amarillo, Texas. 263m-1140kc. 250 watts. J. Lawrence Martin.

WDAH, El Paso, Tex. 211.2m-1280kc. 100 watts. First City Methodist church, Announcer, Louis Genivets, Wed, 7:30-10 pm. Sun, 9:30-12 n, 7:30-9 pm. Central.

WDAY, Fargo, N. D. 361.2m-830kc. 250 watts. Radio Equipment Corporation, Announcer, Earl Reineke, Slogan, "The Biggest Little City in the World." Daily ex Sun, 10 am, markets, weather, news; 11, markets; 11:55, clearing house; 12 n, markets; 12:05, "The Bug and Jantor"; 12:30, music; 2, markets; 5, music; 5:30, story lady; 5:45, news; 6, music; 7:30, N. D. A. C. Sun, 10:30 am, service; 1 pm, service; 2, service; 4, music; 5, music. Central.

WDBJ, Roanoke, Va. 230.6m-1300kc. 250 watts. Richardson Wayland Elec. Corp. Announcer, Glen Bay, Slogan, "Roanoke Down in the Valley." Daily ex Sun, 12:1 pm, music; 5:30-5:45, music. News, weather, Mon, 8-9 pm. Wed, Sat, 9 pm, concert. Sun, 7:45 pm, church. Eastern.

WDBK, Cleveland, Ohio. 227m-1320kc. 250 watts. WDBK Broadcasting Station Co., Inc.

WDBO, Orlando, Fla. 288.3m-1040kc. 500 watts. Orlando Broadcasting Co. Announcer, Harold Danforth, Slogan, "The Voice of Central Florida." Daily ex Sun, 7:30-10:30 pm. Sun, 10:45 am, 4 pm, 7-30. Eastern.

WDBZ, Kingston, N. Y. 215.7m-1390kc. 50 watts. Holy Scouts of America, Announcer, G. Henry Nesslage.

WDEL, Wilmington, Del. 265.3m-1130kc. 100 watts. Wilmington Elec. Stel. Co. Announcer, Harry Smith, Slogan, "The First Broadcasting Station of the First City of the First State." Tues, Thurs, Sat, 8-11 pm. Sun, 10-12 mid. Eastern.

WDGY, Minneapolis, Minn. 260.7m-1150kc. 500 watts. Dr. George Young, Tues, 8:30-11:30 pm. Wed, 7-9 pm, 10-11. Thurs, 9-11 pm. Fri, 6-9 pm. Central.

WDDO, Chattanooga, Tenn. 245.3m-1220kc. 500 watts. Chattanooga Radio Co., Inc. Announcer, Earl W. Winger. Mon, Tues, Wed, Fri, 7 p.m. Sat, Sun, 9 pm. Central.

WDRN, New Haven, Conn. 275.1m-1090kc. 500 watts. Doolittle Radio Corp. Announcer, F. M. Doolittle. Mon, Wed, Fri, 7-9 pm. Sun, 11 am. Eastern.

WDWF, Crunston, R. I. 374.8m-800kc. 500 watts. Ducee W. Flint, Inc. Slogan, "Quality First." Eastern.

WDWM, Asbury Park, N. J. 361.2m-820kc. 500 watts. Radio Industries Broadcast Co. Announcer, Arthur B. Chace. Daily, 6-12 mid. Eastern.

WDZ, Tuscola, Ill. 277.6m-1080kc. 100 watts. James L. Bush, Announcer, G. K. Muir. Daily ex Sun, 9, 10, 10:30, 11, 11:30, 12 n, 12:30, 1, 1:15, 1:30, 2:45, grain, markets, livestock, markets. Central.

WEAF, New York, N. Y. 491.5m-610kc. 5,000 watts. National Broadcasting Co., Inc. Slogan, "The Voice to the Millions." Daily ex Sun, 6:45-8 am. 11-1:15 pm, 4-12 midnight, Sun, 2:10-15 pm. Eastern daylight.

WEAL, Ithaca, N. Y. 483.6m-620kc. 250 watts. Cornell University, Irregular.

WEAM, North Plainfield, N. J. 239.9m-1250kc. 250 watts. Borough of North Plainfield, Announcer, H. W. Blackford, Slogan, "America's Pioneer Municipal Broadcasting Station." Fri, 8-12 pm, concert. Sun, 11-12 noon, Eastern.

WEAN, Providence, R. I. 319m-940kc. 500 watts. The Shepard Stores, Announcer, Chester H. Miller, Slogan, "We Entertain a Nation." Daily ex Sun, 12-1 pm, 4-5, music, reports, weather, concert; 6:30-10:30. Sun, 10:45-11:30 am, 7:30-8:45 pm, church service. Eastern daylight.

WEAO, Columbus, Ohio. 282.8m-1060kc. 750 watts. Ohio State University, Announcer, Robert Coleman, Slogan, "Where Education Advances Ohio." Daily ex Sun, 9:30 am, 11:10, 1:15, 1:30, 4:10. Tues, 7 pm. Wed, Thurs, 8 pm. Eastern.

WEAR, Cleveland, Ohio. 399.3m-750kc. 1,000 watts. Willard Storage Battery Co. Daily ex Sun, 11:30 am, markets, 10, weather. Daily ex Sun, Sat, 3:30 pm, markets, weather. Eastern.

WEBC, Superior, Wis. Duluth, Minn. 241.8m-1240kc. 250 watts. Head-of-the-Lakes Radio Station. Daily ex Sun, 12:15 pm, 6, orchestra. Daily ex Sun, 10:30 am, 5 pm, 8, music. Central.

WEBE, Cambridge, Ohio. 247.8m-1210kc. 100 watts. Roy W. Waller, Fri, 7:30-9 pm. Sun, 7-8 pm. Eastern.

WEBH, Chicago, Ill. 365.6m-820kc. 2,000 watts. Edgewater Beach Hotel-Illerald-Examiner, Announcer, Robert Humel, Slogan, "The Voice of the Great Lakes." Daily ex Sun, 1:10-2, 3-4 pm, 5-5:45. Daily ex Sun, Sat, Mon, 7-8 pm, 9-11 Wed, Sat, 12-1 am, Sat, 7-8, 8-11, 11-2, Sat, 1-2, Sun, 5-6, twilight musicals; 6-7, 7-9. Central daylight.

WEBJ, New York, N. Y. 256.3m-1170kc. 500 watts. Third Avenue Railway Co. Announcer, H. A. Bruno, Slogan, "The Red Trolley Station." Tues, Fri, 7-9 pm. Wed, 8-10 pm. Eastern daylight.

WEBQ, Harrisburg, Ill. 223.7m-1340kc. 15 watts. The Radio Music Co. Announcer, Dr. H. J. Raley, Slogan, "The Voice from Egypt." Mon, Fri, 8-11 pm. Daily ex Sun, 7:15-7:30 pm, oews, weather. Sun, 3-4 pm, 7-8. Central.

WEBR, Buffalo, N. Y. 241.8m-1240kc. 200 watts. H. H. Howell, Slogan, "We Extend Buffalo's Regards." Daily ex Sun, 5:45-6:30 pm, leading stories; 6:30-11, 8:30-11, Sat, 9-11, Sun, 10:15 am, service; 12:3 pm, concert; 3-4; 7:15-9, service; 10-12, concert. Eastern.

WEBW, Beloit, Wis. 258.5m-1160kc. 500 watts. Beloit College, Announcer, Arthur Weiner. Wed, 8-9 pm; Sun, 4:30 pm. Central.

WEG, Chicago, Ill. 241.8m-1240kc. 500 watts. Edna Demark Broad. Station, Slogan, "It Won't Be Long Now." Announcer, Dave Edelson. Daily ex Sun, 2 pm, 5-7, Thurs, Sat, Sun, 11-12 mid. Wed, 4 pm, 6:30-10, 10, Thurs, 4 pm, 6:30-10:10, 10, Fri, 4 pm, 6:30-10, 10, Sun, 10:05 am, 12:30 pm, 2, 3, 5:30, 7:30, 9:30. Eastern daylight.

WEHS, Evanston, Ill. 215.7m-1390kc. 100 watts. Arthur T. Becker, Announcer, Joe Allabough.

WEMC, Berne, Springs, Mich. 240m-1260kc. 1,000 watts. Emmanuel Missionary College, Announcer, Paul N. Pearce, Slogan, "The Radio Lighthouse." Daily ex Sun, Sat, 8:05 am. Mon, Wed, 8:15 pm, Fri, 8:15 pm. Sun, 11 am, 8:15 pm. Central.

WENR, Chicago, Ill. 283.3m-1040kc. 500 watts. Commonwealth Edison Co. Daily ex Sun, 12-1 pm; 2-6, 6-7. Daily ex Mon, Sun, 8-10 pm. Sun, 3-4:30 pm, 9:30-11. Central daylight.

WEPB, Gloucester, Mass. 296.9m-1010kc. 100 watts. Matheson Radio Co., Inc.

WEW, St. Louis, Mo. 352.7m-850kc. 1,000 watts. St. Louis University, Announcer, J. V. Jacobsen. Daily ex Sun, 9 am, 10, 2, 5 pm, reports. Tues, Thurs, 7 pm, lectures, weather, silent Wed. Mon, 7-9, Central.

WFAP, Dallas, Tex. 409.7m-600kc. 500 watts. Dallas News and Dallas Journal, Slogan, "Working for All Alike." Daily, 6:30-7:30 am, exercises; 7:30, 8:30, 9:30, 10:30, 11:30, reports; music; 12:30, 1:30, 2:30, 3:30, 4:30, reports, news; 5:30, children's hour; 8:30-9:30, concert. Announcer, silent Wed. Mon, Tues, Thurs, Fri, Sat, 6:30-7:30 pm, vester recital, sports. Tues, Sat, 11-12 pm, music. Sun, 6-7 pm, Bible class; 7:30, church service; 8:30-9:30, 11-12, music. Central.

WFAM, St. Cloud, Minn. 252m-1190kc. 100 watts. St. Cloud Daily Times, Slogan, "Granite City of the North." Announcer, Otto A. Rupp. Daily ex Sun, 5:30 pm, markets. Central.

WFBC, Knoxville, Tenn. 234.2m-1280kc. 50 watts. First Baptist church, Announcer, St. John Reynolds. Sun, 10:45 am; 7:30 pm, services; 4 pm, sacred music. Central.

WFBE, Cincinnati, O. 245.8m-1220kc. 250 watts. Fifth Infantry, Announcer, Pat Gatriek. Daily ex Fri, 7:30 pm, 12 mid. Sun, 1-11 pm. Eastern.

WFBO, Allentown, Pa. 289.2m-1070kc. 100 watts. The Wm. F. Galt Co. Announcer, Roy E. Thompson, Slogan, "The Original Gateway to the West." Daily ex Sun, Mon, 12 n, 3 pm, 6:30, 7:30, 8, 8:30, 10 pm, 10:45 am, 2:30 pm, 7:30. Eastern.

WFBJ, Collegeville, Minn. 272.6m-1100kc. 100 watts. St. John's university, Announcer, Hilary Doerfler, Slogan, "In the Heart of the Landscape Paradise."

WFBL, Syracuse, N. Y. 258.5m-1160kc. 750 watts. Onondaga company, Announcer, Ernest E. Chappell. Daily ex Sun, 3 pm, 6:8, Mon, 9-10 pm. Tues, 8-10:30 pm. Thurs, 8-12:30 am. Fri, 8-11:30 pm, Sat, 10:30-12 mid. Sun, 3-9:30 pm. Eastern.

WFBM, Indianapolis, Ind. 225.4m-1330kc. 250 watts. Indianapolis Power and Light company, Announcer, Bailey Fesler, Slogan, "The Crossroads of America."

WFBR, Baltimore, Md. 225.4m-1330kc. 100 watts. Fifth Infantry, Maryland National Guard, Slogan, "Home of the Star Spangled Banner." Announcer, S. R. Kennard. Daily matinee programs. Tues, Thurs, Sat, evening programs. Sun, afternoon program. Eastern.

WFBZ, Galesburg, Ill. 247.8m-1210kc. 50 watts. Knox college, Announcer, George H. Strain, Slogan, "At Old Siasw." Wed, 8-10 pm. Central.

WFCL, Pawtucket, R. I. 255.4m-1330kc. 50 watts. Frank Crook, Inc. Announcer, E. Stafford, Slogan, "The City of Diversified Industries."

WFDF, Flint, Mich. 348.6m-850kc. 100 watts. Frank D. Fallain, Slogan, "The Motor City." Mon, Wed, Fri, 8-10:30. Eastern.

WFHH, Clearwater, Fla. 365.6m-820kc. 500 watts. Chamber of Commerce, Announcer, Walter Tison. Daily ex Sun, Sat, 8:30-10 pm. Eastern.

WFI, Philadelphia, Pa. 405.2m-740kc. 500 watts. Strawbridge & Clothier, Announcer, John Vander-sloot. Daily ex Sun, 10:15 am, reports; 1-1:30 pm, orchestra; 1:30, reports; 1:40-2, orchestra; 3-4:30, concert; 6:20, sports; 6:30-7:30, orchestra; Tues, Thurs, Sat, 8 pm. Alternating Sun, 10:30 am, 4 pm, 7:30 pm, service, 9:15. Eastern daylight.

WFIW, Hopkinsville, Ky. 280.2m-1070kc. 500-1,000 watts. Acme Mills, Inc. Announcer, Bob Riner. Mon, Sat, 8-11 pm. Wed, 8:30-11 pm. Fri, 8-11 am. Sun, 9:30-10:30 am, 9-10 pm. Daily ex Sun, 3-4 pm. Central.

WFKB, Chicago, Ill. 223.7m-1340kc. 500 watts. Francis K. Bridgman, Announcer, Horace Kelm. Daily ex Sun, Mon, 7-10 pm. Central.

WFKD, Philadelphia, Pa. 247.8m-1210kc. 100 watts. Foulkrod Radio Eog. Co.

WFLA, Boca Raton, Fla. 212.6m-1410kc. 1,000 watts. Boca Raton Radio Corp.

WFRL, Brooklyn, N. Y. 218.8m-1370kc. 250 watts. Flatbush Radio Laboratories.

WGAL, Lancaster, Pa. 252m-1190kc. 15 watts. Lancaster Elec. Supply & Construction Co. Announcer, Charles W. Peagley, Slogan, "World's Gardens at Lancaster." Tues, Thurs, Sat, 7-10:30 pm. Sun, 11 am. Eastern.

WGBB, Freeport, N. Y. 245.8m-1220kc. 400 watts. Harry H. Carman. Mon, Wed, Fri, 8-11 pm. Sun, 10-40 am, church. Eastern.

WGBE, Memphis, Tenn. 277.6m-1080kc. 15 watts. First Baptist church. Announcer, J. O. Boier. Sun, 9:55 am, 7:30 pm. Central.

WGBF, Evansville, Ind. 236.1m-1270kc. 250 watts. The Finke Furniture Co. Announcer, W. S. Morgan, Slogan, "The Gateway to the South." Daily ex Sun, 7:15 am, 12:10 pm, markets; 12:15, weather; 12:20, farm talk; 12:30, organ; news, Mon, 6:55 pm, baseball; 7:11:15, Tues, 1:15 pm, 7, 8. Wed, 2:30 pm. Fri, 1:15 pm, 8:30. Sun, 2 am. Central.

WGBI, Scranton, Pa. 230.6m-1300kc. 250 watts. Scranton Broadcasters, Inc.

WGBS, Astoria, N. Y. 348.6m-860kc. 500 watts. Gimbel Brothers, Announcer, Floyd Neale. Mon, Wed, 6-7 pm. Tues, Thurs, Sat, 7:30-11:30 pm. Sun, 8 pm. Eastern daylight.

WGCP, Newark, N. J. 280.2m-1070kc. 500 watts. Lanter Piano Co. Announcer, Bradford Browne. Daily, 4-5 pm, 6-11. Sun, 12-6 pm, 7-10. Eastern.

WGCS, Chicago, Ill. 241.8m-1240kc. 500 watts. Guyons Paradise Ballroom, Announcer, George Gubbins. Tues, Thurs, Sat, 6:15 pm, 8-1, Wed, Fri, 6:15 pm, 10-1, Sun, 10:15-11:30 am, 11:40-1 pm, 2:30-4, 6-7:15, 8-1. Central daylight.

WGHP, Mt. Clemens, Mich. 319m-940kc. 750 watts. George Harrison Phelps, Inc. Announcer, Harry C. Browne. Daily ex Sat, 6 pm. Eastern.

WGL, Secaucus, N. Y. 293.9m-1020kc. 500 watts. Broadcasting Corp.

WGM, Jenette, Pa. 208.2m-1440kc. 50 watts. Verne & Elton Spencer, Announcer, Verne Spencer, Slogan, "Voice from Glass City." Mon, Tues, Thurs, Fri, 7:30-9 pm. Sun, 1:30-4 pm. Eastern.

WGMU, New York, N. Y. 201.2m-1490kc. 100 watts. Atlantic Broadcasting Co.

WGN, Elgin, Ill. 305.9m-980kc. 15,000 watts. Chicago Tribune, Announcer, Bill Hay, Daily ex Sun, 9:24:5 am, news; 10:10:45; 11-11:30; 11:57-12:01, time; 12:01-12:30, music; 3-25; 3:30-4:15, tea time music; 4:30-5, organ; 5:30-5:57, Skeezix; 5:57-6:01, time; 6:20-6:30, louds; 6:30-7, music. Tues, Thurs, Fri, 11:30-11:57 am, household hints. Tues, Thurs, 12:30-12:40 am, farm talk. Tues, Wed, 3-3:25 pm, talks. Daily ex Sun, Mon, 8-11 pm. Sun, 12-1 pm, Uncle Walt, 1-2, organ; 2-3, Lyon and Healy; 3-5, orchestra; 6:15-6:45, 7-10:30. Central daylight.

WGR, Buffalo, N. Y. 302.8m-990kc. 750 watts. Federal Radio Corp. Announcer, Kenneth Fickett. Daily ex Sun, 5:45-6:45 am. Daily ex Sun, Sat, 12 n, stocks, markets; 1 pm; 2:30-4:30. Tues, Thurs, 7:10 pm. Mon, Wed, Fri, 7-12 mid. Sun, 10:45 am; 8:15-8:45. Eastern.

WGST, Atlanta, Ga. 270.1m-1110kc. 500 watts. Georgia School of Technology, Announcer, Walter W. Merkle, Slogan, "The Southern Technical School with a National Reputation."

WGWV, Milwaukee, Wis. 218.8m-1370kc. 500 watts. Radiocast Corp. of Wisconsin, Announcer, John Sullivan, Slogan, "Make Milwaukee Brighter." Daily ex Sun, 6:30-7:30 pm. Mon, 8-9 pm. Wed, 9-12:30 am. Sat, 9-12 mid. Central.

WGY, Schenectady, N. Y. 379.5m-790kc. 30,000 watts. General Electric Company, Announcer, Knitia Hager, Slogan, "Good Evening to You All." Daily ex Sun, 11:55 am, time; 12:01, weather; 12:02, produce; 12:06, police; 12:08, weather; 12:09, farm flashes; 12:30, stocks; 12:40, weather, 6, stocks. Tues, Wed, 6:30-11:30 pm. Mon, 6

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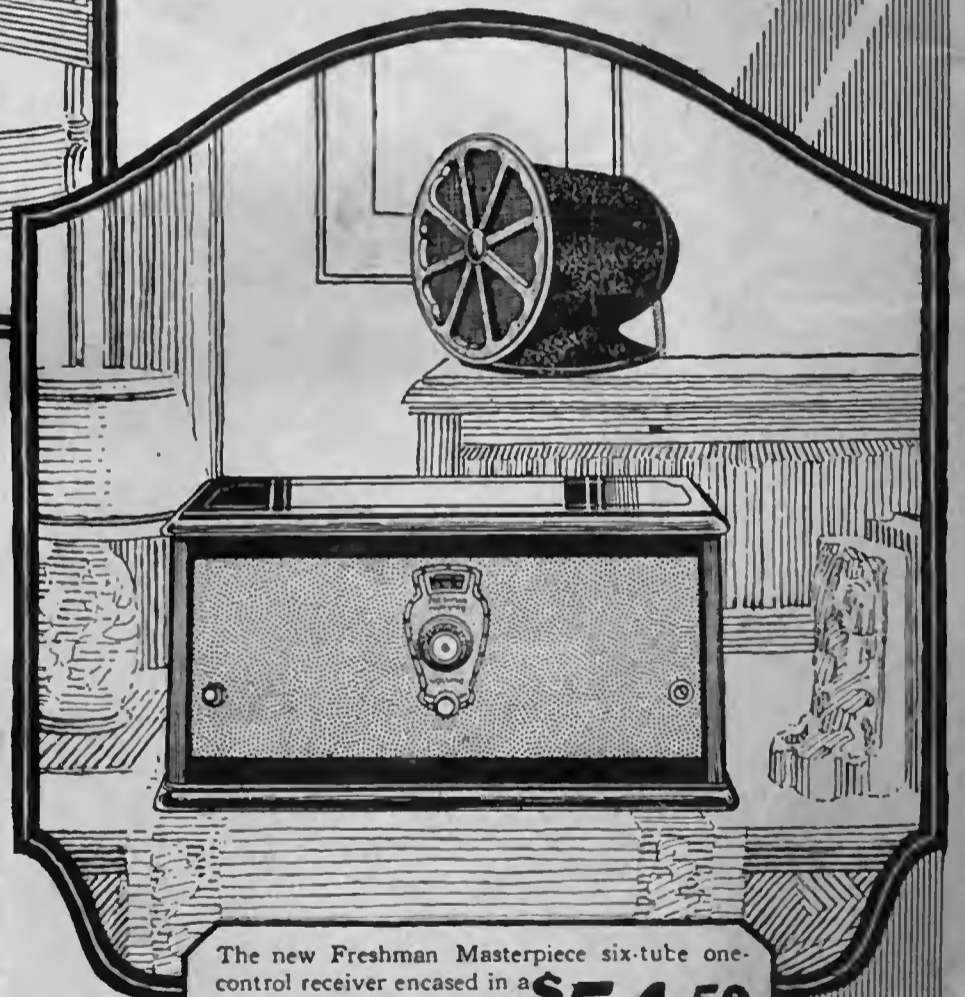
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